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Tables
of
Internal Conversion Coefficients
and
Particle Parameters
by

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ABSTRACT

The internal conversion coefficients and particle parameters of the K and L subshells have been recalculated for ten nuclei, i.e.

$$Z = 60, 64, 68, 72, 76, 80, 84, 88, 92 \text{ and } 96$$

and ten energies, i.e.

$$k = 0.02, 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.70, 1.00 m_e c^2.$$

The four lowest orders of electric and magnetic multipole transitions have been considered.

The internal conversion coefficients and particle parameters of the M-subshells have been computed for seven nuclei, i.e.

$$Z = 72, 76, 80, 84, 88, 92 \text{ and } 96$$

and for ten energies (see above).

The screening of the atomic electrons has been taken into account on the basis of the Thomas-Fermi-Dirac model.

All static and dynamic effects of the finite nuclear size have been taken into account, assuming a sharp nuclear edge.

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I: INTRODUCTION

The first tabulations of internal conversion coefficients ¹⁾ (ICC) and internal conversion particle parameters ^{2 - 4)} (PP) of the K-shell were prepared under the assumption of a point nucleus and a pure Coulomb field, i. e. no screening of the atomic electrons was taken into account. The latter restriction is, however, not very suitable for a comparison with the experimental data, especially for internal conversion processes in higher shells. Therefore, in subsequent tabulations ^{5 - 6)} screening was taken into account by the Thomas-Fermi-Dirac model.

The introduction of a more realistic nucleus with finite size removes the singularity in the potential at the origin. It also has drastic consequences for the behaviour of the electron wave functions at nuclear dimensions, as shown in full detail by Church and Weneser ⁷⁾. Since the near nuclear region contributes the main part to the internal conversion matrix elements, this so-called "static" effect of the finite nuclear size is not negligible and was taken into account in the calculations of Sliv-Band ⁵⁾ and of Rose ⁶⁾. The importance of another effect of the finite nuclear size was first pointed out by Church and Weneser ⁸⁾, namely that new matrix elements arise, which contain explicitly the nuclear transition current $\vec{j}_n$ and the nuclear transition charge p_n and which may contribute considerably to the conversion process in the case of hindered γ transitions. These effects are usually referred to as either dynamic or penetration effects. In the tabulations of Rose, penetration effects are neglected, while in those of Sliv they are taken into account on the basis of the so-called nuclear-surface-transition model. Dynamic corrections to the static ICC, where the nuclear model is not yet specified, were given by Green and Rose ⁹⁾ and by Church and Weneser ⁷⁾

for the K-shell conversion of E1, E2, M1, and M2 transitions.

Recently, Church¹⁰⁾ has published the corresponding values for the L-shell conversion, which are based on intermediate results of Sliv's calculations¹¹⁾. Together with the values of matrix elements and phases¹²⁾ of Sliv's calculations, all necessary data are available to account properly for all penetration effects in E1 transitions^{13), 14), 15)}.

It has been known¹⁶⁾, however, that the tabulations of Sliv-Band and of Rose may differ by amounts greater than their assigned limits of error. This fact cannot be understood alone by their different assumptions regarding the penetration effects. Nor can the typographical and interpolation errors explain all deviations, as a recalculation has shown. In ref.¹⁷⁾ the results of a partial recalculation are presented for some of the same nuclear charges and transition energies as were used by Sliv. Although the comparison with Sliv's or Rose's values was performed with their respective penetration models, discrepancies with our recalculated values were found. A similar recalculation was performed by Hager and Seltzer¹⁸⁾ for other nuclei and led to the same conclusions. These authors, however, used the non-relativistic Hartree-Fock method of screening¹⁹⁾.

We performed a recalculation of the K and L shell matrix elements and phases for 10 nuclei, i. e.,

$$Z = 60 - 96 \text{ in steps of } 4$$

and ten transition energies below 511 keV, i. e.,

$$k = 0.02, 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.70, 1.0 m_e c^2$$

In these calculations we have included the screening of the atomic electrons by the Thomas-Fermi-Dirac model²⁰⁾. All effects of the finite nuclear size, i. e., of a homogeneously charged sphere with the radius $R = 1.20 \cdot A^{1/3} \cdot 10^{-13}$ cm, were taken into account. It was our aim to

give a notation suitable for the user of these tables. Our notation is outlined in section II and differs from that of earlier authors.

Except for some recent and special internal conversion coefficients ²¹⁻²⁵⁾, the only M-shell tabulations available were those of Rose ⁶⁾ for a point-nucleus and a pure Coulomb field. Although some semi-empirical methods have been proposed ²⁶⁾ in order to remove this disadvantage and which have been found to be in astonishingly good agreement with the experimental data ²⁷⁾, it is desirable to deal with more generally correct values. Therefore, we have extended our calculations to the M-shell internal conversion for seven nuclei, i. e., for

$$Z = 72 - 96 \text{ in steps of } 4$$

with the same assumptions as for the L-shell. It should be noted that the penetration effect in the M-subshell conversion is at least as important as in the L-subshells ²⁴⁾.

While these tables were being prepared the extensive tabulations of Hager and Seltzer ²⁶⁾ came to our attention. In these calculations the screening was taken into account by relativistic Hartree-Fock-Slater calculations. This point will be further discussed in section IV.

The static internal conversion coefficients are presented in Table 1. The dynamic correction coefficients for the ICC are given in Table 2; the notation is explained in section II. With regard to the particle parameters, it is well known that the screening and static finite nuclear size effects are less important than for the ICC. Thus the screening and finite-size-corrected particle parameters for the K, L_1 and L_2 subshells ²⁸⁻²⁹⁾ are essentially the same as those in the case of a point nucleus and no screening ^{1 - 3)}. Even the L_3 particle parameters, as recently published ³⁰⁾, agree well with the unscreened values ³¹⁾. The penetration effects, however, may contribute considerably

to the static values ^{32,34,24}). In Table 3 the static values of the particle parameters are given for all K, L and M subshells. The dynamic corrections for the particle parameters are presented in Table 4 for the total shells only. The notation is explained in II.

In IV we discuss our numerical methods and physical assumptions.

Finally we would like to emphasize that the main purpose of these tables is to provide the nuclear physicist with exact information about internal conversion phenomena for a restricted number of nuclei (Z) and for some selected energies. The information contained in these tables should be adequate for the planning of experiments.

The final evaluations of experimental conversion data in a specific case requires that a computer calculation be performed for this specific case. The complete computer program will be published in the near future.

II: NOTATION FOR INTERNAL CONVERSION COEFFICIENTS AND PARTICLE PARAMETERS

In this section we give an outline of our notation, which is essentially the same as in our previous work ^{1?)}. All details can be found there.

2.1 Magnetic transitions

The internal conversion coefficient (ICC) of a subshell σ , i.e. $\sigma=K, L_1, L_2, \dots, M_5$ may be written for a magnetic transition of multipole order L (ML) as ^{1?)}

$$(1) \quad \beta(\sigma, L) = \beta^{(0)}(\sigma, L) \cdot \Delta(\sigma, ML)$$

where we have separated the "static" ICC $\beta^{(0)}(\sigma, L)$ from the penetration - or anomaly factor - $\Delta(\sigma, ML)$. The static ICC is the usual conversion coefficient, which includes also the static effects of the finite nuclear size and corresponds exactly to the ICC in the approximation used in Rose's tables ⁶⁾. The second term contains all the penetration effects and is defined by

$$(2) \quad \Delta(\sigma, ML) = 1 + c_1(\sigma) \cdot \lambda + c_2(\sigma) \cdot \lambda^2$$

The "electronic" or dynamic correction coefficients $c_1(\sigma)$ and $c_2(\sigma)$ are contributed to mainly by the electron wave functions and therefore depend on the particular subshell. The nuclear parameter λ contains all nuclear structure effects and is essentially the same for all subshells. The parameter λ is defined by

$$\lambda = \lambda_0 + F_1 \lambda_1 + F_2 \lambda_2$$

with

$$(3) \quad \lambda_m = \frac{\langle I_f \| \vec{J}_n \vec{L} \cdot \left(\frac{r}{R}\right)^{L+2m+2} i^{L_Y}_{LM} \| I_i \rangle}{\langle I_f \| \vec{J}_n \vec{L} \left(\frac{r}{R}\right)^L i^{L_Y}_{LM} \| I_i \rangle}$$

The above notation is only correct in the long wave length limit. Since we are dealing with rather small energies, this condition should always be fulfilled. In strongly hindered transitions the usual gamma transition amplitude, which is proportional to the denominator of λ_m , should be modified by taking into account higher terms. Such a modification can be done without any difficulty.

The quantities $F_1, F_2 \dots$ depend on the expansion coefficients of the electron wave function within the nucleus and are given in full detail in ref. 17. For M1 -transitions one obtains to a good approximation

$$(4a) \quad \begin{aligned} F_1 &= - \frac{1}{14} (1 + 12 \zeta) \\ F_2 &= + \frac{38}{189} \zeta (1 + \frac{81}{38} \zeta) \end{aligned}$$

and for M2 transitions

$$(4b) \quad \begin{aligned} F_1 &= - \frac{1}{12} (1 + 9 \zeta) \\ F_2 &= + \frac{266}{1485} \zeta (1 + \frac{27}{19} \zeta) \end{aligned}$$

where

$$\zeta = \frac{\alpha Z}{2}$$

is smaller than 0.1 in all cases of practical interest.

We should mention that the penetration factor contains, as usual ^{7), 10)}, only the dynamic contribution of the continuum state with the lowest spin j , which is given by

$$j = L - j_1$$

where j_1 is the spin of the bound state. Since j always has to be positive, λ disappears in some subshells. I. e., we have for M1-transitions

$$\lambda \equiv 0 \quad \text{and} \quad \Delta(\sigma, M1) \equiv 1 \quad \text{for} \quad \sigma = L_3, M_3, M_4, M_5$$

and for M2 transitions

$$\lambda \equiv 0 \quad \text{and} \quad \Delta(\sigma, M2) \equiv 1 \quad \text{for} \quad \sigma = M_5$$

For more details we refer to reference 17.

The nuclear parameters λ_i are identical to the penetration matrix element $\lambda_{J \cdot A}^{(i)}$ given by Church (eq. (44) of ref. 10).

The particle parameters may also depend on the nuclear structure. In analogy to eq. (1) we shall separate them for pure ML transitions

$$(5) \quad b_k(\sigma, ML) = b_k^{(o)}(\sigma, ML) \cdot \frac{\Gamma(\sigma, ML)}{\Delta(\sigma, ML)}$$

into a static part $b_2^{(o)}$ - the usual particle parameter containing the static effects of the finite nuclear size - and a penetration factor Γ/Δ , where Δ is given by eq. (2) and Γ is defined by

$$(6) \quad \Gamma(\sigma, ML) = 1 + q_1(\sigma) \cdot \lambda + q_2(\sigma) \cdot \lambda^2$$

The nuclear structure parameter is defined in eqs. (3 and 4), and the same

approximation is made as above. It should be noted that the penetration effects do not affect the well known recursion relations ²⁾ of the particle parameter in the K , L_1 , L_2 or M_1 , M_2 subshells.

For space reasons the present Tables are restricted to the anomaly factor F of the total K , L or M shell and to the lowest, i.e. the b_2 , particle parameter of dipole and quadrupole transitions. If more detailed data are needed they can be obtained from the author on request.

2.2 Electric transitions

For an electric transition of multipole order L (EL) the ICC may be written in analogy to eq. (1)

$$(7) \quad \alpha(\sigma, L) = \alpha^{(0)}(\sigma, L) = \alpha^{(0)}(\sigma, L) \cdot \Delta(\sigma, EL)$$

Again, the first term - the static ICC - corresponds to the model of Rose ⁶⁾, the penetration factor $\Delta(\sigma, EL)$ contains all penetration effects.

It is well known that in electric transitions there are two different nuclear parameters ^{7), 10)}, i.e. the nuclear "current" parameter η and the nuclear "charge" parameter ξ ¹⁷⁾. Therefore Δ looks somewhat more complicated in this case.

$$(8) \quad \Delta(\sigma, EL) = 1 + a_1(\sigma) \cdot \eta + a_2(\sigma) \cdot \eta^2 + a_3(\sigma) \cdot \eta \xi + a_4(\sigma) \cdot \xi + a_5(\sigma) \cdot \xi^2$$

with

$$(9a) \quad \eta = \frac{1}{1 + \gamma} \left[\eta_0 + D_1 \eta_1 + D_2 \eta_2 + \dots \right]$$

$$(9b) \quad \xi = \frac{1}{1 + \gamma} \left[\xi_0 + E_1 \xi_1 + E_2 \xi_2 + \dots \right]$$

and

$$(10 a) \quad \eta_m = \frac{\langle I_f \| j_n \cdot \left(\frac{r}{R}\right)^{L+1+2m} i^L Y_L \| I_i \rangle}{\langle I_f \| \rho_n \left(\frac{r}{R}\right)^L i^L Y_L \| I_i \rangle}$$

$$(10 b) \quad \xi_m = \frac{\langle I_f \| \rho_n \cdot \left(\frac{r}{R}\right)^{L+2+2m} i^L Y_L \| I_i \rangle}{\langle I_f \| \rho_n \left(\frac{r}{R}\right)^L i^L Y_L \| I_i \rangle}$$

The quantity

$$\gamma = \frac{kR}{L+1} \eta_0$$

can, in general, be neglected.

In the above equations j_n represents the radial component of the nuclear transition current $\vec{j}_n$, i.e.

$$j_n = i \vec{j}_n \cdot \frac{\vec{r}}{r}$$

and ρ_n is the nuclear transition charge. The quantities D and E are defined in ref. 17; a simple approximation is given below.

In contrast to the static ICC's or the particle parameters, not all continuum states which are possible by the selection rule contribute to the penetration factor. Concerning the current parameter, only those partial waves were taken into account whose total spin is

$$j = L - j_i$$

Therefore for E1 transitions the nuclear parameter η exists only in those shells where $j_i = \frac{1}{2}$, i. e. in the K, L₁, L₂, M₁, M₂ subshells. For E2 transitions η exists in all, except the M₅ subshells. For E3 and E4 transitions η is defined in all K, L and M subshells.

For the nuclear charge parameter ξ the situation is somewhat more complex, since the above-defined ξ is also connected with the partial waves of total spin

$$j = L + 1 - j_i$$

and thus ξ disappears only in the M₅ subshell conversion for E1 transitions.

A detailed investigation of the dynamic matrix elements shows however that, if both types of matrix elements are possible, the first one, i. e., with $j = L - j_i$, is larger by at least a factor of ten and thus the second one, with $j = L + 1 - j_i$, may be neglected. Only in those cases where the matrix element of the total spin $j = L - j_i$ is forbidden by selection rules, as for the

(11 a) L₃, M₃, M₄ subshell conversion in E1 transitions and the

(11 b) M₅ subshells conversion in E2 transitions,

or nearly cancelled, as for the

(11 c) K, L₁, L₂, M₁, M₂ subshell conversion in E1 transitions, the second - $j = L + 1 - j_i$ - term becomes important and is taken into account. The M₅ subshell conversion of E1 transition is independent of ξ .

Since the quantities E₁, E₂... depend on the total spin and since we want to

introduce penetration parameters that do not depend on the subshells, we redefine the charge parameters for the E1 "transition" as

$$(12) \quad \xi \equiv \xi_0$$

The restriction to the first term is, however, somewhat academic, since in these cases the electronic coefficients of the charge parameter ξ , i.e., a_3 , a_4 and a_5 , are usually small, so that their whole effect may be neglected. Finally we shall give the approximate expressions of the D's and E's in the same approximation as in the magnetic case (eq. 4). We have for E1 transitions

$$(13 a) \quad \begin{aligned} D_1 &= -2 \xi \\ D_2 &= +\frac{2}{5} \xi \cdot \left(1 + \frac{9}{2} \xi \right) \end{aligned}$$

and for E2 transitions

$$(13 b) \quad \begin{aligned} D_1 &= -\frac{9}{5} \xi & E_1 &= -\frac{1}{18} (1 + 9 \xi) \\ D_2 &= +\frac{96}{175} \xi \left[1 + \frac{81}{23} \xi \right] & E_2 &= \frac{16}{155} \xi \left(1 + \frac{27}{16} \xi \right) \end{aligned}$$

The latter equations do not apply for the M_5 subshell. For all further details we refer to ref. 17.

Corresponding to the magnetic case we separate the particle parameter of a pure E1 transition

$$(14) \quad b_k(\sigma, EL) = b_k^{(0)}(\sigma, EL) \cdot \frac{\Gamma(\sigma, EL)}{\Delta(\sigma, EL)}$$

into a static term $b_k^{(0)}$ and a penetration factor Γ/Δ . Γ is given by

$$(15) \quad \Gamma(\sigma, EL) = 1 + p_1(\sigma) \cdot \eta + p_2(\sigma) \cdot \eta^2 + p_3(\sigma) \cdot \eta \xi + p_4(\sigma) \cdot \xi + p_5(\sigma) \cdot \xi^2$$

and Δ by eq. (8).

The nuclear parameters η and ξ are defined in eqs. (9, 12). There is a simple connection between our notation in eq. (10) and that of Church ^{7), 10)} (eq. 42 of ref. ¹⁰⁾), i. e.

$$\frac{1}{kR} \sqrt{\frac{L}{L+1}} \eta_m = \lambda_{jr}^{(m)}$$

and

$$\sqrt{\frac{L}{L+1}} \xi_m = \lambda_{jv}^{(m)}$$

2.3 Transition of mixed multipoles

The internal conversion particle parameter of mixed multipole order transitions can be written as

$$b_k(\sigma, EL/ML^1) = b_k^{(0)}(\sigma, EL/ML^1) \cdot \frac{\Gamma(\sigma, EL/ML^1)}{\sqrt{\Delta(\sigma, EL) \cdot \Delta(\sigma, ML^1)}}$$

$b_k^{(0)}$ contains only the static effects of the finite nuclear size. The penetration factor Γ is defined as

$$\Gamma(\sigma, EL/ML^1) = 1 + x_1(\sigma) \cdot \eta + x_2(\sigma) \cdot \xi + x_3(\sigma) \cdot \lambda + x_4(\sigma) \cdot \eta \lambda + x_5(\sigma) \cdot \xi \cdot \lambda$$

while $\Delta(\sigma, ML^1)$ is defined in eq. (2) and $\Delta(\sigma, EL)$ in eq. (8).

The nuclear parameters η , ξ , λ are defined in eq. (9 a), (9 b), and (3) respectively. The dynamic coefficients $X_1, \dots, X_5$ are given in Table 4 for the total K, L and M shells.

III: NOTATIONS FOR THE WAVE FUNCTIONS

In this section we shall give a short review of the notations and conventions we have used.

The Dirac spinor Ψ is designated by

$$(16) \quad \Psi = \frac{1}{r} \begin{pmatrix} u_{\kappa}(r) \cdot \chi_{\kappa}^{\mu}(\theta, \varphi) \\ iS_{\kappa} v_{\kappa}(r) \cdot \chi_{-\kappa}^{\mu}(\theta, \varphi) \end{pmatrix}$$

where the χ 's represent the usual two component angular spinors.

The Dirac quantum number ²⁸⁾ is connected with the total spin j and the (non-relativistic) angular momentum ℓ by

$$(17) \quad \kappa = (j + \frac{1}{2})^{\ell} - \ell (\ell + 1)$$

The large and small radial components $u_{\kappa}(r)$ and $v_{\kappa}(r)$ respectively are solutions of the radial Dirac equation ³⁵⁾.

$$(18) \quad \frac{du_{\kappa}(r)}{dr} = -\frac{\kappa}{r} u_{\kappa}(r) + (W + 1 - V(r)) \cdot v_{\kappa}(r)$$

$$\frac{dv_{\kappa}(r)}{dr} = +\frac{\kappa}{r} v_{\kappa}(r) - (W - 1 - V(r)) \cdot u_{\kappa}(r)$$

Here W is the total energy and $V(r)$ is the potential of the electron, which is defined as

$$(19) \quad V(r) = \begin{cases} -\frac{Z\alpha}{r} & r \geq R \\ -\frac{Z\alpha}{r} \left[3 - \left(\frac{r}{R} \right)^2 \right] & r \leq R \end{cases}$$

The average potential of the electron in the field of all other atomic electrons is taken into account by the "screening function" ϕ , which was calculated in the Thomas-Fermi-Dirac-model²⁰⁾. It should be noted that we use the same potential for the bound as well as for the continuum states. The nucleus was assumed to be a homogeneously charged sphere with a sharp edge at

$$R = 1.20 \cdot A^{1/3} \cdot 10^{-13} \text{ cm} = 0.00311 \cdot A^{1/3}$$

Inside this nucleus the wave functions can be given by a potential series²⁸⁾. For

$$\kappa > 0, k = |\kappa| \quad \text{these look like}$$

$$(20) \quad u_{\kappa} = \left(\frac{r}{R}\right)^{k+1} \sum_{n=0}^{\infty} a_n \left(\frac{r}{R}\right)^{2n}, \quad v_{\kappa} = \left(\frac{r}{R}\right) \sum_{n=0}^{\infty} b_n \left(\frac{r}{R}\right)^{2n}$$

where a_n and b_n are given by the recursion relation

$$2k + 2n + 1) a_n = \left[R(W+1) + \frac{3\alpha Z}{2} \right] b_n - \frac{\alpha Z}{2} b_{n-1}$$

$$2(n+1) b_{n+1} = \left[R(W-1) + \frac{3\alpha Z}{2} \right] a_n + \frac{\alpha Z}{2} a_{n-1}$$

up to one undetermined coefficient.

For negative κ , i. e. for

$$\kappa < 0$$

similar expansions exist, i. e.

$$(22) \quad u_{\kappa} = \left(\frac{r}{R}\right)^k \sum_{n=0}^{\infty} b_n \left(\frac{r}{R}\right)^{2n}, \quad v_{\kappa} = \left(\frac{r}{R}\right)^{k+1} \sum_{n=0}^{\infty} a_n \left(\frac{r}{R}\right)^{2n}$$

The same recursion relation for the a's and b's can be used, however, Z and W have to be replaced by their negatives in eq. (21).

We have used a_0 as a free parameter and fixed it to be

$$a_0 = -C$$

The normalization constant C is fixed by the conditions

$$\int_0^{\infty} (u^2 + v^2) dr = 1$$

for the bound states and

$$u_{\kappa}(r) \longrightarrow \cos(pr + \delta_{\kappa}(Z) + \ell(\ell+1) \cdot \frac{\pi}{2})$$

$$v_{\kappa}(r) \longrightarrow -\sin(pr + \delta_{\kappa}(Z) + \ell(\ell+1) \cdot \frac{\pi}{2})$$

for the continuum states. The momentum p is given by $p = \sqrt{W^2 - 1}$ and the Coulomb phase by $\delta_{\kappa}(Z)$. The normalization of the continuum states corresponds to the energy normalization, i. e., one particle per energy unit.

IV: NUMERICAL METHODS AND PHYSICAL MODELS

As far as the error limits of the present tabulation are concerned, one should distinguish between the numerical errors which arise from the numerical methods used and from the computer program, and the "physical" errors which are introduced by our physical model, such as the assumed homogeneous charge distribution of the nucleus and the TFD model of screening.

We consider first the numerical errors. When we constructed the program, it was our aim to obtain the wave functions and the binding energies to at least four significant digits.

Obviously, the choice of the step length is a very important point. Since there is an optimal step length h for every value of the nuclear charge Z , we have used h as an input variable in the program. For a medium heavy Z , i.e. for $Z = 80$, we have chosen a value of $h = 0.1$. It is well known that a fairly accurate integration of the Dirac equation near the origin demands extremely small step lengths.

Instead of the logarithmic scale, which is often used^{21), 37)}, we have proceeded as follows. Starting at the nuclear edge we perform:

1. 4 steps with a steplength of $h/128$ in the Runge-Kutta scheme³⁸⁾
2. 60 steps " " " " $h/128$ in the Adams-Moulton-Bashfort scheme³⁸⁾
3. 32 steps " " " " $h/64$ " " " " " "
4. 32 steps " " " " $h/32$ " " " " " "
5. 32 steps " " " " $h/16$ " " " " " "
6. 32 steps " " " " $h/8$ " " " " " "
7. 32 steps " " " " $h/4$ " " " " " "
8. 32 steps " " " " $h/2$ " " " " " "

Then we continued with the standard wavelength h throughout. This procedure was checked by comparison with the pure Coulomb-field wave functions for both the bound state and the continuum state, and the imposed error limit was verified.

In order to obtain the bound state wave functions and eigenvalues, a method described by Rose ^{34), 6)} was followed. Designating the left-hand solutions of the Dirac equation at the matching point r_0 by the index L and the right-hand solutions by the index R , the condition for the eigenvalue and the eigenfunctions is given by

$$\chi(r_0, W) = \frac{\left(\frac{u}{v}\right)_{L, r=r_0}}{\left(\frac{u}{v}\right)_{R, r=r_0}} - 1 = 0$$

We stopped the iteration when χ was less or equal to 10^{-4} . In addition to the step length the accuracy of the wave functions is also limited by the choice of r_0 . We found, by some experimentation, that the calculation was stable and exact, as compared to the pure Coulomb-field solutions, if r_0 is slightly inside the classical limit. In this way the above imposed error limit has not been exceeded.

The main contribution to the error of the matrix elements is connected with the normalization of the continuum wave functions. Instead of the "standard" method ⁶⁾, we have used a modified one described elsewhere ^{1?)}. Both methods lead to the same results, the latter, however, in a considerable shorter time. The usual ripple, i. e., the small oscillation of the normalization constant around the final value, was restricted to less than 0.3 percent over two wavelengths. Finally the phase and the normalization were averaged over one wavelength. Thus, the normalization error contributes an error of about 0.6 percent to the ICC and even less to the particle parameter.

The numerical integration of the radial integrals was performed by the use of Simpson's rule and the numerical error was verified to be less than 10^{-3} .

Finally the total numerical error for the conversion coefficients is assumed to be about or less than one percent. This has been checked by comparing our values of ICC in the pure Coulomb field with those obtained by earlier authors ¹⁾.

The discussion of the errors introduced by the physical models we used is somewhat more complex. The handling of the screening is a very important problem. It can be assumed that the screening mainly affects the bound state wave functions and eigenvalues. Since we have no "true" wave functions, the difference in the experimental and the calculated binding energies may be used as a first indicator of the validity of the screening model. Thus, comparing the calculated and experimental ³⁹⁾ eigenvalues, the Thomas-Fermi-Dirac model gives more accurate values as the nuclear charge increases, and is more accurate for the K shell than for the M shell, as expected. The deviation of the K shell binding energies from the experimental values may vary between 1.3 percent at $Z=60$ and 0.85 percent at $Z=95$; that of the L shell between about 5 percent at $Z=60$ and about 0.03 percent at $Z=96$, and finally that of the M shell between about 7 percent at $Z=72$ and about 2 percent at $Z=95$.

On the basis of variational calculations ⁴¹⁾ we estimate that the error of the ICC introduced by the Thomas-Fermi-Dirac method is about half as large or less than the error of the corresponding binding energies. Obviously, the subshell ratios of internal conversion coefficients are less sensitive to the assumed screening function. Finally, the particle parameters and the dynamic

correction coefficients are nearly independent of the assumed screening function. It should be mentioned that there is a very good agreement between our TFD-values and those of Borisoglebskij ²¹⁾ ($Z = 80$), who used a screening function obtained by relativistic Hartree-Fock calculations, but without the Slater exchange term. His binding energies are obviously more similar to our TFD values than to those of the most exact calculations ²³⁾, available today.

Hager and Seltzer's ²⁶⁾ assumptions differ in more than one respect from ours. a) They included the screening by relativistic Hartree-Fock-Slater calculations. Our results should differ from theirs within the above discussed limits. b) We have computed the energy of the outgoing electron by using the calculated binding energies. Hager and Seltzer have employed the experimental energy values. Near threshold this has drastic consequences, but for larger energies of the ejected electron - say about 100 keV - this difference becomes more insignificant.

It is well known that the assumption of a homogeneously charged nucleus with a sharp edge, is not very realistic. However, as discussed by Church and Weneser ⁷⁾, the details of the static nuclear charge distribution are not very effective in internal conversion calculations, and therefore Hager and Seltzer's use of a nucleus with a Fermi charge distribution should be without consequence for the static part of the internal conversion coefficient.

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V: TABLES

The notation used in these tables is explained in II. All numbers are written in the "Floating point" convention,

$$\text{i. e. } -.279-03 \equiv -0.000279$$

The interpolation of the required data should cause no difficulties. For several cases of K, L and M shell conversion we have compared the interpolated values with the specifically calculated data and found the agreement to be better than three significant digits. For this comparison we used the three point interpolational formula. As recommended by Rose 6) we have used a semilogarithmic scale for the Z-interpolation and a log-log scale for the energy interpolation.

TABLE 1.1
=====

INTERNAL CONVERSION COEFFICIENTS
(STATIC)
OF THE K AND L SHELL

TABLE 1.1.01

Z=60

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.10	.130+01	.486+01	.969+01	.166+02	.863+01	.130+03	.575+03	.150+04
.15	.450-00	.243+01	.100+02	.397+02	.264+01	.289+02	.176+03	.953+03
.20	.207-00	.112+01	.496+01	.212+02	.116+01	.101+02	.595+02	.333+03
.30	.687-01	.332-00	.136+01	.547+01	.368-00	.236+01	.119+02	.588+02
.40	.316-01	.135-00	.503-00	.183+01	.166-00	.871-00	.381+01	.163+02
.50	.175-01	.675-01	.230-00	.769-00	.911-01	.413-00	.159+01	.607+01
.70	.748-02	.246-01	.733-01	.214-00	.375-01	.140-00	.448-00	.142+01
1.00	.321-02	.916-02	.237-01	.600-01	.150-01	.470-01	.125-00	.327-00
L1 - SUBSHELL								
.02	.381+01	.412+03	.477+05	.156+07	.129+03	.422+05	.296+07	.866+08
.05	.612-00	.971-00	.324+03	.196+05	.840+01	.622+03	.203+05	.531+06
.10	.121+00	.475-00	.347+01	.179+03	.109+01	.305+02	.539+03	.878+04
.15	.439-01	.210-00	.872-00	.125+02	.334-00	.569+01	.703+02	.834+03
.20	.209-01	.101+00	.417-00	.297+01	.146-00	.180+01	.174+02	.165+03
.30	.727-02	.324-01	.129-00	.610-00	.463-01	.380-00	.262+01	.178+02
.40	.344-02	.139-01	.515-01	.210-00	.209-01	.133-00	.726-00	.396+01
.50	.194-02	.723-02	.250-01	.919-01	.114-01	.605-01	.280-00	.128+01
.70	.844-03	.276-02	.849-02	.269-01	.467-02	.195-01	.713-01	.257-00
1.00	.367-03	.106-02	.237-02	.776-02	.186-02	.630-02	.184-01	.529-01
L2 - SUBSHELL								
.02	.547+01	.211+05	.554+07	.343+09	.120+02	.169+04	.778+05	.230+07
.05	.346-00	.224+03	.255+05	.132+07	.735-00	.466+02	.180+04	.586+05
.10	.369-01	.768+01	.451+03	.144+05	.905-01	.306+01	.741+02	.156+04
.15	.962-02	.111+01	.440+02	.102+04	.267-01	.632-00	.112+02	.176+03
.20	.368-02	.236-00	.564+01	.159+03	.113-01	.208-00	.294+01	.372+02
.30	.949-03	.440-01	.915-00	.121+02	.339-02	.443-01	.456-00	.420+01
.40	.367-03	.121-01	.194-00	.204+01	.145-02	.151-01	.124+00	.920-00
.50	.178-03	.454-02	.601-01	.530-00	.754-02	.660-02	.461-01	.290-00
.70	.612-04	.109-02	.108-01	.745-01	.283-03	.195-02	.107-01	.531-01
1.00	.205-04	.254-03	.193-02	.103-01	.101-03	.351-03	.240-02	.944-02
L3 - SUBSHELL								
.02	.916+01	.319+05	.857+07	.580+09	.248+01	.283+05	.352+08	.600+10
.05	.521-00	.311+03	.344+05	.176+07	.149-00	.295+03	.818+05	.608+07
.10	.513-01	.957+01	.526+03	.163+05	.179-01	.948+01	.985+03	.390+05
.15	.128-01	.126+01	.460+02	.102+04	.523-02	.129+01	.802+02	.222+04
.20	.474-02	.303-00	.822+01	.143+03	.219-02	.315-00	.141+02	.303+03
.30	.117-02	.414-01	.740-00	.911+01	.651-03	.443-01	.129+01	.197+02
.40	.441-03	.103-01	.137-00	.132+01	.277-03	.112-01	.246-00	.300+01
.50	.210-03	.357-02	.378-01	.300-00	.144-03	.394-02	.698-01	.722-00
.70	.708-04	.755-03	.566-02	.339-01	.546-04	.835-03	.110-01	.894-01
1.00	.237-04	.157-03	.824-03	.371-02	.201-04	.170-03	.164-02	.106-01
TOTAL L - SHELL								
.02	.184+02	.534+05	.142+08	.925+09	.143+03	.722+05	.382+08	.609+10
.05	.148+01	.536+03	.602+05	.311+07	.928+01	.963+03	.104+06	.667+07
.10	.209-00	.177+02	.980+03	.309+05	.119+01	.430+02	.160+04	.493+05
.15	.663-01	.258+01	.908+02	.206+04	.366-00	.760+01	.162+03	.323+04
.20	.293-01	.690-00	.173+02	.305+03	.159-00	.232+01	.344+02	.504+03
.30	.939-02	.118+00	.178+01	.218+02	.504-01	.469-00	.436+01	.417+02
.40	.425-02	.363-01	.383-00	.357+01	.226-01	.159-00	.110+01	.787+01
.50	.233-02	.153-01	.123+00	.922-00	.123-01	.710-01	.396-00	.230+01
.70	.976-03	.460-02	.250-01	.135-00	.501-02	.223-01	.930-01	.400-00
1.00	.411-03	.147-02	.562-02	.218-01	.198-02	.702-02	.225-01	.729-01

TABLE 1.1.02

Z=64

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.15	.496-00	.215+01	.683+01	.207+02	.377+01	.392+02	.198+03	.846+03
.20	.231-00	.109+01	.410+01	.152+02	.164+01	.137+02	.724+02	.353+03
.30	.781-01	.343-00	.129+01	.478+01	.520-00	.322+01	.152+02	.696+02
.40	.364-01	.144-00	.505-00	.175+01	.234-00	.119+01	.494+01	.201+02
.50	.204-01	.739-01	.241-00	.775-00	.128-00	.564-00	.209+01	.762+01
.70	.879-02	.278-01	.807-01	.230-00	.523-01	.191-00	.593-00	.181+01
1.00	.382-02	.107-01	.274-01	.685-01	.208-01	.639-01	.167-00	.426-00
L1 - SUBSHELL								
.05	.639-00	.212+01	.540+03	.263+05	.125+02	.963+03	.305+05	.746+06
.10	.132-00	.382-00	.677+01	.319+03	.160+01	.462+02	.800+03	.126+05
.15	.490-01	.192-00	.100+01	.224+02	.492-00	.853+01	.103+03	.120+04
.20	.237-01	.988-01	.420-00	.442+01	.214-00	.268+01	.254+02	.234+03
.30	.839-02	.339-01	.132-00	.733-00	.678-01	.559-00	.379+01	.254+02
.40	.403-02	.152-01	.554-01	.245-00	.305-01	.194-00	.105+01	.562+01
.50	.230-02	.809-02	.278-01	.108+00	.165-01	.877-01	.402-00	.182+01
.70	.101-02	.321-02	.989-02	.523-01	.674-02	.281-01	.102+00	.364-00
1.00	.447-03	.128-02	.348-02	.961-02	.266-02	.899-02	.261-01	.744-01
L2 - SUBSHELL								
.02	.633+01	.306+05	.765+07	.345+09	.181+02	.239+04	.795+05	.139+07
.05	.425-00	.325+03	.363+05	.175+07	.112+01	.673+02	.242+04	.715+05
.10	.475-01	.112+02	.651+03	.200+05	.139-00	.452+01	.104+03	.211+04
.15	.126-01	.163+01	.641+02	.145+04	.414-01	.942-00	.161+02	.244+03
.20	.492-02	.422-00	.127+02	.228+03	.176-01	.313-00	.428+01	.525+02
.30	.130-02	.656-01	.136+01	.177+02	.533-02	.674-01	.675-00	.607+01
.40	.510-03	.181-01	.291-00	.301+01	.230-02	.231-01	.186-00	.135+01
.50	.250-03	.684-02	.907-01	.790-00	.120-02	.102-01	.696-01	.429-00
.70	.872-04	.165-02	.165-01	.112+00	.453-03	.304-02	.164-01	.759-01
1.00	.297-04	.390-03	.297-02	.158-01	.163-03	.869-03	.373-02	.144-01
L3 - SUBSHELL								
.02	.106+02	.448+05	.117+08	.625+09	.337+01	.459+05	.624+08	.104+11
.05	.629-00	.436+03	.472+05	.227+07	.202-00	.477+03	.141+06	.103+08
.10	.641-01	.134+02	.728+03	.217+05	.243-01	.153+02	.166+04	.650+05
.15	.162-01	.177+01	.638+02	.138+04	.711-02	.208+01	.134+03	.365+04
.20	.606-02	.426-00	.115+02	.194+03	.259-02	.506-00	.233+02	.496+03
.30	.152-02	.583-01	.103+01	.125+02	.687-03	.707-01	.210+01	.319+02
.40	.578-03	.145-01	.192-00	.181+01	.378-03	.178-01	.398-00	.483+01
.50	.277-03	.504-02	.532-01	.415-00	.196-03	.620-02	.112+00	.116+01
.70	.941-04	.106-02	.798-02	.473-01	.745-04	.130-02	.175-01	.142-00
1.00	.316-04	.221-03	.116-02	.520-02	.273-04	.260-03	.259-02	.168-01
TOTAL L - SHELL								
.05	.169+01	.763+03	.841+05	.404+07	.138+02	.151+04	.174+06	.112+08
.10	.244-00	.250+02	.139+04	.420+05	.177+01	.661+02	.257+04	.798+05
.15	.778-01	.359+01	.129+03	.285+04	.541-00	.115+02	.253+03	.509+04
.20	.347-01	.946-00	.246+02	.427+03	.235-00	.350+01	.530+02	.783+03
.30	.112-01	.158-00	.253+01	.309+02	.740-01	.698-00	.657+01	.634+02
.40	.511-02	.478-01	.539-00	.507+01	.331-01	.235-00	.163+01	.118+02
.50	.282-02	.200-01	.172-00	.131+01	.180-01	.104+00	.584-00	.341+01
.70	.120-02	.592-02	.344-01	.192-00	.727-02	.324-01	.136-00	.586-00
1.00	.509-03	.189-02	.762-02	.306-01	.285-02	.101-01	.324-01	.106+00

TABLE 1.1.03

Z=68

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.15	.538-00	.177+01	.396+01	.828+01	.531+01	.523+02	.208+03	.637+05
.20	.256-00	.101+01	.318+01	.986+01	.232+01	.185+02	.846+02	.351+03
.30	.878-01	.346-00	.118+01	.403+01	.731-00	.436+01	.190+02	.797+02
.40	.414-01	.152-00	.499-00	.165+01	.329-00	.162+01	.632+01	.242+02
.50	.234-01	.797-01	.248-00	.769-00	.179-00	.765-00	.270+01	.939+01
.70	.102-01	.311-01	.880-01	.246-00	.726-01	.258-00	.776-00	.229+01
1.00	.451-02	.124-01	.314-01	.778-01	.286-01	.864-01	.220-00	.547-00
L1 - SUBSHELL								
.05	.662-00	.501+01	.819+03	.325+05	.183+02	.148+04	.453+05	.102+07
.10	.143-00	.325-00	.131+02	.316+03	.236+01	.697+02	.117+04	.178+05
.15	.540-01	.173-00	.148+01	.393+02	.722-00	.127+02	.151+03	.170+04
.20	.265-01	.949-01	.494-00	.722+01	.314-00	.395+01	.369+02	.332+03
.30	.959-02	.350-01	.144-00	.995-00	.989-01	.817-00	.546+01	.359+02
.40	.466+02	.164-01	.612-01	.302-00	.443-01	.281-00	.150+01	.792+01
.50	.269-02	.899-02	.315-01	.133-00	.240-01	.127-00	.572-00	.257+01
.70	.121-02	.371-02	.115-01	.399-01	.970-02	.402-01	.144-00	.510-00
1.00	.540-03	.153-02	.424-02	.121-01	.380-02	.128-01	.368-01	.104+00
L2 - SUBSHELL								
.05	.517-00	.468+03	.507+05	.224+07	.170+01	.966+02	.314+04	.837+05
.10	.599-01	.162+02	.923+03	.273+05	.213-00	.658+01	.145+03	.277+04
.15	.163-01	.236+01	.921+02	.201+04	.637-01	.138+01	.228+02	.332+03
.20	.646-02	.615-00	.184+02	.322+03	.272-01	.464-00	.614+01	.726+02
.30	.174-02	.966-01	.199+01	.253+02	.831-02	.101+00	.984-00	.863+01
.40	.695-03	.269-01	.430-00	.437+01	.360-02	.350-01	.274-00	.195+01
.50	.344-03	.102-01	.135-00	.116+01	.189-02	.156-01	.104+00	.626-00
.70	.122-03	.248-02	.249-01	.167-00	.720-03	.468-02	.247-01	.118+00
1.00	.423-04	.591-03	.452-02	.238-01	.280-03	.136-02	.570-02	.217-01
L3 - SUBSHELL								
.05	.745-00	.602+03	.636+05	.285+07	.269-00	.762+03	.238+06	.171+08
.10	.782-01	.185+02	.988+03	.283+05	.324-01	.243+02	.274+04	.106+06
.15	.201-01	.245+01	.870+02	.182+04	.951-02	.329+01	.219+05	.589+04
.20	.760-02	.590-00	.157+02	.258+03	.399-02	.800-00	.377+02	.795+03
.30	.194-02	.809-01	.142+01	.167+02	.119-02	.111+00	.336+01	.507+02
.40	.742-03	.202-01	.265-00	.245+01	.506-03	.276-01	.633-00	.763+01
.50	.358-03	.699-02	.734-01	.563-00	.263-03	.962-02	.178-00	.182+01
.70	.123-03	.148-02	.111-01	.645-01	.996-04	.199-02	.275-01	.222-00
1.00	.414-04	.305-03	.161-02	.716-02	.364-04	.393-03	.402-02	.260-01
TOTAL L - SHELL								
.05	.192+01	.108+04	.115+06	.512+07	.202+02	.234+04	.286+06	.182+08
.10	.281-00	.351+02	.192+04	.561+05	.260+01	.101+03	.406+04	.127+06
.15	.905-01	.499+01	.181+03	.387+04	.796-00	.174+02	.392+03	.792+04
.20	.406-01	.130+01	.346+02	.587+03	.345-00	.521+01	.807+02	.120+04
.30	.133-01	.212-00	.356+01	.431+02	.108+00	.103+01	.981+01	.953+02
.40	.610-02	.634-01	.756-00	.713+01	.484-01	.344-00	.241+01	.175+02
.50	.339-02	.262-01	.240-00	.165+01	.262-01	.152-00	.854-00	.501+01
.70	.145-02	.766-02	.476-01	.271-00	.105-01	.469-01	.196-00	.851-00
1.00	.624-03	.243-02	.104-01	.430-01	.410-02	.145-01	.465-01	.152-00

TABLE 1.1.04

Z=72

100 K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.15	.578-00	.131+01	.170+01	.194+01	.746+01	.689+02	.197+03	.355+03
.20	.279-00	.898-00	.227+01	.565+01	.326+01	.246+02	.952+02	.319+03
.30	.977-01	.342-00	.105+01	.328+01	.103+01	.585+01	.232+02	.879+02
.40	.466-01	.157-00	.482-00	.150+01	.460-00	.217+01	.795+01	.283+02
.50	.266-01	.849-01	.253-00	.757-00	.249-00	.103+01	.345+01	.113+02
.70	.118-01	.345-01	.954-01	.262-00	.101+00	.347-00	.100+01	.285+01
1.00	.528-02	.143-01	.359-01	.882-01	.394-01	.116+00	.287-00	.695-00
L1 - SUBSHELL								
.05	.676-00	.103+02	.115+04	.374+05	.268+02	.225+04	.662+05	.135+07
.10	.152-00	.350-00	.233+02	.772+03	.345+01	.104+03	.171+04	.247+05
.15	.590-01	.161-00	.249+01	.648+02	.105+01	.187+02	.218+03	.237+04
.20	.294-01	.916-01	.688-00	.119+02	.459-00	.580+01	.530+02	.466+03
.30	.108-01	.362-01	.170-00	.146+01	.144-00	.119+01	.781+01	.503+02
.40	.535-02	.176-01	.712-01	.416-00	.643-01	.405-00	.213+01	.111+02
.50	.312-02	.997+02	.369-01	.172-00	.348-01	.182-00	.810-00	.359+01
.70	.142-02	.429-02	.140-01	.509-01	.140-01	.574-01	.203-00	.711-00
1.00	.647-03	.183-02	.523-02	.154-01	.543-02	.181-01	.516-01	.144-00
L2 - SUBSHELL								
.05	.616-00	.666+03	.696+05	.280+07	.257+01	.137+03	.399+04	.933+05
.10	.745-01	.232+02	.130+04	.364+05	.324-00	.948+01	.196+03	.356+04
.15	.208-01	.340+01	.131+03	.276+04	.977-01	.202+01	.317+02	.443+03
.20	.834-02	.890-00	.263+02	.447+03	.419-01	.681-00	.867+01	.989+02
.30	.230-02	.141-00	.288+01	.358+02	.129-01	.151-00	.141+01	.121+02
.40	.933-03	.394-01	.628-00	.626+01	.563-02	.525-01	.399-00	.276+01
.50	.467-03	.150-01	.198-00	.167+01	.296-02	.235-01	.152-00	.899-00
.70	.169-03	.368+02	.370-01	.245-00	.114-02	.715-02	.368-01	.173-00
1.00	.594-04	.886-03	.680-02	.354-01	.414-03	.209-02	.861-02	.373-01
L3 - SUBSHELL								
.05	.870-00	.825+03	.847+05	.348+07	.354-00	.119+04	.395+06	.279+08
.10	.938-01	.254+02	.132+04	.361+05	.427-01	.381+02	.446+04	.169+06
.15	.245-01	.336+01	.117+03	.236+04	.125-01	.514+01	.351+03	.935+04
.20	.938-02	.808-00	.211+02	.337+03	.525-02	.125+01	.601+02	.125+04
.30	.242-02	.111+00	.192+01	.221+02	.156-02	.172-00	.530+01	.792+02
.40	.937-03	.277-01	.359-00	.325+01	.667-03	.428-01	.991-00	.118+02
.50	.454-03	.959-02	.997-01	.751-00	.346-03	.147-01	.277-00	.281+01
.70	.157-03	.202-02	.151-01	.866-01	.131-03	.302-02	.425-01	.342-00
1.00	.533-04	.416-03	.220-02	.967-02	.478-04	.588-03	.617-02	.398-01
TOTAL L - SHELL								
.05	.216+01	.150+04	.156+06	.631+07	.297+02	.358+04	.465+06	.293+08
.10	.321-00	.490+02	.264+04	.734+05	.382+01	.152+03	.637+04	.198+06
.15	.104+00	.692+01	.250+03	.518+04	.116+01	.259+02	.601+03	.122+05
.20	.471+01	.179+01	.481+02	.796+03	.506-00	.772+01	.122+03	.182+04
.30	.156-01	.288-00	.498+01	.594+02	.158-00	.151+01	.145+02	.142+03
.40	.722-02	.847-01	.106+01	.993+01	.706-01	.501-00	.352+01	.257+02
.50	.404-02	.346-01	.335-00	.260+01	.381-01	.220-00	.124+01	.730+01
.70	.175-02	.999-02	.660-01	.382-00	.152-01	.676-01	.282-00	.123+01
1.00	.760-03	.313-02	.142-01	.605-01	.589-02	.208-01	.664-01	.217-00

TABLE 1.1.05

Z=76

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.15	.613-00	.796-00	.306-00	.626-01	.105+02	.896+02	.153+03	.823+02
.20	.300-00	.755-00	.144+01	.269+01	.457+01	.323+02	.101+03	.256+03
.30	.108+00	.330-00	.906-00	.255+01	.144+01	.777+01	.277+02	.931+02
.40	.520-01	.160-00	.459-00	.135+01	.642-00	.289+01	.984+01	.323+02
.50	.300-01	.894-01	.254-00	.739-00	.347-00	.137+01	.434+01	.134+02
.70	.135-01	.380-01	.103+00	.279-00	.140-00	.465-00	.129+01	.350+01
1.00	.614-02	.163-01	.409-01	.999-01	.543-01	.156-00	.373-00	.873-00
L1 - SUBSHELL								
.05	.681-00	.189+02	.151+04	.398+05	.391+02	.340+04	.955+05	.173+07
.10	.161-00	.510-00	.385+02	.108+04	.505+01	.154+03	.246+04	.339+05
.15	.638-01	.166-00	.424+01	.101+03	.154+01	.276+02	.312+03	.329+04
.20	.323-01	.920-01	.107+01	.190+02	.671-00	.849+01	.757+02	.647+03
.30	.122-01	.378-01	.223-00	.222+01	.210-00	.172+01	.111+02	.700+02
.40	.609-02	.191-01	.883-01	.591-00	.934-01	.584-00	.302+01	.154+02
.50	.360-02	.111-01	.452-01	.235-00	.504-01	.261-00	.114+01	.498+01
.70	.167-02	.497-02	.172-01	.670-01	.201-01	.818-01	.285-00	.986-00
1.00	.770-03	.220-02	.654-02	.200-01	.777-02	.256-01	.721-01	.200-00
L2 - SUBSHELL								
.05	.724-00	.942+03	.947+05	.338+07	.389+01	.191+03	.492+04	.984+05
.10	.916-01	.330+02	.180+04	.479+05	.494-00	.136+02	.263+03	.445+04
.15	.262-01	.486+01	.183+03	.373+04	.150-00	.292+01	.434+02	.582+03
.20	.106-01	.128+01	.372+02	.613+03	.646-01	.991-00	.121+02	.133+03
.30	.301-02	.204-00	.614+01	.501+02	.200-01	.222-00	.201+01	.166+02
.40	.124-02	.575-01	.908-00	.887+01	.877-02	.781-01	.576-00	.388+01
.50	.627-03	.221-01	.289-00	.240+01	.465-02	.352-01	.222-00	.126+01
.70	.230-03	.545-02	.545-01	.355-00	.180-02	.106-01	.544-01	.250-00
1.00	.825-04	.132-02	.101-01	.521-01	.657-03	.321-02	.129-01	.475-01
L3 - SUBSHELL								
.05	.100+01	.112+04	.111+06	.417+07	.458-00	.184+04	.642+06	.444+08
.10	.111+00	.345+02	.174+04	.453+05	.554-01	.590+02	.716+04	.267+06
.15	.295-01	.456+01	.155+03	.300+04	.162-01	.794+01	.556+03	.146+05
.20	.114-01	.110+01	.280+02	.434+03	.682-02	.192+01	.944+02	.194+04
.30	.298-02	.151-00	.257+01	.286+02	.203-02	.264-00	.825+01	.122+03
.40	.116-02	.376-01	.481-00	.424+01	.866-03	.654-01	.153+01	.181+02
.50	.567-03	.130-01	.134-00	.986-00	.450-03	.224-01	.426-00	.428+01
.70	.198-03	.274-02	.202-01	.114+00	.170-03	.455-02	.649-01	.518-00
1.00	.675-04	.561-03	.296-02	.129-01	.618-04	.872-03	.936-02	.601-01
TOTAL L - SHELL								
.05	.240+01	.208+04	.207+06	.759+07	.435+02	.543+04	.743+06	.462+08
.10	.364-00	.680+02	.358+04	.943+05	.559+01	.227+03	.988+04	.305+06
.15	.119+00	.959+01	.342+03	.683+04	.171+01	.384+02	.912+03	.185+05
.20	.544-01	.247+01	.663+02	.107+04	.742-00	.114+02	.182+03	.272+04
.30	.182-01	.392-00	.693+01	.810+02	.232-00	.220+01	.214+02	.209+03
.40	.849-02	.114+00	.148+01	.137+02	.103+00	.727-00	.513+01	.374+02
.50	.479-02	.462-01	.467-00	.362+01	.555-01	.319-00	.179+01	.105+02
.70	.209-02	.132-01	.919-01	.527-00	.221-01	.972-01	.404-00	.175+01
1.00	.920-03	.408-02	.196-01	.651-01	.849-02	.297-01	.944-01	.308-00

TABLE 1.1.06

Z=80

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.20	.320-00	.587-00	.749-00	.916-00	.642+01	.420+02	.996+02	.168+03
.30	.117+00	.310-00	.749-00	.189+01	.201+01	.102+02	.322+02	.937+02
.40	.575-01	.160-00	.429-00	.120+01	.898-00	.384+01	.120+02	.358+02
.50	.336-01	.932-01	.254-00	.715-00	.484-00	.183+01	.539+01	.155+02
.70	.154-01	.416-01	.111+00	.296-00	.194-00	.620-00	.163+01	.423+01
1.00	.709-02	.187-01	.466-01	.113+00	.750-01	.208-00	.479-00	.109+01
L1 - SUBSHELL								
.05	.679-00	.318+02	.187+04	.386+05	.574+02	.510+04	.136+06	.214+07
.10	.169-00	.889-00	.594+02	.144+04	.741+01	.229+03	.352+04	.457+05
.15	.684-01	.205-00	.701+01	.148+03	.226+01	.405+02	.446+03	.450+04
.20	.352-01	.101+00	.171+01	.292+02	.981-00	.124+02	.108+03	.889+03
.30	.135-01	.409-01	.317-00	.338+01	.307-00	.248+01	.157+02	.967+02
.40	.668-02	.212-01	.117+00	.864-00	.136-00	.840-00	.425+01	.213+02
.50	.411-02	.126-01	.581-01	.332-00	.733-01	.374-00	.161+01	.689+01
.70	.194-02	.583-02	.218-01	.906-01	.292-01	.116+00	.399-00	.136+01
1.00	.910-03	.265-02	.832-02	.266-01	.112-01	.363-01	.101+00	.276-00
L2 - SUBSHELL								
.05	.837-00	.133+04	.127+06	.394+07	.592+01	.266+03	.587+04	.969+05
.10	.111+00	.469+02	.247+04	.620+05	.756-00	.192+02	.347+03	.545+04
.15	.325-01	.694+01	.255+03	.496+04	.230-00	.420+01	.590+02	.750+03
.20	.134-01	.184+01	.523+02	.830+03	.997-01	.144+01	.167+02	.176+03
.30	.389-02	.294-00	.588+01	.693+02	.311-01	.326-00	.284+01	.227+02
.40	.162-02	.834-01	.130+01	.124+02	.137-01	.116+00	.823-00	.538+01
.50	.832-03	.322-01	.417-00	.339+01	.730-02	.524-01	.320-00	.179+01
.70	.311-03	.802-02	.797-01	.511-00	.284-02	.163-01	.796-01	.356-00
1.00	.113-03	.196-02	.150-01	.761-01	.105-02	.489-02	.192-01	.692-01
L3 - SUBSHELL								
.05	.114+01	.151+04	.144+06	.487+07	.587-00	.283+04	.103+07	.698+08
.10	.130-00	.464+02	.228+04	.560+05	.709-01	.901+02	.113+05	.414+06
.15	.350-01	.615+01	.202+03	.376+04	.208-01	.121+02	.868+03	.224+05
.20	.136-01	.148+01	.367+02	.549+03	.875-02	.294+01	.147+03	.297+04
.30	.362-02	.203-00	.338+01	.366+02	.260-02	.401-00	.127+02	.185+03
.40	.143-02	.507-01	.636-00	.546+01	.111-02	.989-01	.234+01	.274+02
.50	.699-03	.176-01	.177-00	.128+01	.577-03	.338-01	.649-00	.645+01
.70	.245-03	.368-02	.269-01	.149-00	.218-03	.679-02	.981-01	.777-00
1.00	.842-04	.750-03	.394-02	.169-01	.789-04	.129-02	.140-01	.896-01
TOTAL L - SHELL								
.05	.266+01	.287+04	.273+06	.886+07	.639+02	.820+04	.117+07	.720+08
.10	.409-00	.942+02	.481+04	.119+06	.824+01	.338+03	.151+05	.465+06
.15	.136-00	.133+02	.465+03	.887+04	.251+01	.568+02	.137+04	.277+05
.20	.623-01	.342+01	.907+02	.141+04	.109+01	.167+02	.271+03	.403+04
.30	.210-01	.538-00	.958+01	.109+03	.340-00	.321+01	.312+02	.305+03
.40	.993-02	.155-00	.206+01	.188+02	.151-00	.105+01	.742+01	.541+02
.50	.564-02	.624-01	.652-00	.500+01	.811-01	.460-00	.258+01	.151+02
.70	.249-02	.175-01	.128-00	.751-00	.322-01	.140-00	.577-00	.250+01
1.00	.111-02	.537-02	.273-01	.120+00	.123-01	.425-01	.134-00	.435-00

TABLE 1.1.07

Z=84

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.20	.338-00	.401-00	.254-00	.133-00	.903+01	.541+02	.863+02	.706+02
.30	.127-00	.282-00	.592-00	.131+01	.284+01	.134+02	.363+02	.886+02
.40	.631-01	.158-00	.396-00	.104+01	.126+01	.505+01	.143+02	.384+02
.50	.373-01	.963-01	.253-00	.667-00	.679-00	.242+01	.661+01	.176+02
.70	.174-01	.453-01	.120+00	.314-00	.271-00	.825-00	.205+01	.504+01
1.00	.813-02	.213-01	.533-01	.128-00	.104+00	.278-00	.614-00	.134+01
L1 - SUBSHELL								
.05	.668-00	.503+02	.218+04	.331+05	.847+02	.767+04	.193+06	.253+07
.10	.174-00	.160+01	.873+02	.183+04	.109+02	.338+03	.500+04	.608+05
.15	.726-01	.299-00	.111+02	.208+03	.333+01	.593+02	.632+03	.611+04
.20	.380-01	.126-00	.273+01	.431+02	.144+01	.180+02	.152+03	.122+04
.30	.149-01	.471-01	.472-00	.510+01	.451-00	.360+01	.221+02	.133+03
.40	.773-02	.244-01	.164-00	.128+01	.200-00	.121+01	.598+01	.293+02
.50	.467-02	.147-01	.785-01	.479-00	.107+00	.537-00	.226+01	.948+01
.70	.224-02	.696-02	.286-01	.126-00	.425-01	.166-00	.559-00	.188+01
1.00	.107-02	.325-02	.108-01	.359-01	.162-01	.516-01	.140-00	.380-00
L2 - SUBSHELL								
.05	.957-00	.187+04	.169+06	.442+07	.905+01	.367+03	.671+04	.868+05
.10	.133-00	.664+02	.338+04	.789+05	.116+01	.272+02	.451+03	.652+04
.15	.399-01	.988+01	.353+03	.654+04	.356-00	.600+01	.797+02	.950+03
.20	.168-01	.262+01	.730+02	.111+04	.155-00	.208+01	.228+02	.231+03
.30	.497-02	.424-00	.831+01	.952+02	.486-01	.476-00	.398+01	.306+02
.40	.211-02	.121+00	.186+01	.173+02	.216-01	.171-00	.117+01	.740+01
.50	.110-02	.470-01	.601-00	.477+01	.115-01	.780-01	.459-00	.251+01
.70	.417-03	.118-01	.116+00	.730-00	.449-02	.246-01	.116+00	.509-00
1.00	.155-03	.292-02	.221-01	.111+00	.165-02	.745-02	.284-01	.100+00
L3 - SUBSHELL								
.05	.129+01	.203+04	.185+06	.555+07	.746-00	.431+04	.164+07	.108+09
.10	.150-00	.624+02	.293+04	.682+05	.900-01	.137+03	.176+05	.633+06
.15	.410-01	.827+01	.263+03	.466+04	.264-01	.184+02	.135+04	.341+05
.20	.162-01	.199+01	.477+02	.686+03	.111-01	.445+01	.226+03	.449+04
.30	.435-02	.273-00	.442+01	.462+02	.230-02	.606-00	.193+02	.279+03
.40	.173-02	.680-01	.832-00	.695+01	.141-02	.149-00	.355+01	.410+02
.50	.851-03	.235-01	.232-00	.163+01	.733-03	.507-01	.980-00	.961+01
.70	.301-03	.492-02	.353-01	.192-00	.276-03	.101-01	.147-00	.115+01
1.00	.104-03	.993-03	.518-02	.220-01	.997-04	.189-02	.209-01	.133-00
TOTAL L - SHELL								
.05	.291+01	.395+04	.356+06	.100+08	.945+02	.123+05	.184+07	.111+09
.10	.457-00	.130+03	.641+04	.149+06	.121+02	.502+03	.231+05	.700+06
.15	.154-00	.184+02	.627+03	.114+05	.371+01	.837+02	.206+04	.411+05
.20	.710-01	.474+01	.123+03	.184+04	.161+01	.246+02	.401+03	.594+04
.30	.243-01	.744-00	.132+02	.147+03	.503-00	.468+01	.454+02	.442+03
.40	.116-01	.214-00	.286+01	.256+02	.223-00	.153+01	.107+02	.777+02
.50	.662-02	.853-01	.911-00	.688+01	.119+00	.666-00	.370+01	.216+02
.70	.296-02	.237-01	.180-00	.105+01	.472-01	.201-00	.822-00	.354+01
1.00	.133-02	.715-02	.381-01	.168-00	.179-01	.610-01	.190-00	.613-00

TABLE 1.1.08

Z=88

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.30	.135-00	.248-00	.459-00	.817-00	.400+01	.174+02	.393+02	.766+02
.40	.686-01	.154-00	.359-00	.879-00	.178+01	.662+01	.167+02	.396+02
.50	.410-01	.989-01	.250-00	.653-00	.954-00	.319+01	.798+01	.194+02
.70	.194-01	.496-01	.129-00	.332-00	.380-00	.109+01	.255+01	.590+01
1.00	.927-02	.244-01	.610-01	.145-00	.143-00	.369-00	.780-00	.163+01
L1 - SUBSHELL								
.05	.646-00	.758+02	.234+04	.238+05	.125+03	.114+05	.269+06	.279+07
.10	.179-00	.273+01	.122+03	.222+04	.162+02	.500+03	.706+04	.794+05
.15	.766-01	.481-00	.169+02	.282+03	.492+01	.870+02	.891+03	.820+04
.20	.407-01	.178-00	.426+01	.613+02	.213+01	.263+02	.215+03	.165+04
.30	.164-01	.587-01	.717-00	.753+01	.665-00	.521+01	.311+02	.181+03
.40	.862-02	.296-01	.237-00	.188+01	.294-00	.174+01	.839+01	.402+02
.50	.527-02	.178-01	.110+00	.093-00	.157-00	.770-00	.317+01	.130+02
.70	.258-02	.852-02	.387-01	.177-00	.621-01	.238-00	.781-00	.258+01
1.00	.126-02	.403-02	.143-01	.491-01	.235-01	.734-01	.196-00	.522-00
L2 - SUBSHELL								
.05	.108+01	.264+04	.222+06	.405+07	.140+02	.502+03	.727+04	.666+05
.10	.157-00	.943+02	.458+04	.989+05	.181+01	.383+02	.578+03	.761+04
.15	.484-01	.141+02	.485+03	.852+04	.556-00	.853+01	.106+03	.119+04
.20	.208-01	.576+01	.101+03	.148+04	.243-00	.299+01	.311+02	.297+03
.30	.629-02	.612-00	.117+02	.130+03	.706-01	.694-00	.554+01	.409+02
.40	.272-02	.176-00	.265+01	.240+02	.341-01	.251-00	.165+01	.101+02
.50	.143-02	.685-01	.862-00	.067+01	.163-01	.116+00	.658-00	.347+01
.70	.555-03	.174-01	.168-00	.104+01	.719-02	.369-01	.168-00	.719-00
1.00	.210-03	.433-02	.326-01	.160-00	.267-02	.113-01	.420-01	.145-00
L3 - SUBSHELL								
.05	.143+01	.272+04	.235+06	.617+07	.940-00	.651+04	.257+07	.165+09
.10	.172-00	.837+02	.376+04	.817+05	.112+00	.207+03	.273+05	.959+06
.15	.477-01	.111+02	.338+03	.569+04	.332-01	.277+02	.206+04	.513+05
.20	.190-01	.267+01	.615+02	.846+03	.140-01	.670+01	.344+03	.673+04
.30	.516-02	.365-00	.571+01	.577+02	.415-02	.910-00	.292+02	.414+03
.40	.207-02	.910-01	.108+01	.874+01	.177-02	.223-00	.533+01	.607+02
.50	.102-02	.315-01	.301-00	.206+01	.921-03	.755-01	.147+01	.142+02
.70	.365-03	.655-02	.460-01	.245-00	.346-03	.150-01	.219-00	.170+01
1.00	.127-03	.132-02	.676-02	.282-01	.125-03	.277-02	.310-01	.194-00
TOTAL L - SHELL								
.05	.316+01	.543+04	.460+06	.108+08	.140+03	.184+05	.285+07	.168+09
.10	.509-00	.181+03	.846+04	.183+06	.181+02	.746+03	.350+05	.105+07
.15	.173-00	.256+02	.840+03	.145+05	.551+01	.123+03	.306+04	.607+05
.20	.805-01	.660+01	.167+03	.239+04	.239+01	.360+02	.590+03	.867+04
.30	.279-01	.104+01	.181+02	.195+03	.746-00	.681+01	.658+02	.636+03
.40	.134-01	.296-00	.396+01	.346+02	.330-00	.222+01	.154+02	.111+03
.50	.772-02	.118+00	.127+01	.942+01	.176-00	.962-00	.529+01	.307+02
.70	.350-02	.324-01	.253-00	.146+01	.697-01	.290-00	.117+01	.500+01
1.00	.159-02	.967-02	.536-01	.237-00	.263-01	.875-01	.269-00	.861-00

TABLE 1.1.09

Z=92

ICC K AND L SHELL

K	E1	E2	E3	E4	N1	N2	M3	M4
K - SHELL								
.30	.143-00	.209-00	.295-00	.426-00	.568+01	.224+02	.402+02	.585+02
.40	.741-01	.148+00	.318+00	.711-00	.252+01	.866+01	.190+02	.388+02
.50	.447-01	.101+00	.247-00	.609-00	.135+01	.418+01	.949+01	.207+02
.70	.217-01	.543-01	.140-00	.350-00	.536-00	.145+01	.315+01	.680+01
1.00	.105-01	.281-01	.703-01	.164-00	.204-00	.492-00	.986-00	.196+01
L1 - SUBSHELL								
.05	.614-00	.110+03	.224+04	.122+05	.187+03	.171+05	.369+06	.278+07
.10	.181-00	.466+01	.165+03	.258+04	.241+02	.738+03	.988+04	.102+06
.15	.797-01	.803-00	.248+02	.368+03	.734+01	.128+03	.126+04	.109+05
.20	.432-01	.273-00	.648+01	.849+02	.319+01	.384+02	.302+03	.222+04
.30	.179-01	.798-01	.109+01	.109+02	.990-00	.757+01	.437+02	.247+03
.40	.954-02	.383-01	.351-00	.274+01	.437-00	.252+01	.118+02	.549+02
.50	.591-02	.227-01	.158-00	.100+01	.234-00	.111+01	.444+01	.178+02
.70	.295-02	.108-01	.537-01	.251-00	.919-01	.341-00	.109+01	.354+01
1.00	.147-02	.511-02	.194-01	.681-01	.346-01	.105+00	.274-00	.719-00
L2 - SUBSHELL								
.05	.119+01	.273+04	.289+06	.447+07	.219+02	.684+03	.722+04	.387+05
.10	.185-00	.136+03	.617+04	.122+06	.285+01	.539+02	.733+03	.857+04
.15	.584-01	.201+02	.666+03	.110+05	.630-00	.122+02	.140+03	.146+04
.20	.255-01	.539+01	.161+03	.195+04	.386-00	.430+01	.421+02	.380+03
.30	.793-02	.867-00	.165+02	.176+03	.122+00	.101+01	.767+01	.545+02
.40	.348-02	.256-00	.376+01	.330+02	.547-01	.371-00	.233+01	.137+02
.50	.186-02	.100+00	.124+01	.929+01	.294-01	.172-00	.936-00	.479+01
.70	.736-03	.256-01	.245-00	.147+01	.116-01	.556-01	.245-00	.101+01
1.00	.285-03	.645-02	.479-01	.230-00	.435-02	.173-01	.619-01	.200-00
L3 - SUBSHELL								
.05	.158+01	.365+04	.297+06	.667+07	.117+01	.983+04	.400+07	.249+09
.10	.195-00	.112+03	.477+04	.966+05	.141-00	.312+03	.416+05	.144+07
.15	.548-01	.148+02	.430+03	.689+04	.414-01	.417+02	.314+04	.764+05
.20	.220-01	.357+01	.787+02	.103+04	.174-01	.101+02	.520+03	.998+04
.30	.607-02	.489-00	.732+01	.713+02	.518-02	.136+01	.439+02	.610+03
.40	.245-02	.122+00	.139+01	.109+02	.221-02	.333-00	.798+01	.891+02
.50	.122-02	.420-01	.388-00	.258+01	.115-02	.112+00	.219+01	.208+02
.70	.439-03	.871-02	.595-01	.309-00	.430-03	.221-01	.324-00	.248+01
1.00	.153-03	.174-02	.875-02	.360-01	.155-03	.405-02	.456-01	.283-00
TOTAL L - SHELL								
.05	.339+01	.749+04	.588+06	.112+08	.210+03	.276+05	.437+07	.252+09
.10	.561-00	.231+03	.111+05	.221+06	.271+02	.110+04	.524+05	.155+07
.15	.193-00	.358+02	.112+04	.182+05	.826+01	.181+03	.454+04	.888+05
.20	.907-01	.924+01	.226+03	.307+04	.359+01	.527+02	.865+03	.126+05
.30	.319-01	.146+01	.249+02	.258+03	.112+01	.995+01	.953+02	.912+03
.40	.155-01	.416-00	.550+01	.466+02	.494-00	.323+01	.221+02	.158+03
.50	.899-02	.165-00	.178+01	.129+02	.264-00	.140+01	.756+01	.434+02
.70	.412-02	.451-01	.358-00	.203+01	.104+00	.419-00	.166+01	.703+01
1.00	.190-02	.133-01	.761-01	.334-00	.391-01	.126-00	.382-00	.121+01

TABLE 1.1.10

Z=96

ICC K AND L SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
K - SHELL								
.30	.149-00	.167-00	.172-00	.165-00	.805+01	.283+02	.385+02	.570+02
.40	.787-01	.141-00	.277-00	.545-00	.358+01	.111+02	.210+02	.362+02
.50	.483-01	.103+00	.242-00	.558-00	.192+01	.544+01	.110+02	.215+02
.70	.239-01	.597-01	.152-00	.366-00	.760-00	.190+01	.383+01	.766+01
1.00	.119-01	.325-01	.812-01	.185-00	.289-00	.654-00	.124+01	.233+01
L1 - SUBSHELL								
.10	.181-00	.744+01	.21+03	.284+04	.361+02	.109+04	.137+05	.128+04
.15	.824+01	.132+01	.351+02	.465+03	.110+02	.187+03	.175+04	.145+05
.20	.455-01	.434-00	.952+01	.114-03	.476+01	.560+02	.421+03	.296+04
.30	.193-01	.115+00	.164+01	.153+02	.143+01	.110+02	.610+02	.333+03
.40	.105-01	.524-01	.519-00	.592+01	.653-00	.364+01	.165+02	.744+02
.50	.660-02	.302-01	.229-00	.144+01	.347-00	.160-01	.621+01	.242+02
.70	.336-02	.141-01	.756-01	.356-00	.136-00	.490-00	.133+01	.484+01
1.00	.171-02	.666-02	.267-01	.951-01	.513-01	.151-00	.385-00	.989-00
L2 - SUBSHELL								
.05	.130+01	.523+04	.363+06	.366+07	.346+02	.922+03	.612+04	.107+05
.10	.213-00	.189+03	.822+04	.147+06	.453+01	.751+02	.905+03	.931+04
.15	.695-01	.286+02	.902+03	.139+05	.140+01	.173+02	.183+03	.176+04
.20	.309-01	.771+01	.192+03	.255+04	.610-00	.616+01	.562+02	.478+03
.30	.984-02	.128+01	.229+02	.234+03	.196-00	.147+01	.105+02	.711+02
.40	.440-02	.371-00	.529+01	.448+02	.880-01	.543-00	.325+01	.184+02
.50	.236-02	.146-00	.175+01	.128+02	.475-01	.235-00	.132+01	.652+01
.70	.965+03	.377-01	.352-00	.206+01	.189-01	.834-01	.251-00	.142+01
1.00	.383-02	.962-02	.703-01	.330-00	.713-02	.264-01	.909-01	.298-00
L3 - SUBSHELL								
.05	.173+01	.493+04	.371+06	.694+07	.145+01	.158+05	.624+07	.373+09
.10	.219-00	.152+03	.600+04	.112+06	.175-00	.501+03	.649+05	.215+07
.15	.625-01	.202+02	.543+03	.820+04	.512-01	.671+02	.483+04	.114+06
.20	.253-01	.486+01	.996+02	.124+04	.215-01	.161+02	.795+05	.148+05
.30	.705-02	.665-00	.929+01	.868+02	.640-02	.219+01	.667+02	.901+03
.40	.287-02	.165-00	.177+01	.134+02	.273-02	.534-00	.121+02	.131+03
.50	.144-02	.570-01	.496-00	.318+01	.142-02	.180-00	.329+01	.306+02
.70	.521+03	.118-01	.761-01	.385-00	.530-03	.352-01	.486-00	.363+01
1.00	.183-03	.233-02	.112-01	.452-01	.190-03	.639-02	.681-01	.414-00
TOTAL L - SHELL								
.10	.614-00	.349+03	.144+05	.262+06	.408+02	.166+04	.795+05	.229+07
.15	.214-00	.501+02	.149+04	.226+05	.125+02	.271+03	.676+04	.130+06
.20	.102+00	.130+02	.301+03	.390+04	.540+01	.782+02	.127+04	.183+05
.30	.362-01	.206+01	.338+02	.337+03	.168+01	.146+02	.138+03	.131+04
.40	.178-01	.589-00	.758+01	.620+02	.743-00	.472+01	.318+02	.224+03
.50	.104-01	.234-00	.248+01	.174+02	.390-00	.203+01	.108+02	.617+02
.70	.485-02	.635-01	.504-00	.280+01	.156-00	.609-00	.237+01	.989+01
1.00	.228-02	.186-01	.108+00	.471-00	.586-01	.184-00	.544-00	.170+01

TABLE 1.2

INTERNAL CONVERSION COEFFICIENTS
(STATIC)
OF THE N SHELL

TABLE 1.2.01

Z=72

ICC H SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M1 - SUBSHELL								
.02	.904-00	.216+03	.250+05	.103+07	.902+02	.421+05	.534+07	.368+09
.05	.152-00	.213+01	.247+02	.131+05	.590+01	.563+03	.231+05	.753+06
.10	.327-01	.102+00	.655+01	.232+03	.760-00	.252+02	.494+03	.875+04
.15	.126-01	.389-01	.746-00	.198+02	.232-00	.446+01	.585+02	.728+03
.20	.627-02	.207-01	.197-00	.364+01	.101+00	.136+01	.137+02	.132+03
.30	.232-02	.789-02	.430-01	.418-00	.317-01	.275-00	.192+01	.135+02
.40	.115-02	.382-02	.169-01	.110+00	.141-01	.929-01	.513-00	.281+01
.50	.670-03	.216-02	.853-02	.436-01	.764-02	.414-01	.192-00	.885-00
.70	.306-03	.932-03	.316-02	.122-01	.306-02	.129-01	.471-01	.170-00
1.00	.139-03	.397-03	.116-02	.355-02	.119-02	.403-02	.117-01	.336-01
M2 - SUBSHELL								
.02	.119+01	.142+05	.533+07	.593+09	.942+01	.176+04	.141+06	.626+07
.05	.114+00	.157+03	.201+05	.113+07	.607+00	.392+02	.169+04	.555+05
.10	.155-01	.552+01	.341+03	.109+05	.776-01	.249+01	.584+02	.122+04
.15	.453-02	.813-00	.534+02	.764+03	.235-01	.516-00	.973+01	.132+03
.20	.186-02	.214-00	.665+01	.120+03	.101-01	.172-00	.231+01	.280+02
.30	.529-03	.340-01	.722-00	.931+01	.313-02	.375-01	.365-00	.323+01
.40	.217-03	.955-02	.156-00	.160-01	.137-02	.130-01	.102+00	.722-00
.50	.110-03	.365-02	.492-01	.425-00	.721-03	.581-02	.385-01	.252-00
.70	.401-04	.896-03	.915-02	.616-01	.277-03	.176-02	.922-02	.460-01
1.00	.142-04	.215-03	.167-02	.882-02	.160-03	.513-03	.213-02	.809-02
M3 - SUBSHELL								
.02	.203+01	.199+05	.707+07	.748+09	.133+01	.294+05	.529+08	.154+11
.05	.166-00	.199+03	.236+05	.125+07	.825-01	.305+03	.112+06	.104+08
.10	.201-01	.620+01	.345+03	.103+05	.101-01	.975+01	.124+04	.545+05
.15	.548-02	.826-00	.300+02	.637+03	.300-02	.131+01	.958+02	.262+04
.20	.215-02	.200-00	.538+01	.892+02	.127-02	.319-00	.162+02	.366+03
.30	.570-03	.275-01	.488-00	.572+01	.380-03	.439-01	.141+01	.223+02
.40	.224-03	.689-02	.911-01	.836-00	.163-03	.109-01	.262-00	.327+01
.50	.109-03	.239-02	.252-01	.192-00	.649-04	.376-02	.729-01	.765-00
.70	.381-04	.504-03	.380-02	.221-01	.322-04	.766-03	.111-01	.915-01
1.00	.130-04	.104-03	.553-03	.245-02	.112-04	.148-03	.159-02	.105-01

TABLE 1.2.01 (CONTINUED)

Z=72

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M4 - SUBSHELL								
.02	.860-00	.285+03	.125+07	.188+10	.193-00	.453+03	.456+06	.114+09
.05	.264-01	.265+01	.197+04	.858+06	.814-02	.445+01	.127+04	.139+06
.10	.158-02	.747-01	.156+02	.290+04	.681-03	.135-00	.165+02	.956+03
.15	.291-03	.922-02	.950-00	.111+03	.154-03	.176-01	.137+01	.544+02
.20	.869-04	.210-02	.134-00	.113+02	.531-04	.418-02	.237-00	.730+01
.30	.159-04	.266-03	.885-02	.476-00	.116-04	.555-03	.208-01	.449-00
.40	.478-05	.628-04	.135-02	.529-01	.354-05	.134-03	.379-02	.643-01
.50	.191-05	.209-04	.326-03	.995-02	.169-05	.447-04	.103-02	.146-01
.70	.488-06	.411-05	.408-04	.856-03	.473-06	.866-05	.148-03	.162-02
1.00	.118-06	.771-06	.502-05	.700-04	.122-06	.155-05	.197-04	.167-03

M5 - SUBSHELL

.02	.115+01	.294+03	.197+07	.248+10	.111+00	.365+02	.135+07	.536+10
.05	.338-01	.262+01	.302+04	.106+07	.489-02	.389-00	.223+04	.181+07
.10	.196-02	.695-01	.224+02	.330+04	.428-03	.131-01	.180+02	.496+04
.15	.356-03	.815-02	.129+01	.117+03	.100-03	.184-02	.100+01	.169+03
.20	.105-03	.178-02	.172-00	.111+02	.355-04	.466-03	.148-00	.160+02
.30	.191-04	.212-03	.102-01	.417-00	.819-05	.694-04	.914-02	.613-00
.40	.578-05	.480-04	.142-02	.415-01	.290-05	.185-04	.129-02	.632-01
.50	.234-05	.156-04	.315-03	.708-02	.131-05	.678-05	.253-03	.111-01
.70	.624-06	.300-05	.343-04	.514-03	.402-06	.156-05	.313-04	.852-03
1.00	.163-06	.573-06	.364-05	.344-04	.120-06	.351-06	.326-05	.594-04

TOTAL M - SHELL

.02	.614+01	.349+05	.156+08	.571+10	.101+03	.737+05	.602+08	.213+11
.05	.492-00	.362+03	.489+05	.431+07	.660+01	.912+03	.141+06	.132+08
.10	.718-01	.120+02	.731+03	.277+05	.849-00	.376+02	.183+04	.704+05
.15	.232-01	.170+01	.654+02	.165+04	.259-00	.631+01	.166+03	.391+04
.20	.105-01	.438-00	.125+02	.235+03	.112+00	.186+01	.326+02	.550+03
.30	.345-02	.699-01	.127+01	.163+02	.352-01	.357-00	.373+01	.399+02
.40	.160-02	.204-01	.267-00	.265+01	.157-01	.117+00	.832-00	.693+01
.50	.894-03	.824-02	.836-01	.678-00	.845-02	.510-01	.305-00	.191+01
.70	.385-03	.234-02	.162-01	.972-01	.337-02	.155-01	.676-01	.308-00
1.00	.166+03	.717+03	.340-02	.149-01	.130-02	.469-02	.155-01	.524-01

TABLE 1.2.02

Z=76

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M1 - SUBSHELL								
.02	.895-00	.328+03	.323+05	.118+07	.135+03	.663+05	.866+07	.570+09
.05	.158-00	.400+01	.440+03	.174+05	.881+01	.875+03	.362+05	.115+07
.10	.353-01	.153-00	.112+02	.351+03	.113+01	.386+02	.752+03	.131+05
.15	.139-01	.443-01	.130+01	.320+02	.346-00	.675+01	.878+02	.108+04
.20	.701-02	.223-01	.322-00	.603+01	.150-00	.205+01	.203+02	.194+03
.30	.264-02	.859-02	.608-01	.668-00	.471-01	.408-00	.283+01	.193+02
.40	.133-02	.428-02	.224-01	.167-00	.209-01	.137-00	.749-00	.406+01
.50	.784-03	.248-02	.110-01	.630-01	.113-01	.608-01	.279-00	.127+01
.70	.364-03	.111-02	.404-02	.168-01	.450-02	.188-01	.679-01	.243-00
1.00	.168-03	.487-03	.150-02	.479-02	.173-02	.583-02	.168-01	.478-01

M2 - SUBSHELL

.02	.127+01	.206+05	.781+07	.829+09	.145+02	.265+04	.201+06	.107+08
.05	.134-00	.227+03	.290+05	.157+07	.940-00	.564+02	.228+04	.754+05
.10	.191-01	.806+01	.493+03	.153+05	.121+00	.370+01	.857+02	.169+04
.15	.573-02	.119+01	.486+02	.109+04	.368-01	.771-00	.126+02	.188+03
.20	.241-02	.315-00	.972+01	.171+03	.160-01	.258-00	.333+01	.396+02
.30	.700-03	.504-01	.106+01	.135+02	.496-02	.569-01	.538-00	.464+01
.40	.293-03	.142-01	.232-00	.235+01	.218-02	.199-01	.151-00	.105+01
.50	.150-03	.548-02	.736-01	.627-00	.116-02	.893-02	.577-01	.341-00
.70	.557-04	.135-02	.138-01	.919-01	.446-03	.274-02	.140-01	.655-01
1.00	.201-04	.328-03	.255-02	.133-01	.163-03	.805-03	.328-02	.122-01

M3 - SUBSHELL

.02	.222+01	.277+05	.992+07	.995+09	.177+01	.469+05	.912+08	.275+11
.05	.192-00	.277+03	.325+05	.165+07	.110+00	.487+03	.190+06	.179+08
.10	.240-01	.865+01	.473+03	.137+05	.135-01	.155+02	.206+04	.906+05
.15	.668-02	.115+01	.411+02	.847+03	.398-02	.209+01	.157+03	.463+04
.20	.265-02	.279-00	.738+01	.119+03	.168-02	.505-00	.264+02	.594+03
.30	.715-03	.385-01	.671-00	.767+01	.505-03	.694-01	.228+01	.358+02
.40	.284-03	.962-02	.125-00	.113+01	.217-03	.172-01	.419-00	.520+01
.50	.140-03	.234-02	.348-01	.260-00	.113-03	.587-02	.116+00	.121+01
.70	.491-04	.703-03	.526-02	.301-01	.428-04	.119-02	.175-01	.144-00
1.00	.169-04	.144-03	.766-03	.336-02	.156-04	.227-03	.249-02	.164-01

TABLE 1.2.02 (CONTINUED)

Z=76

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M4 - SUBSHELL								
.02	.109+01	.406+03	.194+07	.313+10	.271-00	.751+03	.780+06	.191+09
.05	.353-01	.385+01	.309+04	.141+07	.117-01	.742+01	.214+04	.231+06
.10	.219-02	.111+00	.245+02	.474+04	.100-02	.226-00	.273+02	.158+04
.15	.413-03	.139-01	.149+01	.101+03	.229-03	.296-01	.229+01	.903+02
.20	.125-03	.519-02	.210-00	.184+02	.795-04	.701-02	.399-00	.121+02
.30	.231-04	.410-03	.140-01	.780-00	.176-04	.934-03	.351-01	.750-00
.40	.705-05	.978-04	.214-02	.670-01	.598-05	.225-03	.642-02	.108+00
.50	.263-05	.327-04	.516-03	.164-01	.238-05	.754-04	.175-02	.245-01
.70	.731-06	.649-05	.649-04	.141-02	.724-06	.146-04	.252-03	.274-02
1.00	.178-06	.122-05	.801-05	.116-03	.182-06	.261-05	.337-04	.205-03
M5 - SUBSHELL								
.02	.145+01	.395+03	.312+07	.408+10	.152-00	.544+02	.241+07	.104+11
.05	.448-01	.358+01	.479+04	.172+07	.683-02	.578-00	.401+04	.345+07
.10	.268-02	.968-01	.357+02	.533+04	.608-03	.195-01	.321+02	.928+04
.15	.495-03	.115-01	.205+01	.189+03	.144-03	.272-02	.192+01	.513+03
.20	.148-03	.254-02	.273-00	.179+02	.512-04	.690-03	.262-00	.294+02
.30	.272-04	.306-03	.163-01	.671-00	.119-04	.103-05	.161-01	.111+01
.40	.834-05	.698-04	.226-02	.669-01	.423-05	.275-04	.226-02	.114+00
.50	.339-05	.227-04	.500-03	.114-01	.191-05	.101-04	.500-03	.199-01
.70	.907-06	.441-05	.541-04	.827-03	.588-06	.232-05	.535-04	.151-02
1.00	.239-06	.847-06	.268-05	.353-04	.175-06	.521-06	.544-05	.104-03
TOTAL M - SHELL								
.02	.692+01	.494+05	.228+08	.904+10	.151+03	.117+06	.103+09	.387+11
.05	.564+00	.516+03	.698+05	.637+07	.987+01	.143+04	.234+06	.228+08
.10	.633+01	.171+02	.104+04	.394+05	.127+01	.550+02	.295+04	.116+06
.15	.272-01	.241+01	.946+02	.233+04	.387-00	.964+01	.262+03	.629+04
.20	.123-01	.622-00	.179+02	.332+03	.168-00	.287+01	.508+02	.369+03
.30	.611-02	.982-01	.183+01	.233+02	.526-01	.535-00	.570+01	.616+02
.40	.192-02	.283+01	.385-00	.379+01	.233-01	.174-00	.133+01	.105+02
.50	.108-02	.114-01	.120+00	.978-00	.125-01	.757-01	.455-00	.287+01
.70	.470-03	.317-02	.232-01	.141-00	.499-02	.228-01	.997-01	.457-00
1.00	.205-03	.960-03	.683-02	.217-01	.191-02	.687-02	.226-01	.768-01

TABLE 1.2.03

Z=80

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M1 - SUBSHELL								
.02	.680-00	.489+03	.418+05	.139+07	.201+03	.104+06	.139+08	.890+09
.05	.164-00	.702+01	.634+03	.227+05	.131+02	.135+04	.562+05	.175+07
.10	.378-01	.265-00	.181+02	.512+03	.169+01	.586+02	.114+04	.195+05
.15	.151-01	.594-01	.220+01	.497+02	.516-00	.102+02	.131+03	.158+04
.20	.776-02	.265-01	.535-00	.962+01	.224-00	.306+01	.301+02	.284+03
.30	.299-02	.980-02	.918-01	.106+01	.699-01	.604-00	.414+01	.279+02
.40	.152-02	.493-02	.315-01	.256-00	.310-01	.202-00	.109+01	.584+01
.50	.910-03	.291-02	.149-01	.936-01	.167-01	.890-01	.404-00	.183+01
.70	.429-03	.133-02	.534-02	.238-01	.662-02	.274-01	.977-01	.347-00
1.00	.202-03	.600-03	.197-02	.659-02	.253-02	.843-02	.240-01	.678-01
M2 - SUBSHELL								
.02	.134+01	.295+05	.113+08	.114+10	.224+02	.399+04	.285+06	.136+08
.05	.154-00	.328+03	.416+05	.217+07	.146+01	.864+02	.321+04	.101+06
.10	.231-01	.117+02	.708+03	.214+05	.189-00	.548+01	.119+03	.231+04
.15	.716-02	.174+01	.700+02	.153+04	.578-01	.114+01	.181+02	.258+03
.20	.306-02	.461-00	.141+02	.242+03	.251-01	.386-00	.484+01	.535+02
.30	.914-03	.743-01	.156+01	.193+02	.786-02	.857-01	.785-00	.660+01
.40	.389-03	.211-01	.342-00	.340+01	.347-02	.302-01	.223-00	.151+01
.50	.202-03	.816-02	.109+00	.914-00	.185-02	.136-01	.856-01	.495-00
.70	.764-04	.204-02	.207-01	.136-00	.719-03	.422-02	.210-01	.964-01
1.00	.281-04	.497-03	.387-02	.200-01	.265-03	.125-02	.500-02	.183-01
M3 - SUBSHELL								
.02	.238+01	.384+05	.137+08	.131+10	.232+01	.739+05	.154+09	.480+11
.05	.218-00	.384+03	.442+05	.214+07	.144-00	.767+03	.315+06	.300+08
.10	.283-01	.120+02	.641+03	.178+05	.176-01	.244+02	.336+04	.148+06
.15	.802-02	.160+01	.556+02	.111+04	.521-02	.328+01	.254+03	.746+04
.20	.322-02	.386-00	.999+01	.156+03	.221-02	.792-00	.424+02	.949+03
.30	.883-03	.533-01	.911-00	.101+02	.662-03	.108+00	.362+01	.565+02
.40	.354-03	.133-01	.171-00	.150+01	.284-03	.267-01	.661-00	.815+01
.50	.175-03	.462-02	.474-01	.347-00	.148-03	.910-02	.182-00	.189+01
.70	.622-04	.969-03	.718-02	.403-01	.561-04	.183-02	.272-01	.223-00
1.00	.215-04	.197-03	.105-02	.454-02	.204-04	.343-03	.385-02	.252-01

TABLE 1.2.03 (CONTINUED)

Z=80

ICC N SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M4 - SUBSHELL								
.02	.135+01	.574+03	.295+07	.506+10	.374-00	.123+04	.131+07	.312+09
.05	.460-01	.552+01	.472+04	.226+07	.165-01	.122+02	.354+04	.374+06
.10	.297-02	.162-00	.375+02	.758+04	.143-02	.372-00	.458+02	.256+04
.15	.571-03	.205-01	.229+01	.289+03	.332-03	.488-01	.378+01	.147+03
.20	.175-03	.477-02	.323-00	.295+02	.116-03	.116-01	.658-00	.197+02
.30	.329-04	.621-03	.215-01	.125+01	.259-04	.155-02	.580-01	.123+01
.40	.101-04	.149-03	.330-02	.140-00	.886-05	.374-03	.106-01	.177-00
.50	.411-05	.503-04	.798-03	.264-01	.384-05	.125-03	.290-02	.404-01
.70	.107-05	.100-04	.101-03	.229-02	.108-05	.243-04	.421-03	.454-02
1.00	.262-06	.190-05	.125-04	.188-03	.281-06	.433-05	.565-04	.475-03

M5 - SUBSHELL

.02	.178+01	.521+03	.483+07	.658+10	.204-00	.793+02	.422+07	.195+11
.05	.578-01	.478+01	.747+04	.273+07	.933-02	.840-00	.700+04	.638+07
.10	.358-02	.132-00	.558+02	.640+04	.843-03	.280-01	.559+02	.169+05
.15	.672-03	.158-01	.321+01	.297+03	.201-03	.394-02	.333+01	.564+03
.20	.203-03	.352-02	.427-00	.282+02	.720-04	.997-03	.454-00	.526+02
.30	.379-04	.429-03	.255-01	.106+01	.168-04	.149-03	.277-01	.197+01
.40	.117-04	.988-04	.353-02	.105+00	.602-05	.398-04	.387-02	.200-00
.50	.479-05	.323-04	.777-03	.180-01	.272-05	.146-04	.551-03	.349-01
.70	.129-05	.633-05	.835-04	.130-02	.840-06	.336-05	.898-04	.262-02
1.00	.341-06	.122-05	.868-05	.867-04	.250-06	.756-06	.891-05	.179-03

TOTAL N - SHELL

.02	.774+01	.694+05	.329+08	.141+11	.226+03	.183+06	.173+09	.688+11
.05	.639-00	.730+03	.987+05	.933+07	.148+02	.222+04	.385+06	.586+08
.10	.958-01	.242+02	.146+04	.557+05	.190+01	.889+02	.472+04	.189+06
.15	.316-01	.343+01	.133+03	.327+04	.580-00	.146+02	.410+03	.100+05
.20	.144-01	.882-00	.254+02	.466+03	.251-00	.425+01	.785+02	.136+04
.30	.485-02	.138-00	.261+01	.328+02	.785-01	.800-00	.863+01	.942+02
.40	.229-02	.396-01	.551-00	.539+01	.348-01	.259-00	.199+01	.139+02
.50	.130-02	.158-01	.173-00	.140+01	.187-01	.112+00	.675-00	.428+01
.70	.570-03	.435-02	.334-01	.204-00	.740-02	.335-01	.146-00	.673-00
1.00	.252-03	.130-02	.690-02	.314-01	.281-02	.100-01	.329-01	.112+00

TABLE 1.2.04

Z=84

ICC H SHELL

K	E1	E2	E3	E4	H1	H2	H3	H4
H1 - SUBSHELL								
.02	.853-00	.725+03	.548+05	.168+07	.301+03	.163+06	.223+08	.136+10
.05	.168-00	.118+02	.899+03	.252+05	.197+02	.208+04	.867+05	.263+07
.10	.401-01	.472-00	.283+02	.728+03	.253+01	.890+02	.171+04	.288+05
.15	.164-01	.914-01	.361+01	.748+02	.774-00	.153+02	.195+03	.232+04
.20	.852-02	.358-01	.883-00	.149+02	.335-00	.458+01	.444+02	.413+03
.30	.334-02	.120-01	.144-00	.167+01	.104+00	.895-00	.606+01	.402-02
.40	.173-02	.595-02	.466-01	.396-00	.462-01	.297-00	.158+01	.838+01
.50	.105-02	.351-02	.213-01	.141-00	.246-01	.131-00	.584-00	.261+01
.70	.504-03	.163-02	.731-02	.345-01	.982-02	.400-01	.140-00	.494-00
1.00	.241-03	.753-03	.265-02	.926-02	.373-02	.123-01	.345-01	.964-01
H2 - SUBSHELL								
.02	.139+01	.424+05	.164+08	.157+10	.349+02	.601+04	.400+06	.170+08
.05	.174-00	.473+03	.594+05	.299+07	.228+01	.126+03	.452+04	.134+06
.10	.277-01	.169+02	.101+04	.296+05	.297-00	.811+01	.162+03	.314+04
.15	.881-02	.253+01	.101+03	.213+04	.913-01	.170+01	.257+02	.355+03
.20	.384-02	.674-00	.203+02	.341+03	.392-01	.574-00	.595+01	.771+02
.30	.118-02	.109+00	.227+01	.275+02	.125-01	.129-00	.114+01	.934+01
.40	.511-03	.313-01	.502-00	.488-01	.556-02	.457-01	.326-00	.216+01
.50	.269-03	.122-01	.161-00	.133+01	.297-02	.207-01	.126-00	.714-00
.70	.104-03	.306-02	.309-01	.199-00	.116-02	.649-02	.314-01	.141-00
1.00	.391-04	.755-03	.585-02	.298-01	.425-03	.196-02	.760-02	.273-01
H3 - SUBSHELL								
.02	.253+01	.527+05	.188+08	.170+10	.299+01	.116+06	.255+09	.625+11
.05	.245-00	.530+03	.596+05	.276+07	.186-00	.120+04	.517+06	.499+08
.10	.329-01	.165+02	.859+03	.229+05	.229-01	.381+02	.542+04	.240+06
.15	.950-02	.220+01	.745+02	.143+04	.676-02	.511+01	.407+03	.119+05
.20	.387-02	.533-00	.134+02	.202+03	.286-02	.123+01	.674+02	.150+04
.30	.108-02	.734-01	.122+01	.132+02	.859-03	.168-00	.569+01	.883+02
.40	.435-03	.183-01	.229-00	.196+01	.368-03	.413-01	.103+01	.127+02
.50	.217-03	.635-02	.638-01	.456-00	.192-03	.140-01	.283-00	.292+01
.70	.778-04	.133-02	.969-02	.534-01	.726-04	.279-02	.421-01	.342-00
1.00	.271-04	.267-03	.141-02	.606-02	.263-04	.518-03	.591-02	.384-01

TABLE 1.2.04 (CONTINUED)

Z=84

ICC H-SHELL

X	F1	F2	F3	F4	n1	n2	n3	n4
n4 - SUBSHELL								
.02	.164+01	.806+03	.443+07	.813+10	.507-00	.200+04	.216+07	.501+09
.05	.590-01	.766+01	.710+04	.356+07	.279-01	.198+02	.578+04	.295+06
.10	.395-02	.235-00	.365+02	.119+05	.202-02	.608-00	.743+02	.408+07
.15	.773-03	.301-01	.345+01	.454+03	.472-03	.797-01	.613+01	.234-03
.20	.240-03	.706-02	.488-00	.464+02	.160-03	.190-01	.107+01	.316+02
.30	.459-04	.930-03	.326-01	.197+01	.374-04	.254-02	.945-01	.197+01
.40	.142-04	.225-03	.500-02	.221-00	.125-04	.614-03	.174-01	.235-00
.50	.583-05	.762-04	.121-02	.418-01	.560-05	.263-03	.475-02	.653-01
.70	.135-05	.153-04	.154-03	.363-02	.159-05	.398-04	.692-03	.739-02
1.00	.378-06	.291-05	.191-04	.300-03	.414-06	.704-05	.932-04	.778-03
n5 - SUBSHELL								
.02	.215+01	.678+03	.741+07	.104+11	.270-00	.114+03	.724+07	.360+11
.05	.732-01	.629+01	.115+05	.426+07	.125-01	.120+01	.120+05	.116+09
.10	.468-02	.170-00	.360+02	.130+05	.115-02	.398-01	.956+02	.402+05
.15	.894-03	.214-01	.495+01	.459+03	.216-03	.559-02	.565+01	.946+03
.20	.273-03	.480-02	.659-00	.436+02	.993-04	.141-02	.774-00	.922+02
.30	.517-04	.591-03	.392-01	.163+01	.234-04	.211-03	.470-01	.342+01
.40	.161-04	.137-03	.542-02	.163-00	.838-05	.565-04	.652-02	.343-00
.50	.662-05	.451-04	.119-02	.278-01	.380-05	.207-04	.143-02	.599-01
.70	.179-05	.883-03	.127-03	.201-02	.117-05	.478-03	.145-03	.447-02
1.00	.476-06	.172-05	.130-04	.124-03	.349-06	.107-05	.144-04	.303-03
TOTAL n - SHELL								
.02	.856+01	.974+05	.472+08	.218+11	.340+03	.286+06	.287+09	.120+12
.05	.719-00	.103+04	.139+06	.136+08	.222+02	.343+04	.626+06	.648+08
.10	.109+00	.343+02	.204+04	.783+05	.285+01	.136+03	.748+04	.306+06
.15	.364+01	.488+01	.187+03	.455+04	.872-00	.222+02	.639+03	.158+05
.20	.167-01	.125+01	.357+02	.648-03	.378-00	.641+01	.121+03	.211+04
.30	.570-02	.196-00	.370+01	.460+02	.118+00	.119+01	.130+02	.143+03
.40	.271-02	.559-01	.788-00	.762+01	.522-01	.385-00	.297+01	.238+02
.50	.155-02	.221-01	.248-00	.199+01	.280-01	.166-00	.996-00	.657+01
.70	.689-03	.604-02	.482-01	.293-00	.111-01	.493-01	.215-00	.989-00
1.00	.308-03	.178-02	.994-02	.456-01	.419-02	.147-01	.461-01	.163-00

TABLE 1.2.05

Z=88

ICC M SHEL

K	E1	E2	E3	E4	M1	M2	M3	M4
M1 - SUBSHELL								
.02	.815-00	.107+04	.727+05	.204+07	.453+03	.253+06	.353+08	.204+10
.05	.170-00	.191+02	.126+04	.374+05	.295+02	.320+04	.133+06	.393+07
.10	.422-01	.826-00	.430+02	.101+04	.380+01	.135+03	.257+04	.424+05
.15	.176-01	.151-00	.573+01	.110+03	.116+01	.230+02	.289+03	.357+04
.20	.928-02	.536-01	.142+01	.225+02	.502-00	.663+01	.654+02	.597+03
.30	.372-02	.160-01	.227-00	.257+01	.156-00	.132+01	.883+01	.576+02
.40	.195-02	.759-02	.708-01	.607-00	.691-01	.437-00	.229+01	.120+02
.50	.120-02	.443-02	.312-01	.213-00	.369-01	.191-00	.842-00	.372+01
.70	.586-03	.206-02	.103-01	.505-01	.146-01	.582-01	.201-00	.701-00
1.00	.236-03	.957-03	.362-02	.131-01	.551-02	.177-01	.492-01	.136-00
M2 - SUBSHELL								
.02	.140+01	.607+05	.236+08	.213+10	.546+02	.905+04	.559+06	.208+08
.05	.194-00	.680+03	.845+05	.410+07	.359+01	.189+03	.634+04	.177+06
.10	.327-01	.245+02	.144+04	.408+05	.470-00	.119+02	.237+03	.424+04
.15	.107-01	.368+01	.144+03	.296+04	.145-00	.251+01	.365+02	.467+03
.20	.477-02	.964-00	.292+02	.476+03	.635-01	.853-00	.992+01	.107+03
.30	.151-02	.161-00	.328+01	.389+02	.201-01	.193-00	.164+01	.131+02
.40	.664-03	.462-01	.732-00	.697+01	.696-02	.689-01	.476-00	.367+01
.50	.534-03	.181-01	.236-00	.191+01	.461-02	.315-01	.166-00	.102+01
.70	.140-03	.457-02	.458-01	.291-00	.189-02	.995-02	.466-01	.205-00
1.00	.536-04	.114-02	.878-02	.441-01	.700-03	.304-02	.115-01	.404-01
M3 - SUBSHELL								
.02	.266+01	.724+05	.257+08	.217+10	.383+01	.179+06	.418+09	.140+12
.05	.272-00	.729+03	.797+05	.351+07	.238-00	.156+04	.837+06	.917+08
.10	.378-01	.227+02	.114+04	.292+05	.293-01	.590+02	.666+04	.383+06
.15	.111-01	.303+01	.988+02	.183+04	.866-02	.790+01	.643+03	.187+05
.20	.458-02	.732-00	.176+02	.259+03	.367-02	.190+01	.106+03	.234+04
.30	.130-02	.101+00	.163+01	.170+02	.110-02	.259-00	.866+01	.137+03
.40	.529-03	.252-01	.305-00	.253+01	.472-03	.634-01	.150+01	.194+02
.50	.266-03	.870-02	.851-01	.593-00	.246-03	.214-01	.436-00	.446+01
.70	.961-04	.181-02	.129-01	.699-01	.929-04	.423-02	.644-01	.519-00
1.00	.336-04	.363-03	.189-02	.759-02	.335-04	.778-03	.899-02	.581-01

TABLE 1.2.05 (CONTINUED)

Z=28

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M4 - SUBSHELL								
.02	.196+01	.113+04	.652+07	.127+11	.675-00	.320+04	.352+07	.792+09
.05	.741-01	.111+02	.105+05	.555+07	.311-01	.320+02	.928+04	.932+06
.10	.514-02	.337-00	.637+02	.184+05	.279-02	.983-00	.119+03	.639+04
.15	.103-02	.437-01	.512+01	.701+03	.659-03	.129-00	.980+01	.567-02
.20	.322-03	.103-01	.725-00	.717+02	.233-03	.308-01	.171-01	.496+02
.30	.628-04	.138-02	.484-01	.306+01	.521-04	.712-02	.157-00	.311+01
.40	.197-04	.336-03	.746-02	.343-00	.184-04	.997-03	.279-01	.465-00
.50	.610-05	.114-03	.181-02	.651+01	.802-05	.334-03	.765-02	.104+00
.70	.214-05	.230-0-	.230-03	.567-02	.228-05	.647-04	.112-02	.118-01
1.00	.535-06	.499-05	.287-04	.470-03	.597-06	.115-04	.151-03	.125-02

M5 - SUBSHELL

.02	.257+01	.869+03	.112+08	.162+11	.550-00	.160+02	.122+06	.645+11
.05	.910-01	.613+01	.174+05	.653+07	.165-01	.168+01	.202+05	.205+08
.10	.600-02	.231-00	.131+03	.198+05	.153-02	.556-01	.161+03	.527+05
.15	.117-02	.284-01	.753+01	.897-03	.371-03	.779-02	.955+01	.175+04
.20	.560-02	.644-02	.100+01	.663+02	.134-03	.197-02	.150+01	.159-02
.30	.691-04	.798-03	.596-01	.246+01	.318-04	.294-02	.783-01	.582+01
.40	.217-04	.186-03	.822-02	.247-00	.114-04	.786-04	.108-01	.584-00
.50	.897-05	.616-04	.180-02	.422-01	.520-05	.289-04	.236-02	.101+00
.70	.245-05	.122-04	.131-03	.305-02	.161-05	.666-05	.242-03	.747-02
1.00	.652-06	.238-05	.193-04	.202-03	.478-05	.149-05	.230-04	.512-05

TOTAL M - SHELL

.02	.941+01	.156-06	.671+08	.332+11	.512+03	.445+06	.469+09	.207+12
.05	.802-00	.145+04	.193+06	.197+08	.334+02	.527+04	.101+07	.107+09
.10	.124+00	.486+02	.284+04	.109+06	.430-01	.207+03	.117+05	.489+06
.15	.416-01	.693+01	.261+03	.629-04	.132+01	.335+02	.989+03	.247+05
.20	.193-01	.179+01	.501+02	.896+03	.570-00	.962+01	.184+03	.326+04
.30	.665-02	.280-00	.524+01	.640+02	.177-00	.178+01	.196+02	.216+03
.40	.319-02	.795-01	.117+01	.107+02	.785-01	.571-00	.440+01	.355+02
.50	.184-02	.314-01	.356-00	.282+01	.420-01	.245-00	.147+01	.940+01
.70	.827-03	.848-02	.694-01	.420-00	.166-01	.725-01	.314-05	.144+01
1.00	.375-03	.247-02	.143-01	.659-01	.624-02	.216-01	.698-01	.236-00

TABLE 1.2.06

Z=92

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M1 - SUBSHELL								
.02	.768-00	.158+04	.977+05	.245+07	.688+03	.393+06	.555+02	.303+10
.05	.171-00	.302+02	.174+04	.479+05	.448+02	.492+04	.204+06	.582+07
.10	.439-01	.141+01	.640+02	.139+04	.575+01	.205+03	.385+04	.622+05
.15	.187-01	.256-00	.888+01	.158+03	.176+01	.346+02	.429+03	.490+04
.20	.100-01	.858-01	.225+01	.332+02	.760-00	.102+02	.963+02	.864+03
.30	.410-02	.230-01	.356-00	.350+01	.236-00	.197+01	.129+02	.830+02
.40	.219-02	.103-01	.109+00	.923-00	.104+00	.646-00	.332+01	.171+02
.50	.136-02	.569-02	.468-01	.322-00	.556-01	.282-00	.122+01	.530+01
.70	.679-03	.269-02	.148-01	.746-01	.218-01	.852-01	.290-00	.995-00
1.00	.338-03	.124-02	.506-02	.188-01	.821-02	.250-01	.704-01	.193-00
M2 - SUBSHELL								
.02	.138+01	.873+05	.342+08	.287+10	.675+02	.137+05	.776+06	.245+08
.05	.214-00	.983+03	.120+06	.557+07	.575+01	.281+03	.687+04	.232+06
.10	.382-01	.356+02	.205+04	.561+05	.754-00	.177+02	.334+03	.570+04
.15	.129-01	.537+01	.203+03	.409+04	.234-00	.373+01	.516+02	.665+03
.20	.587-02	.144+01	.419+02	.664+03	.103+00	.127+01	.141+02	.147+03
.30	.191-02	.237-00	.475+01	.549+02	.326-01	.290-00	.237+01	.153+02
.40	.857-03	.686-01	.107+01	.993+01	.146-01	.104+00	.693-00	.494+01
.50	.464-03	.269-01	.347-00	.274+01	.785-02	.479-01	.272-00	.144+01
.70	.187-03	.687-02	.679-01	.423-00	.310-02	.153-01	.695-01	.498-00
1.00	.732-04	.173-02	.132-01	.650-01	.116-02	.472-02	.173-01	.595-01
M3 - SUBSHELL								
.02	.273+01	.995+05	.347+08	.276+10	.486+01	.277+06	.677+09	.234+12
.05	.299-00	.100+04	.106+06	.443+07	.303-00	.287+04	.134+07	.132+09
.10	.430-01	.312+02	.150+04	.368+05	.372-01	.911+02	.137+05	.606+06
.15	.129-01	.415+01	.130+03	.231+04	.110-01	.122+02	.101+04	.293+05
.20	.537-02	.101+01	.234+02	.328+03	.466-02	.294+01	.165+03	.363+04
.30	.154-02	.138-00	.215+01	.216+02	.140-02	.397-00	.137+02	.210+03
.40	.636-03	.345-01	.404-00	.325+01	.600-03	.969-01	.246+01	.296+02
.50	.322-03	.119-01	.113+00	.762-00	.313-03	.327-01	.669-00	.676+01
.70	.118-03	.247-02	.172-01	.907-01	.118-03	.642-02	.981-01	.784-00
1.00	.415-04	.492-03	.252-02	.105-01	.426-04	.117-02	.137-01	.875-01

TABLE 1.2.06 (CONTINUED)

Z=92

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M4 - SUBSHELL								
.02	.231+01	.158+04	.944+07	.197+11	.851-00	.513+04	.568+07	.173+10
.05	.919-01	.158+02	.153+05	.947+07	.416-01	.516+02	.148+05	.145+07
.10	.659-02	.485-00	.172+03	.261+05	.380-02	.159+01	.188+03	.988+04
.15	.134-02	.634-01	.750+01	.107+04	.905-03	.209-00	.155+02	.569+03
.20	.427-03	.151-01	.100+01	.109+03	.323-03	.497-01	.271+01	.772+02
.30	.843-04	.203-02	.710-01	.468+01	.742-04	.666-02	.241-00	.485+01
.40	.268-04	.498-03	.110-01	.526-00	.258-04	.161-02	.445-01	.709-00
.50	.111-04	.170-03	.267-02	.999-01	.113-04	.541-03	.122-01	.163-00
.70	.296-05	.344-04	.340-03	.875-02	.324-05	.105-03	.179-02	.167-01
1.00	.748-06	.659-05	.427-04	.729-03	.852-06	.186-04	.245-03	.200-02

M5 - SUBSHELL

.02	.300+01	.110+04	.167+08	.248+11	.448-00	.221+03	.204+08	.114+12
.05	.111+00	.104+02	.263+05	.968+07	.214-01	.222+01	.337+05	.358+08
.10	.758-02	.299-00	.197+03	.298+05	.201-02	.765-01	.267+03	.907+05
.15	.150-02	.370-01	.114+02	.104+04	.491-03	.107-01	.109+02	.294+04
.20	.467-03	.643-02	.151+01	.992+02	.179-03	.270-02	.215+01	.265+03
.30	.908-04	.106-02	.898-01	.372+01	.426-04	.402-03	.129-00	.979+01
.40	.268-04	.249-03	.124-01	.571-00	.154-04	.103-03	.178-01	.976-00
.50	.119-04	.822-04	.270-02	.632-01	.699-05	.396-04	.385-02	.168-00
.70	.328-05	.165-04	.284-03	.458-02	.217-05	.913-05	.392-03	.124-01
1.00	.884-06	.324-05	.285-04	.303-03	.646-06	.205-05	.366-04	.827-03

TOTAL M - SHELL

.02	.102+02	.191+06	.952+08	.502+11	.781+03	.689+06	.760+09	.352+12
.05	.888-00	.204+04	.269+06	.284+08	.509+02	.812+04	.160+07	.176+05
.10	.139-00	.690+02	.393+04	.152+06	.655+01	.315+03	.183+05	.775+06
.15	.473-01	.989+01	.363+03	.866+04	.200+01	.508+02	.152+04	.384+05
.20	.221-01	.256+01	.701+02	.123+04	.668-00	.145+02	.281+03	.499+04
.30	.773-02	.401-00	.741+01	.888+02	.270-00	.266+01	.293+02	.326+03
.40	.374-02	.114+00	.160+01	.150+02	.119+00	.849-00	.654+01	.528+02
.50	.217-02	.450-01	.512-00	.399+01	.638-01	.363-00	.217+01	.139+02
.70	.590-03	.121-01	.101+00	.602-00	.251-01	.107+00	.460-00	.211+01
1.00	.454-03	.347-02	.208-01	.554-01	.942-02	.318-01	.102+00	.342-00

TABLE 1.2.07

Z=96

ICC M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M1 - SUBSHELL								
.02	.713-00	.235+04	.133+06	.284+07	.105+04	.610+06	.872+08	.441+10
.05	.170-00	.471+02	.241+04	.611+05	.685+02	.756+04	.312+06	.860+07
.10	.453-01	.236+01	.936+02	.189+04	.879+01	.311+03	.577+04	.908+05
.15	.197-01	.433-00	.135+02	.223+03	.268+01	.522+02	.637+03	.711+04
.20	.107-01	.141-00	.349+01	.483+02	.116+01	.154+02	.142+03	.125+04
.30	.449-02	.351-01	.561-00	.582+01	.359-00	.293+01	.188+02	.119+03
.40	.244-02	.149-01	.169-00	.139+01	.158-00	.957-00	.482+01	.245+02
.50	.153-02	.823-02	.710-01	.464-00	.843-01	.416-00	.176+01	.755+01
.70	.781-03	.364-02	.218-01	.110+00	.330-01	.125-00	.417-00	.141+01
1.00	.397-03	.166-02	.720-02	.272-01	.123-01	.378-01	.101+00	.273-00

M2 - SUBSHELL

.02	.131+01	.126+06	.494+08	.384+10	.142+03	.208+05	.107+07	.275+08
.05	.231-00	.143+04	.171+06	.757+07	.936+01	.420+03	.124+05	.304+06
.10	.440-01	.519+02	.291+04	.769+05	.123+01	.263+02	.470+03	.763+04
.15	.154-01	.786+01	.293+03	.564+04	.382-00	.557+01	.731+02	.905+03
.20	.714-02	.212+01	.600+02	.924+03	.168-00	.190+01	.202+02	.202+03
.30	.239-02	.351-00	.687+01	.773+02	.537-01	.437-00	.342+01	.256+02
.40	.110-02	.102+00	.155+01	.141+02	.241-01	.158-00	.101+01	.613+01
.50	.602-03	.403-01	.509-00	.392+01	.130-01	.731-01	.400-00	.209+01
.70	.248-03	.104-01	.101+00	.614-00	.515-02	.236-01	.103+00	.431-00
1.00	.995-04	.263-02	.198-01	.958-01	.193-02	.736-02	.260-01	.876-01

M3 - SUBSHELL

.02	.287+01	.136+06	.467+08	.346+10	.612+01	.428+06	.109+10	.387+12
.05	.326-00	.138+04	.140+06	.553+07	.381-00	.442+04	.213+07	.212+09
.10	.485-01	.430+02	.197+04	.459+05	.469-01	.140+03	.215+05	.951+06
.15	.148-01	.573+01	.170+03	.288+04	.139-01	.187+02	.158+04	.454+05
.20	.623-02	.138+01	.306+02	.412+03	.588-02	.450+01	.256+03	.559+04
.30	.182-02	.190-00	.281+01	.273+02	.176-02	.607-00	.211+02	.319+03
.40	.757-03	.473-01	.529-00	.412+01	.757-03	.148-00	.376+01	.448+02
.50	.386-03	.163-01	.148-00	.971-00	.394-03	.497-01	.102+01	.102+02
.70	.142-03	.336-02	.226-01	.116+00	.148-03	.971-02	.149-00	.117+01
1.00	.505-04	.664-03	.331-02	.136-01	.534-04	.175-02	.206-01	.130-00

TABLE 1.2.07 (CONTINUED)

Z=96

100 M SHELL

K	E1	E2	E3	E4	M1	M2	M3	M4
M4 - SUBSHELL								
.02	.270+01	.225+04	.135+08	.302+11	.116+01	.824+04	.906+07	.190+10
.05	.112+00	.224+02	.221+05	.128+08	.551-01	.828+02	.233+05	.222+07
.10	.833-02	.697-00	.176+03	.423+05	.511-02	.256+01	.295+03	.151+05
.15	.173-02	.920-01	.108+02	.161+04	.123-02	.336-00	.243+02	.871+03
.20	.556-03	.220-01	.154+01	.165+03	.441-03	.802-01	.424+01	.119+05
.30	.112-03	.298-02	.103+00	.707+01	.102-03	.108-01	.378-00	.747+01
.40	.359-04	.734-03	.159-01	.796-00	.357-04	.261-02	.701-01	.110+01
.50	.149-04	.251-03	.388-02	.152-00	.157-04	.872-03	.193-01	.254-00
.70	.403-05	.511-04	.495-03	.133-01	.453-05	.169-03	.285-02	.292-01
1.00	.102-05	.977-05	.624-04	.111-02	.119-05	.299-04	.390-03	.315-02

M5 - SUBSHELL

.02	.348+01	.138+04	.249+08	.376+11	.568-00	.303+03	.335+08	.197+12
.05	.135-00	.131+02	.392+05	.148+08	.275-01	.317+01	.554+05	.615+08
.10	.942-02	.381-00	.296+03	.442+05	.261-02	.104+00	.439+03	.154+06
.15	.189-02	.477-01	.170+02	.155+04	.640-03	.145-01	.260+02	.495+04
.20	.595-03	.109-01	.227+01	.147+03	.234-03	.365-02	.351+01	.449+03
.30	.117-03	.139-02	.134-00	.549+01	.562-04	.544-03	.211-00	.162+02
.40	.375-04	.328-03	.184-01	.549-00	.203-04	.145-03	.289-01	.161+01
.50	.157-04	.110-03	.401-02	.936-01	.926-05	.535-04	.623-02	.276-00
.70	.433-05	.220-04	.419-03	.677-02	.287-05	.123-04	.628-03	.201-01
1.00	.117-05	.435-05	.415-04	.447-03	.855-06	.277-05	.576-04	.134-02

TOTAL M - SHELL

.02	.111+02	.268+06	.135+09	.751+11	.120+04	.107+07	.122+10	.590+12
.05	.974-00	.289+04	.375+06	.407+08	.783+02	.125+05	.253+07	.285+09
.10	.156-00	.983+02	.544+04	.211+06	.101+02	.480+03	.285+05	.122+07
.15	.535-01	.142+02	.505+03	.119+05	.308+01	.769+02	.234+04	.593+05
.20	.252-01	.368+01	.979+02	.170+04	.133+01	.219+02	.426+03	.761+04
.30	.893-02	.580-00	.105+02	.123+03	.414-00	.396+01	.439+02	.486+03
.40	.436-02	.165-00	.229+01	.210+02	.183-00	.127+01	.970+01	.781+02
.50	.255-02	.651-01	.736-00	.562+01	.977-01	.540-00	.320+01	.204+02
.70	.118-02	.174-01	.146-00	.861-00	.383-01	.159-00	.672-00	.307+01
1.00	.549-03	.496-02	.304-01	.138-00	.143-01	.469-01	.148-00	.495-00

TABLE 2.1

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DYNAMIC CORRECTION COEFFICIENTS
FOR CONVERSION COEFFICIENTS OF
E1 AND M1
TRANSITIONS

TABLE 2.1.01

Z=60

DC ICC E1, M1

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
K - SHELL							
.10	-.352-01	.997-03	.528-05	-.180-03	.815-08	-.188-01	.884-04
.15	-.353-01	.134-02	.366-05	-.205-03	.105-07	-.190-01	.906-04
.20	-.365-01	.169-02	.371-05	-.227-03	.150-07	-.192-01	.927-04
.30	-.364-01	.242-02	.266-05	-.267-03	.185-07	-.195-01	.967-04
.40	-.338-01	.314-02	.227-07	-.305-03	.258-07	-.199-01	.101-03
.50	-.296-01	.384-02	-.416-05	-.345-03	.361-07	-.202-01	.104-03
.70	-.186-01	.511-02	-.167-04	-.437-03	.700-07	-.208-01	.112-03
1.00	-.273-03	.666-02	-.436-04	-.608-03	.166-06	-.216-01	.123-03
L1 - SUBSHELL							
.02	-.824-01	.484-02	.201-04	-.430-03	.468-07	-.192-01	.920-04
.05	-.564-01	.263-02	.101-04	-.313-03	.247-07	-.193-01	.935-04
.10	-.499-01	.244-02	.802-05	-.294-03	.217-07	-.196-01	.959-04
.15	-.479-01	.268-02	.729-05	-.301-03	.227-07	-.198-01	.982-04
.20	-.467-01	.298-02	.654-05	-.314-03	.248-07	-.200-01	.100-03
.30	-.435-01	.371-02	.408-05	-.344-03	.308-07	-.204-01	.105-03
.40	-.390-01	.446-02	.351-07	-.378-03	.397-07	-.207-01	.109-03
.50	-.334-01	.518-02	-.562-05	-.417-03	.526-07	-.210-01	.113-03
.70	-.204-01	.648-02	-.212-04	-.510-03	.946-07	-.216-01	.121-03
1.00	-.311-03	.804-02	-.527-04	-.687-03	.210-06	-.225-01	.132-03
L2 - SUBSHELL							
.02	.137-01	.258-02	-.119-04	-.363-04	.136-07	-.275-02	.192-05
.05	.197-01	.270-02	-.133-04	-.579-04	.164-07	-.328-02	.273-05
.10	.262-01	.336-02	-.184-04	-.896-04	.252-07	-.400-02	.406-05
.15	.310-01	.405-02	-.243-04	-.121-03	.369-07	-.463-02	.544-05
.20	.349-01	.471-02	-.309-04	-.153-03	.514-07	-.521-02	.687-05
.30	.416-01	.604-02	-.462-04	-.223-03	.907-07	-.625-02	.992-05
.40	.471-01	.729-02	-.638-04	-.297-03	.145-06	-.721-02	.132-04
.50	.520-01	.850-02	-.836-04	-.378-03	.216-06	-.811-02	.167-04
.70	.605-01	.108-01	-.130-03	-.555-03	.418-06	-.977-02	.243-04
1.00	.713-01	.140-01	-.214-03	-.854-03	.898-06	-.121-01	.371-04
L3 - SUBSHELL							
.02	.000	.000	.000	-.290-04	.731-08	.000	.000
.05	.000	.000	.000	-.445-04	.851-08	.000	.000
.10	.000	.000	.000	-.628-04	.114-07	.000	.000
.15	.000	.000	.000	-.770-04	.145-07	.000	.000
.20	.000	.000	.000	-.890-04	.176-07	.000	.000
.30	.000	.000	.000	-.109-03	.261-07	.000	.000
.40	.000	.000	.000	-.124-03	.313-07	.000	.000
.50	.000	.000	.000	-.137-03	.394-07	.000	.000
.70	.000	.000	.000	-.157-03	.599-07	.000	.000
1.00	.000	.000	.000	-.177-03	.104-06	.000	.000
TOTAL L - SHELL							
.02	-.130-01	.177-02	.640-06	-.114-03	.173-07	-.175-01	.829-04
.05	-.187-01	.172-02	.106-05	-.159-03	.170-07	-.178-01	.848-04
.10	-.242-01	.200-02	.140-05	-.201-03	.198-07	-.181-01	.875-04
.15	-.272-01	.235-02	.129-05	-.232-03	.232-07	-.184-01	.900-04
.20	-.289-01	.272-02	.787-06	-.287-03	.269-07	-.187-01	.923-04
.30	-.295-01	.348-02	-.151-05	-.302-03	.360-07	-.191-01	.968-04
.40	-.275-01	.424-02	-.549-05	-.345-03	.479-07	-.196-01	.101-03
.50	-.238-01	.496-02	-.111-04	-.389-03	.640-07	-.200-01	.105-03
.70	-.138-01	.628-02	-.264-04	-.487-03	.112-06	-.207-01	.114-03
1.00	.328-02	.738-02	-.577-04	-.666-03	.238-06	-.218-01	.126-03

TITLE 2.1.02

Z=64

DC ICC LI, *

K	A1(EI)	A2(LI)	A3(EL)	A4(EL) K - SHELL	A5(EL)	C1(LI)	C2(LI)
15	-.455-01	.217-02	.555-05	-.237-02	.165-07	-.425-01	.127-07
20	-.464-01	.271-02	.605-05	-.282-05	.190-07	-.428-01	.130-07
30	-.454-01	.378-02	.424-05	-.377-05	.277-07	-.252-01	.155-07
40	-.418-01	.463-02	.359-07	-.371-03	.362-07	-.230-01	.142-07
50	-.365-01	.533-02	-.046-05	-.410-03	.552-07	-.240-01	.147-07
70	-.224-01	.742-02	-.252-04	.525-03	.105-05	-.240-01	.150-07
1.00	-.348-03	.975-02	-.651-04	-.727-03	.244-06	-.253-01	.175-07
L1 - SUBSHELL							
05	-.791-01	.511-02	.400-04	-.453-03	.474-07	-.230-01	.153-07
10	-.072-01	.441-02	.140-04	-.392-03	.581-07	-.233-01	.135-05
15	-.652-01	.457-02	.150-04	-.394-03	.389-07	-.226-01	.135-05
20	-.607-01	.507-02	.117-04	-.405-03	.412-07	-.238-01	.142-07
30	-.555-01	.616-02	.085-05	-.446-03	.400-07	-.243-01	.144-05
40	-.490-01	.716-02	.504-07	-.474-03	.621-07	-.247-01	.154-05
50	-.414-01	.817-02	.466-05	-.519-05	.817-07	-.251-01	.160-07
70	-.245-01	.997-02	.432-04	.027-03	.144-06	-.255-01	.177-07
1.00	-.502-03	.121-01	-.806-04	-.837-03	.216-06	-.270-01	.189-07
L2 - SUBSHELL							
02	.176-01	.421-02	-.225-04	-.480-04	.267-07	-.372-02	.551-05
05	.249-01	.475-02	-.439-04	-.755-04	.300-07	-.425-02	.441-05
10	.325-01	.582-02	-.344-04	-.114-03	.739-07	-.542-02	.052-05
15	.581-01	.662-02	-.406-04	-.153-05	.627-07	-.598-02	.906-05
20	.426-01	.777-02	-.507-04	-.192-03	.656-07	-.687-02	.113-04
30	.501-01	.945-02	-.736-04	-.276-03	.147-06	-.792-02	.150-04
40	.562-01	.112-01	-.100-05	-.505-05	.220-06	-.900-02	.260-04
50	.616-01	.129-02	-.129-03	-.461-03	.335-06	-.101-01	.260-04
70	.708-01	.150-01	-.196-04	-.689-03	.631-06	-.121-01	.271-04
1.00	.821-01	.203-01	-.517-03	-.102-02	.131-05	-.144-01	.557-04
L3 - SUBSHELL							
02	.000	.000	.000	-.275-07	.125-07	.000	.000
05	.000	.000	.000	-.552-04	.146-07	.000	.050
10	.000	.000	.000	-.786-04	.187-07	.000	.000
15	.000	.000	.000	-.964-04	.235-07	.000	.000
20	.000	.000	.000	-.111-03	.475-07	.000	.000
30	.000	.000	.000	-.124-05	.269-07	.000	.000
40	.000	.000	.000	-.153-03	.463-07	.000	.000
50	.000	.000	.000	-.168-03	.562-07	.000	.000
70	.000	.000	.000	-.150-03	.785-07	.000	.000
1.00	.000	.000	.000	-.211-05	.121-06	.000	.000
TOTAL L - SHELL							
05	-.236-01	.312-02	.155-05	-.205-03	.308-07	-.212-01	.170-05
10	-.301-01	.349-02	.191-05	-.250-03	.345-07	-.216-01	.174-05
15	-.336-01	.400-02	.154-05	-.293-05	.399-07	-.219-01	.127-03
20	-.335-01	.434-02	.567-06	-.423-03	.452-07	-.222-01	.151-02
30	-.357-01	.566-02	-.340-05	-.371-03	.589-07	-.223-01	.137-05
40	-.329-01	.676-02	-.542-05	-.427-05	.769-07	-.233-01	.145-05
50	-.282-01	.779-02	-.168-04	-.479-03	.101-06	-.238-01	.149-05
70	-.159-01	.942-02	-.425-04	-.455-03	.174-06	-.240-01	.162-05
1.00	.444-02	.114-01	-.894-04	-.808-03	.362-06	-.261-01	.160-05

TABLE 2.1.6:

 $z=0.8$

DC ICC E1, 1

λ	$A1(E1)$	$A2(E1)$	$A3(E1)$	$A4(E1)$	$A5(E1)$	$C1(E1)$	$C2(E1)$
K - SPEL							
.15	-.357-01	.357-02	.102-04	-.325-03	.262-07	-.247-01	.178-03
.20	-.392-01	.437-02	.597-05	-.357-03	.310-07	-.270-01	.183-03
.30	-.373-01	.599-02	.080-05	-.403-03	.421-07	-.275-01	.191-03
.40	-.520-01	.753-02	.570-07	-.457-03	.572-07	-.281-01	.190-03
.50	-.777-01	.899-02	-.102-04	-.508-03	.792-07	-.286-01	.207-03
.70	-.272-01	.115-01	-.392-04	-.637-03	.153-06	-.293-01	.220-03
1.00	-.643-03	.177-01	-.902-04	-.874-03	.364-06	-.309-01	.277-03
L1 - SUBSHELL							
.05	-.112-00	.106-01	.401-04	-.604-03	.925-07	-.277-01	.168-03
.10	-.917-01	.511-02	.278-06	-.521-03	.703-07	-.277-01	.152-03
.15	-.847-01	.824-02	.235-06	-.520-03	.678-07	-.280-01	.197-03
.20	-.797-01	.877-02	.200-06	-.527-03	.697-07	-.283-01	.201-03
.30	-.713-01	.102-01	.117-06	-.557-03	.801-07	-.289-01	.210-03
.40	-.620-01	.117-01	.524-07	-.565-03	.905-07	-.294-01	.219-03
.50	-.517-01	.151-01	-.148-04	-.678-03	.127-06	-.300-01	.227-03
.70	-.505-01	.155-01	-.520-06	-.775-03	.322-06	-.305-01	.244-03
1.00	-.522-03	.184-01	-.125-03	-.102-07	.464-06	-.327-01	.269-03
L2 - SUBSHELL							
.05	.314-01	.858-02	-.730-04	-.978-04	.551-07	-.577-02	.347-03
.10	.405-01	.950-02	-.544-04	-.147-03	.777-07	-.681-02	.177-03
.15	.472-01	.110-01	-.387-04	-.155-03	.105-06	-.771-02	.151-03
.20	.525-01	.123-01	-.842-04	-.273-03	.175-06	-.853-02	.177-03
.30	.607-01	.130-01	-.119-03	-.747-03	.241-06	-.100-01	.257-03
.40	.675-01	.174-01	-.159-03	-.411-02	.369-06	-.114-01	.327-03
.50	.733-01	.198-01	-.203-03	-.565-03	.533-06	-.126-01	.474-03
.70	.871-01	.271-01	-.302-03	-.810-03	.976-06	-.150-01	.567-03
1.00	.948-01	.293-01	-.475-03	-.121-07	.198-05	-.151-01	.630-03
L3 - SUBSHELL							
.05	.000	.000	.000	-.710-04	.277-07	.000	.000
.10	.000	.000	.000	-.096-04	.310-07	.000	.000
.15	.000	.000	.000	-.171-03	.378-07	.000	.000
.20	.000	.000	.000	-.150-03	.745-07	.000	.000
.30	.000	.000	.000	-.107-03	.577-07	.000	.000
.40	.000	.000	.000	-.188-03	.707-07	.000	.000
.50	.000	.000	.000	-.205-03	.838-07	.000	.000
.70	.000	.000	.000	-.230-03	.111-05	.000	.000
1.00	.000	.000	.000	-.253-03	.156-05	.000	.000
TOTAL L - Shell							
.05	-.301-01	.371-02	.225-03	-.252-03	.562-07	-.252-01	.170-03
.10	-.378-01	.515-02	.251-03	-.327-03	.607-07	-.257-01	.173-03
.15	-.419-01	.690-02	.153-03	-.373-03	.684-07	-.261-01	.180-03
.20	-.438-01	.769-02	-.309-06	-.405-03	.770-07	-.263-01	.185-03
.30	-.736-01	.954-02	-.722-03	-.472-03	.960-07	-.271-01	.194-03
.40	-.397-01	.109-01	-.100-04	-.532-03	.126-06	-.278-01	.202-03
.50	-.356-01	.124-01	-.323-04	-.555-03	.107-06	-.284-01	.211-03
.70	-.183-01	.150-01	-.694-04	-.732-03	.270-06	-.295-01	.229-03
1.00	.598-02	.170-01	-.141-03	-.926-03	.567-06	-.311-01	.255-03

TABLE 2.1.04

Z=72

DC FCC E1, E2

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
K - SHELL							
.15	-.769-01	.597-02	.174-04	-.409-03	.421-07	-.516-01	.250-05
.20	-.765-01	.719-02	.168-04	-.442-03	.491-07	-.320-01	.256-05
.30	-.729-01	.935-02	.113-04	-.501-03	.547-07	-.326-01	.258-05
.40	-.654-01	.119-03	.915-07	-.555-03	.867-07	-.355-01	.279-05
.50	-.556-01	.141-03	-.163-04	-.622-03	.120-06	-.339-01	.291-05
.70	-.335-01	.177-03	-.610-04	-.771-03	.252-06	-.351-01	.314-05
1.00	-.568-05	.217-03	-.151-03	-.106-02	.552-06	-.568-01	.548-05
L1 - SUBSHELL							
.05	-.160-00	.201-01	.821-07	-.851-03	.184-06	-.326-01	.266-05
.10	-.126-00	.152-01	.532-04	-.717-03	.130-06	-.330-01	.272-05
.15	-.114-00	.149-01	.434-04	-.692-03	.120-06	-.334-01	.279-05
.20	-.103-00	.154-01	.361-04	-.692-03	.120-06	-.338-01	.285-05
.30	-.925-01	.173-01	.203-04	-.710-03	.135-06	-.344-01	.297-05
.40	-.791-01	.197-01	.168-06	-.751-03	.159-06	-.351-01	.310-05
.50	-.652-01	.215-01	-.246-04	-.818-03	.209-06	-.357-01	.327-05
.70	-.377-01	.247-01	-.859-04	-.960-03	.351-06	-.569-01	.346-05
1.00	-.681-05	.283-01	-.198-03	-.126-02	.757-06	-.386-01	.362-05
L2 - SUBSHELL							
.05	.599-01	.150-01	-.768-04	-.125-03	.104-06	-.763-02	.147-07
.10	.508-01	.164-01	-.957-04	-.116-03	.140-06	-.867-02	.196-04
.15	.586-01	.184-01	-.113-03	-.250-03	.190-06	-.995-02	.250-07
.20	.646-01	.207-01	-.142-02	-.309-03	.251-06	-.100-01	.302-04
.30	.739-01	.241-01	-.196-03	-.452-03	.406-06	-.127-01	.407-04
.40	.814-01	.276-01	-.257-02	-.562-03	.505-06	-.145-01	.516-04
.50	.878-01	.309-01	-.324-03	-.659-03	.666-06	-.152-01	.625-04
.70	.961-01	.367-01	-.471-03	-.905-03	.155-05	-.185-01	.867-04
1.00	.110-00	.445-01	-.725-03	-.146-02	.306-05	-.262-01	.125-05
L3 - SUBSHELL							
.05	.000	.000	.000	-.921-04	.425-07	.000	.000
.10	.000	.000	.000	-.127-03	.522-07	.000	.000
.15	.000	.000	.000	-.153-03	.624-07	.000	.000
.20	.000	.000	.000	-.175-03	.725-07	.000	.000
.30	.000	.000	.000	-.203-03	.921-07	.000	.000
.40	.000	.000	.000	-.233-03	.111-05	.000	.000
.50	.000	.000	.000	-.253-03	.125-06	.000	.000
.70	.000	.000	.000	-.281-03	.165-06	.000	.000
1.00	.000	.000	.000	-.305-03	.219-06	.000	.000
TOTAL L - SHELL							
.05	-.367-01	.106-01	.322-03	-.340-03	.104-06	-.301-01	.241-05
.10	-.479-01	.110-01	.504-03	-.422-03	.110-06	-.306-01	.248-05
.15	-.525-01	.121-01	.101-05	-.477-03	.121-06	-.311-01	.255-05
.20	-.545-01	.132-01	-.271-05	-.521-03	.134-06	-.315-01	.261-05
.30	-.535-01	.136-01	-.149-04	-.596-03	.167-06	-.323-01	.274-05
.40	-.481-01	.179-01	-.331-04	-.667-03	.211-06	-.331-01	.283-05
.50	-.402-01	.200-01	-.564-04	-.741-03	.271-06	-.338-01	.295-05
.70	-.214-01	.256-01	-.115-02	-.907-03	.450-06	-.352-01	.320-05
1.00	.804-02	.270-01	-.225-03	-.121-02	.900-06	-.372-01	.361-05

TABLE 2.1.04 (CO. F11 050)

Z=72

DC 100 E1,11

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(F1)	C1(E1)	C2(E1)
m1 - SUBSHELL							
.02	-.251-06	.758-01	.208-03	-.131-02	.755-06	-.327-01	.251-02
.05	-.165-00	.271-01	.507-06	-.095-03	.206-06	-.529-01	.271-01
.10	-.171-00	.170-01	.595-04	-.703-03	.166-00	-.553-01	.277-01
.15	-.118-00	.185-01	.761-04	-.755-03	.130-06	-.357-01	.281-01
.20	-.110-00	.159-01	.596-04	-.752-03	.135-03	-.370-01	.292-03
.30	-.952-01	.177-01	.270-04	-.754-01	.140-06	-.367-01	.302-01
.40	-.811-01	.207-01	.104-06	-.755-01	.177-00	-.554-01	.314-03
.50	-.667-01	.220-01	-.201-06	-.850-03	.220-06	-.560-01	.327-03
.70	-.384-01	.254-01	-.901-04	-.998-03	.315-00	-.372-01	.351-03
1.00	-.705-03	.293-01	-.200-03	-.130-02	.800-00	-.389-01	.387-03
m2 - SUBSHELL							
.02	.632-01	.294-01	-.144-03	-.101-03	.176-00	-.742-02	.159-01
.05	.580-01	.203-01	-.100-05	-.186-03	.170-06	-.822-02	.171-01
.10	.626-01	.197-01	-.115-03	-.252-03	.160-00	-.937-02	.222-01
.15	.669-01	.210-01	-.135-03	-.287-03	.218-06	-.104-01	.273-01
.20	.714-01	.227-01	-.155-03	-.344-03	.250-00	-.113-01	.325-01
.30	.792-01	.261-01	-.213-03	-.406-03	.442-06	-.151-01	.451-01
.40	.836-01	.277-01	-.277-03	-.596-03	.655-03	-.170-01	.542-01
.50	.915-01	.320-01	-.342-03	-.753-03	.924-06	-.101-01	.550-01
.70	.161+00	.325-01	-.791-03	-.102-02	.104-05	-.180-01	.896-01
1.00	.113+00	.459-01	-.749-03	-.150-02	.323-03	-.275-01	.125-03
m3 - SUBSHELL							
.02	.000	.000	.000	-.124-03	.717-07	.000	.000
.05	.000	.000	.000	-.131-03	.579-07	.000	.000
.10	.000	.000	.000	-.155-03	.633-07	.000	.000
.15	.000	.000	.000	-.177-03	.725-07	.000	.000
.20	.000	.000	.000	-.176-03	.827-07	.000	.000
.30	.000	.000	.000	-.226-03	.105-03	.000	.000
.40	.000	.000	.000	-.330-03	.127-06	.000	.000
.50	.000	.000	.000	-.268-03	.146-03	.000	.000
.70	.000	.000	.000	-.294-03	.197-00	.000	.000
1.00	.000	.000	.000	-.310-03	.294-06	.000	.000
m4 - SUBSHELL							
.02	.000	.000	.000	-.271-03	.016-10	.000	.000
.05	.000	.000	.000	-.602-05	.249-09	.000	.000
.10	.000	.000	.000	-.125-04	.177-08	.000	.000
.15	.000	.000	.000	-.196-04	.497-08	.000	.000
.20	.000	.000	.000	-.277-04	.142-07	.000	.000
.30	.000	.000	.000	-.459-04	.775-07	.000	.000
.40	.000	.000	.000	-.656-04	.240-00	.000	.000
.50	.000	.000	.000	-.868-04	.590-00	.000	.000
.70	.000	.000	.000	-.125-03	.230-03	.000	.000
1.00	.000	.000	.000	-.192-03	.948-03	.000	.000
TOTAL - SHELL							
.02	-.265-01	.126-01	.272-03	-.277-03	.125-06	-.298-01	.259-03
.05	-.375-01	.115-01	.310-03	-.364-03	.110-06	-.302-01	.273-01
.10	-.404-01	.120-01	.257-03	-.442-03	.122-06	-.307-01	.250-07
.15	-.510-01	.150-01	-.275-06	-.490-03	.135-06	-.511-01	.257-03
.20	-.579-01	.172-01	-.451-05	-.540-03	.148-06	-.515-01	.263-03
.30	-.610-01	.166-01	-.179-04	-.615-03	.104-06	-.527-01	.271-01
.40	-.765-01	.169-01	-.372-04	-.680-03	.253-06	-.552-01	.283-03
.50	-.537-01	.210-01	-.610-04	-.751-03	.295-06	-.559-01	.301-01
.70	-.199-01	.275-01	-.123-03	-.929-03	.707-06	-.755-01	.320-01
1.00	-.900-02	.205-01	-.235-03	-.124-02	.972-06	-.575-01	.341-01

TABLE 2.1.05

Z=76

DC FCC 11.11

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(M1)	C2(M1)
K - SHELL							
.15	-.101-00	.101-01	.501-07	-.527-03	.602-07	-.374-01	.375-03
.20	-.100-00	.120-01	.207-04	-.506-03	.777-07	-.378-01	.357-03
.30	-.900-01	.107-01	.103-07	-.022-05	.996-07	-.336-01	.074-05
.40	-.027-01	.190-01	.146-06	-.080-03	.132-06	-.597-01	.390-03
.50	-.606-01	.220-01	-.200-04	-.701-03	.101-00	-.701-03	.706-03
.70	-.710-01	.270-01	-.970-07	-.937-03	.002-06	-.710-01	.429-03
1.00	-.722-03	.320-01	-.205-03	-.120-02	.002-06	-.730-01	.487-03
L1 - SUBSHELL							
.05	-.232-00	.409-01	.171-03	-.120-02	.372-05	-.507-01	.370-03
.10	-.170-00	.230-01	.103-03	-.970-03	.203-05	-.592-01	.307-03
.15	-.150-00	.272-01	.110-04	-.925-03	.210-06	-.596-01	.307-03
.20	-.141-00	.270-01	.656-04	-.911-03	.205-06	-.401-01	.402-03
.30	-.121-00	.290-01	.300-07	-.927-02	.221-05	-.709-01	.419-03
.40	-.102-00	.370-01	.239-06	-.970-03	.250-06	-.417-01	.706-03
.50	-.027-01	.351-01	-.410-07	-.100-02	.320-06	-.427-01	.450-03
.70	-.409-01	.390-01	-.141-03	-.121-02	.550-06	-.730-01	.737-03
1.00	-.500-03	-.41-01	-.210-03	-.100-02	.110-03	-.400-01	.550-03
L2 - SUBSHELL							
.05	.512-01	.270-01	-.140-03	-.170-03	.190-06	-.100-01	.750-04
.10	.630-01	.200-01	-.169-03	-.240-03	.200-06	-.110-01	.350-04
.15	.729-01	.310-01	-.204-03	-.320-03	.350-06	-.120-01	.410-04
.20	.801-01	.340-01	-.240-03	-.390-03	.450-06	-.130-01	.490-04
.30	.900-01	.390-01	-.320-03	-.540-02	.007-05	-.160-01	.640-04
.40	.900-01	.440-01	-.410-03	-.700-03	.101-05	-.170-01	.800-04
.50	.100-00	.400-01	-.520-02	-.560-02	.140-05	-.190-01	.970-04
.70	.110-00	.560-01	-.740-03	-.121-02	.200-05	-.220-01	.100-04
1.00	.120-00	.660-01	-.111-02	-.170-02	.070-05	-.270-01	.190-03
L3 - SUBSHELL							
.05	.000	.000	.000	-.110-05	.730-07	.000	.000
.10	.000	.000	.000	-.161-03	.870-07	.000	.000
.15	.000	.000	.000	-.190-03	.100-00	.000	.000
.20	.000	.000	.000	-.220-03	.110-05	.000	.000
.30	.000	.000	.000	-.260-03	.140-05	.000	.000
.40	.000	.000	.000	-.280-05	.170-06	.000	.000
.50	.000	.000	.000	-.310-03	.200-06	.000	.000
.70	.000	.000	.000	-.340-03	.250-06	.000	.000
1.00	.000	.000	.000	-.360-03	.320-06	.000	.000
TOTAL L - SHELL							
.05	-.500-01	.190-01	.737-05	-.442-05	.190-06	-.350-01	.340-03
.10	-.611-01	.190-01	.300-03	-.540-03	.190-06	-.400-01	.440-03
.15	-.060-01	.210-01	-.130-03	-.610-03	.210-06	-.360-01	.550-03
.20	-.060-01	.230-01	-.070-03	-.600-03	.200-06	-.370-01	.350-03
.30	-.650-01	.260-01	-.501-04	-.700-03	.280-06	-.360-01	.380-03
.40	-.520-01	.290-01	-.600-04	-.020-03	.350-06	-.390-01	.400-03
.50	-.480-01	.320-01	-.090-04	-.940-03	.450-06	-.400-01	.420-03
.70	-.240-01	.370-01	-.190-03	-.110-02	.730-06	-.410-01	.460-03
1.00	.100-01	.420-01	-.260-03	-.100-02	.140-05	-.440-01	.500-03

TABLE 2.1.65 (CONTINUED)

Z=70

DC ICC E1,1

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
r1 - SUSHELL							
.02	-.392-00	.101+00	.438-00	-.190-02	.980-06	-.369-01	.577-00
.05	-.256-00	.447-01	.200-03	-.127-02	.612-00	-.391-01	.302-00
.10	-.102-00	.123-01	.116-03	-.107-02	.279-00	-.096-01	.391-00
.15	-.160-00	.300-01	.003-04	-.507-03	.240-00	-.700-01	.400-00
.20	-.147-00	.500-01	.720-04	-.069-03	.250-06	-.700-01	.409-00
.30	-.120+00	.327-01	.300-07	-.074-03	.246-06	-.413-01	.426-00
.40	-.104-00	.300-01	.310-06	-.107-02	.200-00	-.720-01	.400-00
.50	-.847-01	.075-00	-.442-04	-.108-02	.300-00	-.428-01	.401-00
.70	-.478-01	.417-01	-.140-02	-.100-02	.597-06	-.442-01	.400-00
1.00	-.918-03	.401-01	-.329-03	-.101-02	.120-00	-.400-01	.500-00
r2 - SUSHELL							
.02	.902-01	.509-01	-.300-03	-.200-00	.300-00	-.992-02	.200-00
.05	.777-01	.379-01	-.200-03	-.200-03	.270-06	-.107-01	.200-00
.10	.801-01	.300-01	-.200-03	-.310-03	.017-00	-.122-01	.370-00
.15	.851-01	.360-01	-.237-03	-.376-00	.092-00	-.104-01	.400-00
.20	.897-01	.303-01	-.274-00	-.405-00	.493-00	-.145-01	.500-00
.30	.970-01	.420-01	-.007-00	-.500-03	.700-06	-.100-01	.000-00
.40	.100+00	.470-01	-.400-03	-.700-00	.110-00	-.100-01	.800-00
.50	.111+00	.516-01	-.500-02	-.914-00	.102-00	-.201-01	.100-00
.70	.120-00	.502-01	-.770-03	-.100-02	.200-00	-.200-01	.100-00
1.00	.100-00	.690-01	-.110-02	-.100-02	.001-00	-.200-01	.100-00
r3 - SUSHELL							
.02	.000	.000	.000	-.100-03	.100-06	.000	.000
.05	.000	.000	.000	-.100-03	.100-06	.000	.000
.10	.000	.000	.000	-.200-00	.100-03	.000	.000
.15	.000	.000	.000	-.200-03	.122-06	.000	.000
.20	.000	.000	.000	-.200-03	.100-03	.000	.000
.30	.000	.000	.000	-.200-03	.100-03	.000	.000
.40	.000	.000	.000	-.300-03	.100-00	.000	.000
.50	.000	.000	.000	-.300-03	.220-06	.000	.000
.70	.000	.000	.000	-.300-03	.200-00	.000	.000
1.00	.000	.000	.000	-.300-03	.500-00	.000	.000
r4 - SUSHELL							
.02	.000	.000	.000	-.200-00	.171-00	.000	.000
.05	.000	.000	.000	-.200-00	.100-00	.000	.000
.10	.000	.000	.000	-.200-00	.100-00	.000	.000
.15	.000	.000	.000	-.200-00	.100-00	.000	.000
.20	.000	.000	.000	-.200-00	.100-00	.000	.000
.30	.000	.000	.000	-.200-00	.100-00	.000	.000
.40	.000	.000	.000	-.200-00	.100-00	.000	.000
.50	.000	.000	.000	-.200-00	.100-00	.000	.000
.70	.000	.000	.000	-.200-00	.100-00	.000	.000
1.00	.000	.000	.000	-.200-00	.100-00	.000	.000
TOTAL r - SUSHELL							
.02	-.241-01	.241-01	.400-05	-.350-00	.200-06	-.300-01	.500-00
.05	-.478-01	.277-01	.300-03	-.400-03	.270-06	-.300-01	.300-00
.10	-.058-01	.277-01	.143-00	-.574-03	.221-06	-.300-01	.300-00
.15	-.439-01	.277-01	-.700-00	-.600-00	.238-00	-.370-01	.300-00
.20	-.057-01	.277-01	-.121-04	-.601-00	.250-00	-.370-01	.300-00
.30	-.000-01	.282-01	-.339-04	-.700-00	.100-00	-.380-01	.300-00
.40	-.062-01	.314-01	-.600-00	-.800-00	.000-00	-.390-01	.400-00
.50	-.062-01	.314-01	-.100-00	-.900-00	.400-00	-.400-01	.400-00
.70	-.220-01	.250-01	-.700-00	-.110-02	.800-06	-.420-01	.400-00
1.00	.121-01	.440-01	-.382-00	-.100-02	.100-00	-.400-01	.500-00

TABLE 2.1.06

Z=80

DC 100 E1,0

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
K - Shell							
.20	-.132-00	.203-01	.493-04	-.699-03	.123-06	-.445-01	.493-03
.30	-.120-00	.250-01	.316-04	-.770-03	.122-06	-.455-01	.518-03
.40	-.103-00	.310-01	.232-05	-.847-03	.118-06	-.467-01	.540-03
.50	-.073-01	.353-01	-.128-04	-.878-03	.272-05	-.473-01	.562-03
.70	-.503-01	-.20-01	-.135-03	-.117-02	.533-06	-.490-01	.608-03
1.00	-.916-03	.002-01	-.303-03	-.157-02	.126-07	-.513-01	.676-03
L1 - Subshell							
.05	-.339-00	.139-01	.350-02	-.171-02	.749-06	-.452-01	.523-03
.10	-.243-00	.552-01	.201-05	-.153-02	.457-06	-.463-01	.537-03
.15	-.210-00	.501-01	.152-03	-.123-02	.384-06	-.468-01	.570-03
.20	-.160-00	.473-01	.120-03	-.120-02	.360-06	-.473-01	.581-03
.30	-.158-00	.518-01	.632-04	-.119-02	.385-06	-.467-01	.567-03
.40	-.131-00	.531-01	.490-06	-.123-02	.417-06	-.492-01	.608-03
.50	-.105-00	.587-01	-.701-04	-.130-02	.517-06	-.501-01	.621-03
.70	-.585-01	.635-01	-.231-03	-.130-02	.276-05	-.519-01	.678-03
1.00	-.113-02	.602-01	-.302-03	-.192-02	.167-05	-.513-01	.775-03
L2 - Subshell							
.05	.060-01	.501-01	-.273-05	-.225-02	.372-06	-.131-01	.435-04
.10	.011-01	.500-01	-.203-03	-.231-03	.461-05	-.140-01	.537-04
.15	.910-01	.520-01	-.313-03	-.411-03	.392-06	-.163-01	.574-04
.20	.992-01	.548-01	-.413-03	-.502-03	.750-05	-.177-01	.709-04
.30	.111-00	.639-01	-.542-03	-.683-03	.715-05	-.201-01	.102-03
.40	.120-00	.703-01	-.684-03	-.873-03	.160-05	-.223-01	.123-03
.50	.127-00	.767-01	-.836-03	-.107-02	.232-05	-.233-01	.140-03
.70	.137-00	.872-01	-.110-02	-.147-02	.306-05	-.280-01	.193-03
1.00	.140-00	.101-00	-.171-02	-.212-02	.745-05	-.333-01	.276-03
L3 - Subshell							
.05	.000	.000	.000	-.152-02	.127-06	.000	.000
.10	.000	.000	.000	-.204-03	.146-06	.000	.000
.15	.000	.000	.000	-.247-03	.170-06	.000	.000
.20	.000	.000	.000	-.277-03	.193-06	.000	.000
.30	.000	.000	.000	-.323-03	.230-05	.000	.000
.40	.000	.000	.000	-.357-03	.277-06	.000	.000
.50	.000	.000	.000	-.383-03	.315-06	.000	.000
.70	.000	.000	.000	-.415-03	.385-06	.000	.000
1.00	.000	.000	.000	-.437-03	.479-06	.000	.000
TOTAL L - Shell							
.05	-.657-01	.272-01	.491-03	-.372-03	.363-06	-.424-01	.473-03
.10	-.707-01	.363-01	.822-03	-.701-03	.358-06	-.431-01	.708-03
.15	-.839-01	.379-01	-.800-03	-.782-03	.379-06	-.437-01	.560-03
.20	-.630-01	.402-01	-.212-04	-.843-03	.400-06	-.442-01	.512-03
.30	-.813-01	.451-01	-.593-04	-.943-03	.490-06	-.454-01	.536-03
.40	-.717-01	.497-01	-.111-03	-.103-02	.603-06	-.464-01	.539-03
.50	-.581-01	.556-01	-.177-03	-.115-02	.758-06	-.474-01	.582-03
.70	-.282-01	.604-01	-.323-03	-.139-02	.721-05	-.497-01	.631-03
1.00	.143-01	.671-01	-.567-03	-.183-02	.233-05	-.522-01	.704-03

TABLE 2.1.06 (CONTINUED)

Z=60

DC ICC E1, M1

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(M1)	C2(M1)
M1 - SUBSHELL							
.02	-.592-00	.220-00	.101-02	-.280-02	.212-05	-.460-01	.529-03
.05	-.340-00	.899-01	.382-03	-.178-02	.625-06	-.463-01	.537-03
.10	-.253-00	.621-01	.226-03	-.143-02	.524-06	-.469-01	.549-03
.15	-.219-00	.562-01	.171-03	-.132-02	.464-06	-.474-01	.561-03
.20	-.197-00	.551-01	.134-03	-.128-02	.413-06	-.479-01	.573-03
.30	-.164-00	.568-01	.693-04	-.127-02	.413-06	-.488-01	.597-03
.40	-.135-00	.597-01	.548-06	-.130-02	.466-06	-.497-01	.620-03
.50	-.102-00	.627-01	-.755-04	-.137-02	.572-06	-.506-01	.644-03
.70	-.598-01	.677-01	-.246-03	-.157-02	.953-06	-.524-01	.591-03
1.00	-.119-02	.728-01	-.529-03	-.159-02	.199-05	-.549-01	.763-03
M2 - SUBSHELL							
.02	.130-00	.124-00	-.630-03	-.393-03	.804-06	-.132-01	.436-04
.05	.105+00	.716-01	-.391-03	-.356-03	.535-06	-.142-01	.510-04
.10	.104+00	.625-01	-.379-03	-.414-03	.577-06	-.158-01	.629-04
.15	.109+00	.630-01	-.420-03	-.493-03	.706-06	-.172-01	.745-04
.20	.113+00	.651-01	-.474-03	-.577-03	.871-06	-.185-01	.861-04
.30	.121+00	.709-01	-.602-03	-.756-03	.130-05	-.208-01	.109-03
.40	.128-00	.767-01	-.745-03	-.944-03	.184-05	-.230-01	.133-03
.50	.134-00	.823-01	-.899-03	-.114-02	.250-05	-.249-01	.157-03
.70	.143-00	.922-01	-.123-02	-.155-02	.422-05	-.286-01	.207-03
1.00	.154-00	.103+00	-.179-02	-.220-02	.784-05	-.336-01	.285-03
M3 - SUBSHELL							
.02	.000	.000	.000	-.239-03	.253-06	.000	.000
.05	.000	.000	.000	-.232-03	.183-06	.000	.000
.10	.000	.000	.000	-.262-03	.185-06	.000	.000
.15	.000	.000	.000	-.292-03	.204-06	.000	.000
.20	.000	.000	.000	-.318-03	.225-06	.000	.000
.30	.000	.000	.000	-.360-03	.267-06	.000	.000
.40	.000	.000	.000	-.390-03	.309-06	.000	.000
.50	.000	.000	.000	-.413-03	.349-06	.000	.000
.70	.000	.000	.000	-.441-03	.428-06	.000	.000
1.00	.000	.000	.000	-.459-03	.549-06	.000	.000
M4 - SUBSHELL							
.02	.000	.000	.000	-.554-05	.359-09	.000	.000
.05	.000	.000	.000	-.117-04	.821-09	.000	.000
.10	.000	.000	.000	-.228-04	.234-08	.000	.000
.15	.000	.000	.000	-.350-04	.565-08	.000	.000
.20	.000	.000	.000	-.482-04	.124-07	.000	.000
.30	.000	.000	.000	-.769-04	.465-07	.000	.000
.40	.000	.000	.000	-.108-03	.132-06	.000	.000
.50	.000	.000	.000	-.139-03	.305-06	.000	.000
.70	.000	.000	.000	-.202-03	.111-05	.000	.000
1.00	.000	.000	.000	-.293-03	.437-05	.000	.000
TOTAL M - SHELL							
.02	-.447-01	.465-01	.583-05	-.471-03	.459-06	-.422-01	.475-03
.05	-.618-01	.402-01	.396-05	-.623-03	.402-06	-.426-01	.483-03
.10	-.749-01	.396-01	-.216-05	-.744-03	.401-06	-.433-01	.495-03
.15	-.804-01	.413-01	-.133-04	-.822-03	.423-06	-.439-01	.507-03
.20	-.821-01	.433-01	-.285-04	-.884-03	.438-06	-.443-01	.519-03
.30	-.780-01	.483-01	-.707-04	-.989-03	.547-06	-.456-01	.543-03
.40	-.681-01	.528-01	-.126-03	-.109-02	.672-06	-.466-01	.567-03
.50	-.551-01	.568-01	-.193-03	-.119-02	.840-06	-.477-01	.591-03
.70	-.258-01	.634-01	-.350-03	-.144-02	.133-05	-.497-01	.639-03
1.00	.162-01	.700-01	-.622-03	-.188-02	.253-05	-.525-01	.712-03

TABLE 2.1.07

L=84

DC ICC 21.01

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
K - SHELL							
.20	-.175-00	.348-01	.855-04	-.876-03	.194-06	-.522-01	.650-03
.30	-.157-00	.431-01	.524-04	-.951-03	.252-06	-.503-01	.711-03
.40	-.135-00	.508-01	.565-06	-.103-02	.297-06	-.544-01	.742-03
.50	-.111-00	.572-01	-.700-04	-.115-02	.406-06	-.555-01	.775-03
.70	-.626-01	.673-01	-.248-03	-.137-02	.204-06	-.575-01	.834-03
1.00	-.115-02	.766-01	-.565-03	-.186-02	.194-06	-.605-01	.928-03
L1 - SUBSHELL							
.05	-.503-00	.176-00	.761-03	-.244-02	.154-03	-.541-01	.751-03
.10	-.345-00	.108+00	.400-03	-.183-02	.600-06	-.547-01	.747-03
.15	-.290-00	.844-01	.291-03	-.165-02	.695-06	-.553-01	.764-03
.20	-.257-00	.607-01	.227-03	-.158-02	.630-06	-.558-01	.790-03
.30	-.210-00	.915-01	.113-03	-.154-02	.609-06	-.569-01	.812-03
.40	-.171-00	.949-01	.836-06	-.157-02	.679-06	-.580-01	.844-03
.50	-.135-00	.904-01	-.110-03	-.164-02	.851-06	-.591-01	.875-03
.70	-.733-01	.104+00	-.303-03	-.187-02	.140-03	-.611-01	.939-03
1.00	-.147-02	.106+00	-.798-03	-.207-02	.293-06	-.640-01	.104-02
L2 - SUBSHELL							
.05	.867-01	.935-01	-.518-03	-.301-03	.714-06	-.171-01	.725-04
.10	.103+00	.887-01	-.546-03	-.418-03	.843-06	-.191-01	.920-04
.15	.115+00	.916-01	-.652-03	-.500-03	.106-03	-.208-01	.109-03
.20	.125-00	.963-01	-.711-03	-.640-03	.152-03	-.224-01	.126-03
.30	.137-00	.106+00	-.913-03	-.664-03	.190-03	-.252-01	.160-03
.40	.148-00	.115+00	-.113-02	-.109-02	.282-03	-.277-01	.194-03
.50	.153-00	.123+00	-.136-02	-.132-02	.383-03	-.301-01	.228-03
.70	.163-00	.136-00	-.125-02	-.150-02	.639-03	-.345-01	.297-02
1.00	.174-00	.153-00	-.264-02	-.250-02	.117-04	-.401-01	.405-03
L3 - SUBSHELL							
.05	.000	.000	.000	-.196-03	.216-06	.000	.000
.10	.000	.000	.000	-.260-03	.244-06	.000	.000
.15	.000	.000	.000	-.307-03	.278-06	.000	.000
.20	.000	.000	.000	-.346-03	.312-06	.000	.000
.30	.000	.000	.000	-.401-03	.376-06	.000	.000
.40	.000	.000	.000	-.470-03	.435-06	.000	.000
.50	.000	.000	.000	-.560-03	.492-06	.000	.000
.70	.000	.000	.000	-.501-03	.590-06	.000	.000
1.00	.000	.000	.000	-.515-03	.720-06	.000	.000
TOTAL L - SHELL							
.05	-.870-01	.712-01	.627-03	-.746-03	.685-06	-.501-01	.662-03
.10	-.102-00	.669-01	-.600-03	-.904-03	.653-06	-.509-01	.675-03
.15	-.103+00	.685-01	-.238-04	-.100-02	.672-06	-.516-01	.695-03
.20	-.108+00	.714-01	-.428-04	-.105-02	.722-06	-.522-01	.711-03
.30	-.101+00	.731-01	-.117-03	-.120-02	.850-06	-.535-01	.743-03
.40	-.276-01	.843-01	-.206-03	-.132-02	.103-03	-.547-01	.775-03
.50	-.701-01	.897-01	-.310-03	-.144-02	.123-03	-.559-01	.808-03
.70	-.324-01	.960-01	-.551-03	-.172-02	.202-03	-.582-01	.873-03
1.00	.191-01	.105+00	-.551-03	-.225-02	.373-03	-.619-01	.973-03

TABLE 2.1.07 (CONTINUED)

Z=84

DC ICC E1,M1

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(M1)	C2(M1)
M1 - SUBSHELL							
.02	-.906-00	.465-00	.227-02	-.424-02	.480-05	-.543-01	.738-03
.05	-.494-00	.185-00	.796-03	-.252-02	.165-05	-.547-01	.748-03
.10	-.357-00	.121+00	.447-03	-.196-02	.990-06	-.553-01	.764-03
.15	-.302-00	.106+00	.327-03	-.178-02	.803-06	-.559-01	.780-03
.20	-.267-00	.101+00	.250-03	-.170-02	.725-06	-.564-01	.796-03
.30	-.217-00	.101+00	.125-03	-.165-02	.693-06	-.575-01	.829-03
.40	-.176-00	.103+00	.939-06	-.167-02	.762-06	-.586-01	.861-03
.50	-.139-00	.106+00	-.129-03	-.173-02	.922-06	-.597-01	.893-03
.70	-.750-01	.111+00	-.408-03	-.196-02	.152-05	-.617-01	.957-03
1.00	-.156-02	.114+00	-.840-03	-.247-02	.313-05	-.646-01	.105-02
M2 - SUBSHELL							
.02	.192-00	.260-00	-.135-02	-.588-03	.174-05	-.173-01	.755-04
.05	.144-00	.137-00	-.760-03	-.496-03	.106-05	-.185-01	.865-04
.10	.137-00	.113+00	-.696-03	-.555-03	.108-05	-.203-01	.104-03
.15	.140-00	.111+00	-.751-03	-.650-03	.128-05	-.219-01	.121-03
.20	.144-00	.112+00	-.830-03	-.751-03	.155-05	-.234-01	.138-03
.30	.151-00	.118+00	-.102-02	-.962-03	.222-05	-.261-01	.172-03
.40	.157-00	.125-00	-.124-02	-.119-02	.309-05	-.286-01	.206-03
.50	.163-00	.132-00	-.147-02	-.142-02	.414-05	-.309-01	.240-03
.70	.171-00	.145-00	-.196-02	-.190-02	.679-05	-.350-01	.310-03
1.00	.180-00	.161-00	-.277-02	-.265-02	.123-04	-.407-01	.418-03
M3 - SUBSHELL							
.02	.000	.000	.000	-.334-03	.472-06	.000	.000
.05	.000	.000	.000	-.308-03	.322-06	.000	.000
.10	.000	.000	.000	-.340-03	.315-06	.000	.000
.15	.000	.000	.000	-.375-03	.340-06	.000	.000
.20	.000	.000	.000	-.404-03	.369-06	.000	.000
.30	.000	.000	.000	-.451-03	.430-06	.000	.000
.40	.000	.000	.000	-.485-03	.489-06	.000	.000
.50	.000	.000	.000	-.509-03	.546-06	.000	.000
.70	.000	.000	.000	-.536-03	.652-06	.000	.000
1.00	.000	.000	.000	-.549-03	.803-06	.000	.000
M4 - SUBSHELL							
.02	.000	.000	.000	-.790-03	.749-09	.000	.000
.05	.000	.000	.000	-.162-04	.157-08	.000	.000
.10	.000	.000	.000	-.308-04	.391-08	.000	.000
.15	.000	.000	.000	-.466-04	.806-08	.000	.000
.20	.000	.000	.000	-.635-04	.152-07	.000	.000
.30	.000	.000	.000	-.994-04	.458-07	.000	.000
.40	.000	.000	.000	-.137-03	.114-06	.000	.000
.50	.000	.000	.000	-.175-03	.247-06	.000	.000
.70	.000	.000	.000	-.250-03	.834-06	.000	.000
1.00	.000	.000	.000	-.353-03	.316-05	.000	.000
TOTAL M - SHELL							
.02	-.592-01	.904-01	.821-05	-.618-03	.880-06	-.499-01	.662-03
.05	-.806-01	.763-01	.176-05	-.816-03	.752-06	-.504-01	.672-03
.10	-.961-01	.730-01	-.124-04	-.963-03	.731-06	-.511-01	.688-03
.15	-.102+00	.746-01	-.348-04	-.106-02	.761-06	-.518-01	.705-03
.20	-.103+00	.773-01	-.633-04	-.113-02	.809-06	-.525-01	.721-03
.30	-.964-01	.836-01	-.138-03	-.125-02	.948-06	-.537-01	.752-03
.40	-.828-01	.897-01	-.233-03	-.137-02	.115-05	-.550-01	.784-03
.50	-.657-01	.949-01	-.343-03	-.149-02	.142-05	-.562-01	.817-03
.70	-.290-01	.103+00	-.594-03	-.178-02	.221-05	-.585-01	.883-03
1.00	.215-01	.110+00	-.101-02	-.231-02	.408-05	-.618-01	.963-03

TABLE 2.1.02

Z=68

DC TCC E1,1

K	A1(F1)	A2(L1)	A3(F1)	A4(E1)	A5(F1)	C1(L1)	C2(L1)
K - SHELL							
.30	-.207-00	.728-01	.450-04	-.120-02	.367-06	-.628-01	.920-02
.40	-.176-00	.653-01	.459-06	-.127-02	.461-06	-.640-01	.103-02
.50	-.142-00	.947-01	-.115-04	-.139-02	.631-05	-.553-01	.107-02
.70	-.787-01	.109-00	-.410-03	-.138-02	.127-05	-.677-01	.115-02
1.00	-.140-02	.121-00	-.911-03	-.277-02	.306-05	-.712-01	.126-02
L1 - SUBSHELL							
.05	-.787-00	.383-00	.169-02	-.528-02	.532-05	-.641-01	.103-02
.10	-.455-00	.217-00	.622-03	-.257-02	.170-05	-.647-01	.103-02
.15	-.707-00	.182-00	.570-03	-.277-02	.131-05	-.654-01	.107-02
.20	-.555-00	.171-00	.432-03	-.210-02	.115-05	-.661-01	.108-02
.30	-.252-00	.166-00	.210-03	-.207-02	.100-05	-.673-01	.113-02
.40	-.275-00	.167-00	.148-03	-.207-02	.115-05	-.686-01	.116-02
.50	-.176-00	.170-00	.215-03	-.211-02	.139-05	-.698-01	.122-02
.70	-.924-01	.177-00	-.358-03	-.208-02	.252-05	-.722-01	.131-02
1.00	-.185-02	.177-00	-.135-02	-.290-02	.404-05	-.756-01	.144-02
L2 - SUBSHELL							
.05	.115-00	.179-00	-.102-02	-.412-03	.145-05	-.225-01	.125-02
.10	.137-00	.162-00	-.102-02	-.558-03	.161-05	-.240-01	.155-02
.15	.147-00	.160-00	-.117-02	-.598-03	.198-05	-.286-01	.170-02
.20	.156-00	.167-00	-.127-02	-.637-03	.241-05	-.287-01	.203-02
.30	.170-00	.180-00	-.152-02	-.711-03	.354-05	-.317-01	.252-02
.40	.180-00	.191-00	-.192-02	-.734-03	.492-05	-.370-01	.301-02
.50	.180-00	.200-00	-.227-02	-.767-03	.656-05	-.373-01	.345-02
.70	.190-00	.217-00	-.507-02	-.227-02	.107-04	-.427-01	.448-02
1.00	.204-00	.250-00	-.470-02	-.512-02	.190-04	-.467-01	.597-02
L3 - SUBSHELL							
.05	.000	.000	.000	-.257-03	.535-06	.000	.000
.10	.000	.000	.000	-.355-03	.722-05	.000	.000
.15	.000	.000	.000	-.793-05	.472-06	.100	.000
.20	.000	.000	.000	-.446-03	.520-06	.000	.000
.30	.000	.000	.000	-.506-03	.622-05	.000	.000
.40	.000	.000	.000	-.552-03	.714-06	.000	.000
.50	.000	.000	.000	-.507-03	.798-05	.000	.000
.70	.000	.000	.000	-.615-03	.944-06	.000	.000
1.00	.000	.000	.000	-.675-03	.110-05	.000	.000
TOTAL L - SHELL							
.05	-.117-00	.140-00	-.130-03	-.990-03	.135-05	-.595-01	.929-02
.10	-.115-00	.120-00	-.201-04	-.717-02	.124-05	-.603-01	.952-02
.15	-.159-00	.127-00	-.623-04	-.131-02	.177-05	-.611-01	.975-02
.20	-.139-00	.130-00	-.710-03	-.170-02	.153-05	-.618-01	.995-02
.30	-.123-00	.138-00	-.237-03	-.174-02	.154-05	-.653-01	.107-02
.40	-.109-00	.146-00	-.389-03	-.188-02	.184-05	-.647-01	.108-02
.50	-.850-01	.153-00	-.560-03	-.183-02	.227-05	-.661-01	.112-02
.70	-.377-01	.163-00	-.664-03	-.217-02	.350-05	-.687-01	.121-02
1.00	.255-01	.171-00	-.161-02	-.252-02	.642-05	-.725-01	.155-02

TABLE 2.1.06 (CONT'D)

Z=88

DC ICC 21. 1

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
11 - SUBSHELL							
.02	-.271-01	.110-01	.520-02	-.040-02	.101-04	-.064-01	.104-01
.05	-.751-00	.50-00	.172-02	-.265-02	.578-03	-.042-01	.105-01
.10	-.005-00	.242-00	.916-03	-.275-02	.196-03	-.600-01	.117-01
.15	-.722-00	.205-01	.647-03	-.247-02	.152-03	-.662-01	.100-01
.20	-.555-00	.411-00	.733-03	-.250-02	.133-03	-.600-01	.117-01
.30	-.250-00	.183-00	.275-03	-.211-02	.101-03	-.681-01	.117-01
.40	-.250-00	.183-00	.166-03	-.211-02	.130-03	-.683-01	.170-01
.50	-.101-00	.144-00	-.731-03	-.227-02	.155-03	-.706-01	.175-01
.70	-.950-01	.187-00	-.703-03	-.270-02	.257-03	-.727-01	.157-01
1.00	-.205-02	.187-00	-.141-02	-.311-02	.519-03	-.704-01	.147-01
12 - SUBSHELL							
.02	.290-00	.558-00	-.301-02	-.912-03	.400-03	-.228-01	.151-01
.05	.200-00	.270-00	-.153-02	-.711-03	.213-03	-.242-01	.147-01
.10	.183-00	.310-00	-.153-02	-.707-03	.210-03	-.202-01	.175-01
.15	.183-00	.250-00	-.159-02	-.875-03	.272-03	-.231-01	.158-01
.20	.183-00	.170-00	-.150-02	-.856-03	.280-03	-.298-01	.227-01
.30	.190-00	.202-00	-.178-02	-.875-02	.397-03	-.325-01	.272-01
.40	.193-00	.210-00	-.212-02	-.853-02	.445-03	-.357-01	.306-01
.50	.200-00	.218-00	-.248-02	-.821-02	.713-03	-.380-01	.355-01
.70	.218-00	.232-00	-.322-02	-.257-02	.117-01	-.431-01	.457-01
1.00	.212-00	.250-00	-.442-02	-.726-01	.201-01	-.490-01	.515-01
13 - SUBSHELL							
.02	.000	.000	.000	-.474-03	.913-06	.000	.000
.05	.000	.000	.000	-.412-03	.580-06	.000	.000
.10	.000	.000	.000	-.430-03	.557-06	.000	.000
.15	.000	.000	.000	-.500-03	.580-06	.000	.000
.20	.000	.000	.000	-.524-03	.650-06	.000	.000
.30	.000	.000	.000	-.577-03	.711-06	.000	.000
.40	.000	.000	.000	-.617-03	.800-06	.000	.000
.50	.000	.000	.000	-.638-03	.892-06	.000	.000
.70	.000	.000	.000	-.655-03	.104-05	.000	.000
1.00	.000	.000	.000	-.680-03	.123-05	.000	.000
14 - SUBSHELL							
.02	.000	.000	.000	-.117-03	.162-08	.000	.000
.05	.000	.000	.000	-.250-04	.310-07	.000	.000
.10	.000	.000	.000	-.226-04	.727-08	.000	.000
.15	.000	.000	.000	-.337-04	.154-07	.000	.000
.20	.000	.000	.000	-.854-04	.278-07	.000	.000
.30	.000	.000	.000	-.131-03	.554-07	.000	.000
.40	.000	.000	.000	-.118-03	.120-06	.000	.000
.50	.000	.000	.000	-.225-03	.253-06	.000	.000
.70	.000	.000	.000	-.316-03	.697-06	.000	.000
1.00	.000	.000	.000	-.439-03	.275-05	.000	.000
TOTAL 14 - SHELL							
.02	-.793-01	.180-00	.901-03	-.027-03	.176-05	-.594-01	.951-01
.05	-.107-00	.143-00	-.643-03	-.100-02	.147-05	-.599-01	.945-01
.10	-.123-00	.138-00	-.367-04	-.128-02	.130-05	-.607-01	.966-01
.15	-.131-00	.178-00	-.640-04	-.130-02	.143-05	-.615-01	.988-01
.20	-.131-00	.141-00	-.138-03	-.148-02	.150-05	-.622-01	.101-01
.30	-.120-00	.178-00	-.277-03	-.102-02	.172-05	-.657-01	.107-01
.40	-.102-00	.156-00	-.401-03	-.176-02	.206-05	-.651-01	.110-01
.50	-.797-01	.162-00	-.025-06	-.191-02	.252-05	-.607-01	.117-01
.70	-.329-01	.172-00	-.104-03	-.220-02	.306-05	-.691-01	.175-01
1.00	.288-01	.179-00	-.171-02	-.791-02	.596-05	-.720-01	.157-01

TABLE 2.1.09

Z=92

CC ICC EL, 1

K	A1(L1)	A2(L1)	A3(L1)	A4(L1)	A5(L1)	C1(L1)	C2(L1)
K - S' ELI							
.30	-.277-00	.128-00	.164-03	-.148-02	.563-06	-.733-01	.134-02
.40	-.225-00	.177-00	.934-06	-.157-02	.695-06	-.748-01	.140-02
.50	-.184-00	.170-00	-.200-05	-.106-02	.952-06	-.762-01	.146-02
.70	-.591-01	.176-00	-.674-03	-.264-02	.194-05	-.790-01	.157-02
1.00	-.127-02	.191-00	-.170-02	-.744-02	.477-05	-.830-01	.174-02
L1 - SUBSHELL							
.05	-.116-01	.542-00	.377-02	-.524-02	.710-05	-.752-01	.142-02
.10	-.722-00	.441-00	.169-02	-.352-02	.333-05	-.706-01	.146-02
.15	-.576-00	.353-00	.114-02	-.306-02	.244-05	-.707-01	.147-02
.20	-.493-00	.324-00	.630-03	-.295-02	.205-05	-.775-01	.150-02
.30	-.382-00	.302-00	.389-03	-.205-02	.179-05	-.789-01	.150-02
.40	-.299-00	.297-00	.254-03	-.262-02	.139-05	-.804-01	.162-02
.50	-.230-00	.295-00	-.575-03	-.268-02	.225-05	-.818-01	.167-02
.70	-.135-00	.295-00	-.112-02	-.790-02	.775-05	-.875-01	.179-02
1.00	-.255-02	.258-00	-.720-02	-.570-02	.779-05	-.860-01	.197-02
L2 - SUBSHELL							
.05	.155-00	.578-00	-.200-02	-.562-02	.739-05	-.268-01	.208-02
.10	.175-00	.295-00	-.185-02	-.735-02	.503-05	-.314-01	.249-02
.15	.187-00	.290-00	-.204-02	-.908-03	.307-05	-.337-01	.285-02
.20	.198-00	.294-00	-.225-02	-.100-02	.777-05	-.357-01	.321-02
.30	.212-00	.305-00	-.273-02	-.171-02	.613-05	-.394-01	.390-02
.40	.221-00	.317-00	-.324-02	-.175-02	.835-05	-.427-01	.406-02
.50	.227-00	.327-00	-.577-02	-.203-02	.110-05	-.457-01	.425-02
.70	.234-00	.377-00	-.458-02	-.270-02	.175-04	-.513-01	.461-02
1.00	.239-00	.369-00	-.660-02	-.277-02	.203-04	-.587-01	.507-02
L3 - SUBSHELL							
.05	.000	.000	.000	-.357-03	.665-05	.000	.000
.10	.000	.000	.000	-.420-03	.707-05	.000	.000
.15	.000	.000	.000	-.790-03	.781-05	.000	.000
.20	.000	.000	.000	-.551-03	.859-05	.000	.000
.30	.000	.000	.000	-.650-02	.100-05	.000	.000
.40	.000	.000	.000	-.680-03	.114-05	.000	.000
.50	.000	.000	.000	-.712-03	.126-05	.000	.000
.70	.000	.000	.000	-.742-03	.147-05	.000	.000
1.00	.000	.000	.000	-.731-03	.173-05	.000	.000
TOTAL L - SHEL							
.05	-.158-00	.275-00	-.224-02	-.130-02	.201-05	-.700-01	.128-02
.10	-.177-00	.270-00	-.733-04	-.155-02	.232-05	-.709-01	.131-02
.15	-.161-00	.235-00	-.147-03	-.109-02	.232-05	-.718-01	.134-02
.20	-.179-00	.237-00	-.238-03	-.179-02	.241-05	-.720-01	.137-02
.30	-.161-00	.275-00	-.700-03	-.156-02	.273-05	-.742-01	.142-02
.40	-.135-00	.254-00	-.727-03	-.212-02	.323-05	-.753-01	.148-02
.50	-.104-00	.252-00	-.102-02	-.229-02	.392-05	-.774-01	.154-02
.70	-.533-01	.272-00	-.107-02	-.277-02	.595-05	-.804-01	.166-02
1.00	.353-01	.277-00	-.268-02	-.377-02	.107-04	-.848-01	.184-02

TABLE 2.1.09 (CONTINUED)

L=92

DU ICC E1,11

R	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
11 - SUBSHELL							
.02	-.223-01	.212-01	.173-01	-.562-02	.236-04	-.758-01	.143-02
.05	-.109-01	.825-00	.310-02	-.574-02	.770-05	-.762-01	.115-02
.10	-.733-00	.787-00	.157-02	-.567-02	.580-05	-.770-01	.148-02
.15	-.597-00	.392-00	.128-02	-.332-02	.284-05	-.777-01	.151-02
.20	-.510-00	.363-00	.951-05	-.505-02	.240-05	-.734-01	.154-02
.30	-.596-00	.308-00	.435-03	-.286-02	.200-05	-.799-01	.150-02
.40	-.709-00	.377-00	.292-05	-.281-02	.216-05	-.815-01	.165-02
.50	-.836-00	.322-00	-.402-05	-.286-02	.235-05	-.827-01	.171-02
.70	-.122-00	.316-00	-.121-02	-.515-02	.417-05	-.854-01	.183-02
1.00	-.268-02	.306-00	-.234-02	-.387-02	.800-05	-.895-01	.201-02
12 - SUBSHELL							
.02	.447-00	.177-01	-.680-02	-.142-02	.914-05	-.296-01	.220-05
.05	.281-00	.538-00	-.509-02	-.102-02	.446-05	-.312-01	.247-05
.10	.215-00	.394-00	-.252-02	-.106-02	.704-05	-.335-01	.281-05
.15	.259-00	.362-00	-.275-02	-.117-02	.450-05	-.335-01	.317-05
.20	.235-00	.311-00	-.259-02	-.131-02	.526-05	-.375-01	.332-05
.30	.240-00	.317-00	-.110-02	-.162-02	.702-05	-.409-01	.421-05
.40	.215-00	.352-00	-.360-02	-.194-02	.955-05	-.441-01	.439-05
.50	.246-00	.359-00	-.414-02	-.227-02	.121-05	-.471-01	.537-05
.70	.248-00	.573-00	-.524-02	-.254-02	.188-04	-.525-01	.692-05
1.00	.250-00	.390-00	-.698-02	-.387-02	.371-04	-.592-01	.809-05
13 - SUBSHELL							
.02	.000	.000	.000	-.665-05	.172-05	.000	.000
.05	.000	.000	.000	-.560-05	.103-05	.000	.000
.10	.000	.000	.000	-.587-05	.957-05	.000	.000
.15	.000	.000	.000	-.651-05	.595-06	.000	.000
.20	.000	.000	.000	-.665-05	.165-05	.000	.000
.30	.000	.000	.000	-.724-05	.117-05	.000	.000
.40	.000	.000	.000	-.785-05	.130-05	.000	.000
.50	.000	.000	.000	-.759-05	.142-05	.000	.000
.70	.000	.000	.000	-.806-05	.165-05	.000	.000
1.00	.000	.000	.000	-.791-05	.191-05	.000	.000
14 - SUBSHELL							
.02	.000	.000	.000	-.105-04	.339-06	.000	.000
.05	.000	.000	.000	-.320-04	.624-08	.000	.000
.10	.000	.000	.000	-.331-04	.125-07	.000	.000
.15	.000	.000	.000	-.156-04	.232-07	.000	.000
.20	.000	.000	.000	-.113-05	.368-07	.000	.000
.30	.000	.000	.000	-.170-05	.759-07	.000	.000
.40	.000	.000	.000	-.227-05	.145-06	.000	.000
.50	.000	.000	.000	-.284-05	.250-06	.000	.000
.70	.000	.000	.000	-.394-05	.686-06	.000	.000
1.00	.000	.000	.000	-.533-05	.204-05	.000	.000
107 - SUBSHELL							
.02	-.103-00	.360-00	.791-05	-.110-02	.346-05	-.700-01	.129-02
.05	-.145-00	.238-00	-.308-04	-.145-02	.287-05	-.706-01	.131-02
.10	-.164-00	.261-00	-.101-05	-.167-02	.260-05	-.715-01	.132-02
.15	-.169-00	.256-00	-.190-05	-.181-02	.262-05	-.723-01	.138-02
.20	-.167-00	.257-00	-.292-05	-.196-02	.272-05	-.731-01	.139-02
.30	-.151-00	.264-00	-.556-05	-.206-02	.207-05	-.777-01	.177-02
.40	-.125-00	.272-00	-.627-05	-.222-02	.363-05	-.765-01	.190-02
.50	-.957-01	.279-00	-.117-05	-.240-02	.460-05	-.779-01	.156-02
.70	-.566-01	.237-00	-.182-02	-.282-02	.859-05	-.800-01	.188-02
1.00	.265-01	.291-00	-.287-02	-.339-02	.116-04	-.853-01	.186-02

TABLE 2.1.10

Z=96

DC ICC E1, E2

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(E1)	C2(E1)
R - SHELL							
.30	-.375-00	.226-00	.294-03	-.115-02	.875-06	-.855-01	.184-02
.40	-.305-00	.249-00	.146-03	-.194-02	.106-05	-.872-01	.190-02
.50	-.240-00	.267-00	-.345-03	-.207-02	.145-05	-.803-01	.195-02
.70	-.126-00	.290-00	-.113-02	-.247-02	.304-05	-.921-01	.213-02
1.00	-.235-02	.306-00	-.258-02	-.332-02	.753-05	-.967-01	.237-02
L1 - SUBSHELL							
.10	-.108+01	.932-00	.370-02	-.519-02	.707-05	-.900-01	.203-02
.15	-.834-00	.720-00	.258-02	-.435-02	.490-05	-.909-01	.206-02
.20	-.699-00	.637-00	.169-02	-.395-02	.397-05	-.917-01	.210-02
.30	-.527-00	.571-00	.759-03	-.355-02	.327-05	-.934-01	.218-02
.40	-.404-00	.545-00	.470-05	-.346-02	.334-05	-.950-01	.226-02
.50	-.306-00	.530-00	-.695-03	-.353-02	.395-05	-.966-01	.253-02
.70	-.154-00	.509-00	-.201-02	-.387-02	.654-05	-.997-01	.249-02
1.00	-.356-02	.463-00	-.382-02	-.475-02	.135-04	-.104+00	.273-02
L2 - SUBSHELL							
.05	.212-00	.698-00	-.415-02	-.795-03	.618-05	-.373-01	.349-03
.10	.228-00	.559-00	-.370-02	-.101-02	.613-05	-.403-01	.407-03
.15	.243-00	.533-00	-.308-02	-.123-02	.708-05	-.428-01	.461-03
.20	.255-00	.528-00	-.419-02	-.144-02	.855-05	-.452-01	.512-03
.30	.267-00	.533-00	-.493-02	-.186-02	.115-04	-.484-01	.612-03
.40	.275-00	.543-00	-.574-02	-.227-02	.154-04	-.501-01	.709-03
.50	.279-00	.551-00	-.656-02	-.268-02	.198-04	-.566-01	.805-03
.70	.283-00	.567-00	-.825-02	-.349-02	.306-04	-.629-01	.994-03
1.00	.283-00	.587-00	-.109-01	-.471-02	.514-04	-.713-01	.120-02
L3 - SUBSHELL							
.05	.000	.000	.000	-.184-03	.207-06	.000	.000
.10	.000	.000	.000	-.230-03	.214-06	.000	.000
.15	.000	.000	.000	-.266-03	.233-06	.000	.000
.20	.000	.000	.000	-.293-03	.253-06	.000	.000
.30	.000	.000	.000	-.331-03	.292-06	.000	.000
.40	.000	.000	.000	-.355-03	.327-06	.000	.000
.50	.000	.000	.000	-.368-03	.359-06	.000	.000
.70	.000	.000	.000	-.378-03	.416-06	.000	.000
1.00	.000	.000	.000	-.368-03	.488-06	.000	.000
TOTAL L - SHELL							
.10	-.239-00	.470-00	-.193-03	-.197-02	.430-05	-.641-01	.184-02
.15	-.242-00	.450-00	-.341-03	-.215-02	.425-05	-.651-01	.184-02
.20	-.236-00	.445-00	-.517-03	-.226-02	.432-05	-.660-01	.191-02
.30	-.208-00	.449-00	-.936-03	-.248-02	.493-05	-.879-01	.199-02
.40	-.171-00	.456-00	-.142-02	-.268-02	.583-05	-.897-01	.206-02
.50	-.130-00	.461-00	-.194-02	-.290-02	.707-05	-.914-01	.214-02
.70	-.507-01	.466-00	-.304-02	-.342-02	.107-04	-.949-01	.230-02
1.00	.450-01	.461-00	-.470-02	-.439-02	.188-04	-.999-01	.254-02

TABLE 2.1.10 (CONTINUED)

Z=96

DC ICC EL,MI

K	A1(E1)	A2(E1)	A3(E1)	A4(E1)	A5(E1)	C1(M1)	C2(M1)
M1 - SUBSHELL							
.02	-.361+01	.596+01	.295-01	-.147-01	.551-04	-.891-01	.196-02
.05	-.146+01	.180+01	.819-02	-.763-02	.154-04	-.896-01	.201-02
.10	-.107+01	.100+01	.392-02	-.538-02	.763-05	-.904-01	.204-02
.15	-.850-00	.797-00	.259-02	-.455-02	.545-05	-.913-01	.208-02
.20	-.716-00	.797-00	.184-02	-.418-02	.444-05	-.921-01	.212-02
.30	-.542-00	.631-00	.825-03	-.379-02	.363-05	-.937-01	.220-02
.40	-.415-00	.593-00	.519-05	-.367-02	.369-05	-.953-01	.227-02
.50	-.312-00	.573-00	-.740-03	-.369-02	.429-05	-.969-01	.235-02
.70	-.197-00	.543-00	-.211-02	-.401-02	.692-05	-.999-01	.250-02
1.00	-.349-02	.508-00	-.395-02	-.488-02	.139-04	-.104+00	.274-02
M2 - SUBSHELL							
.02	.716-00	.294+01	-.161-01	-.231-02	.220-04	-.383-01	.369-03
.05	.404-00	.110+01	-.644-02	-.149-02	.944-05	-.400-01	.402-03
.10	.333-00	.754-00	-.490-02	-.145-02	.800-03	-.426-01	.455-03
.15	.317-00	.669-00	-.478-02	-.158-02	.860-05	-.449-01	.506-03
.20	.311-00	.634-00	-.495-02	-.175-02	.972-05	-.470-01	.535-03
.30	.306-00	.607-00	-.552-02	-.211-02	.127-04	-.509-01	.652-03
.40	.303-00	.602-00	-.626-02	-.230-02	.168-04	-.545-01	.746-03
.50	.304-00	.603-00	-.705-02	-.289-02	.210-04	-.578-01	.839-03
.70	.301-00	.607-00	-.868-02	-.368-02	.317-04	-.639-01	.102-02
1.00	.296-00	.617-00	-.112-01	-.486-02	.523-04	-.720-01	.130-02
M3 - SUBSHELL							
.02	.000	.000	.000	-.947-03	.330-05	.000	.000
.05	.000	.000	.000	-.760-03	.191-05	.000	.000
.10	.000	.000	.000	-.773-03	.168-05	.000	.000
.15	.000	.000	.000	-.820-03	.171-05	.000	.000
.20	.000	.000	.000	-.859-03	.178-05	.000	.000
.30	.000	.000	.000	-.919-03	.195-05	.000	.000
.40	.000	.000	.000	-.958-03	.214-05	.000	.000
.50	.000	.000	.000	-.980-03	.231-05	.000	.000
.70	.000	.000	.000	-.985-03	.261-05	.000	.000
1.00	.000	.000	.000	-.945-03	.299-05	.000	.000
M4 - SUBSHELL							
.02	.000	.000	.000	-.236-04	.727-08	.000	.000
.05	.000	.000	.000	-.449-04	.126-07	.000	.000
.10	.000	.000	.000	-.799-04	.252-07	.000	.000
.15	.000	.000	.000	-.115-03	.424-07	.000	.000
.20	.000	.000	.000	-.151-03	.644-07	.000	.000
.30	.000	.000	.000	-.224-03	.126-06	.000	.000
.40	.000	.000	.000	-.294-03	.216-06	.000	.000
.50	.000	.000	.000	-.363-03	.344-06	.000	.000
.70	.000	.000	.000	-.491-03	.757-06	.000	.000
1.00	.000	.000	.000	-.651-03	.198-05	.000	.000
TOTAL M - SHELL							
.02	-.148-00	.732-00	-.540-05	-.147-02	.700-05	-.825-01	.178-02
.05	-.194-00	.575-00	-.949-04	-.195-02	.557-05	-.831-01	.180-02
.10	-.217-00	.506-00	-.246-03	-.222-02	.501-05	-.841-01	.184-02
.15	-.221-00	.486-00	-.423-03	-.237-02	.496-05	-.850-01	.188-02
.20	-.216-00	.480-00	-.617-03	-.248-02	.508-05	-.859-01	.191-02
.30	-.191-00	.480-00	-.106-02	-.266-02	.563-05	-.877-01	.198-02
.40	-.155-00	.484-00	-.157-02	-.284-02	.658-05	-.895-01	.206-02
.50	-.116+00	.487-00	-.211-02	-.305-02	.787-05	-.912-01	.214-02
.70	-.408-01	.488-00	-.323-02	-.355-02	.116-04	-.947-01	.229-02
1.00	.511-01	.479-00	-.489-02	-.449-02	.198-04	-.996-01	.233-02

TABLE 2.2
=====

DYNAMIC CORRECTION COEFFICIENTS
FOR CONVERSION COEFFICIENTS OF
E2 AND α_2
TRANSITIONS

TABLE 2.2.01

Z=60

DC 100 E2, 2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(m2)	C2(m2)
K - SHELL							
.10	-.191-01	.334-03	-.269-04	.562-03	.476-06	-.151-01	.573-04
.15	-.190-01	.498-03	-.352-04	.562-03	.625-06	-.152-01	.581-04
.20	-.190-01	.618-03	-.439-04	.543-03	.766-06	-.153-01	.588-04
.30	-.180-01	.863-03	-.620-04	.451-03	.113-05	-.154-01	.601-04
.40	-.149-01	.111-02	-.806-04	.502-03	.148-05	-.155-01	.613-04
.50	-.107-01	.134-02	-.936-04	.114-03	.184-05	-.156-01	.625-04
.70	-.802-03	.174-02	-.131-03	-.320-03	.251-05	-.158-01	.648-04
1.00	.130-01	.219-02	-.171-03	-.974-03	.359-05	-.161-01	.683-04
L1 - SUBSHELL							
.02	.512-01	.102-02	-.711-04	-.166-02	.125-05	-.157-01	.613-04
.05	.216-00	.170-01	-.124-02	-.804-02	.219-04	-.157-01	.619-04
.10	-.201-01	.369-02	-.259-03	.312-03	.459-05	-.159-01	.628-04
.15	-.228-01	.234-02	-.165-03	.491-03	.295-05	-.160-01	.637-04
.20	-.211-01	.204-02	-.145-03	.446-03	.261-05	-.160-01	.645-04
.30	-.163-01	.199-02	-.142-03	.276-03	.261-05	-.162-01	.659-04
.40	-.110-01	.211-02	-.154-03	.547-04	.284-05	-.163-01	.672-04
.50	-.536-02	.227-02	-.167-03	-.180-03	.312-05	-.164-01	.685-04
.70	.602-02	.237-02	-.194-03	-.664-03	.372-05	-.166-01	.710-04
1.00	.211-01	.290-02	-.227-03	-.134-02	.452-05	-.170-01	.747-04
L2 - SUBSHELL							
.02	.168-01	.899-04	-.752-05	-.795-03	.159-06	-.146-02	.537-06
.05	.219-01	.125-03	-.106-04	-.950-03	.224-06	-.175-02	.779-06
.10	.259-01	.181-03	-.154-04	-.111-02	.329-05	-.217-02	.118-05
.15	.292-01	.237-03	-.203-04	-.125-02	.435-05	-.252-02	.161-05
.20	.322-01	.293-03	-.253-04	-.135-02	.545-06	-.285-02	.205-05
.30	.374-01	.409-03	-.357-04	-.166-02	.776-06	-.345-02	.300-05
.40	.421-01	.530-03	-.466-04	-.186-02	.103-05	-.399-02	.413-05
.50	.464-01	.654-03	-.581-04	-.208-02	.129-05	-.451-02	.513-05
.70	.540-01	.910-03	-.825-04	-.248-02	.167-05	-.546-02	.754-05
1.00	.539-01	.131-02	-.122-03	-.304-02	.236-05	-.670-02	.116-04
L2 - SUBSHELL							
.02	-.106-01	.526-04	.643-05	-.402-03	.940-07	-.157-01	.619-04
.05	-.123-01	.732-04	.632-05	-.561-03	.134-06	-.158-01	.631-04
.10	-.145-01	.112-03	.955-05	-.659-03	.197-06	-.159-01	.631-04
.15	-.161-01	.148-03	.123-04	-.734-03	.260-06	-.160-01	.669-04
.20	-.173-01	.185-03	.154-04	-.758-03	.322-06	-.161-01	.686-04
.30	-.196-01	.260-03	.214-04	-.869-03	.445-06	-.162-01	.719-04
.40	-.212-01	.333-03	.272-04	-.972-03	.562-06	-.162-01	.745-04
.50	-.223-01	.403-03	.326-04	-.103-02	.669-06	-.161-01	.774-04
.70	-.235-01	.529-03	.421-04	-.109-02	.851-06	-.159-01	.817-04
1.00	-.237-01	.673-03	.521-04	-.131-02	.104-05	-.150-01	.859-04
TOTAL L - SHELL							
.02	.150-02	.744-04	-.875-06	-.615-03	.120-06	-.153-01	.601-04
.05	.242-02	.126-03	-.302-05	-.729-03	.211-06	-.151-01	.593-04
.10	.287-02	.237-03	-.158-05	-.826-03	.372-06	-.149-01	.589-04
.15	.279-02	.363-03	-.161-04	-.257-03	.554-06	-.143-01	.591-04
.20	.255-02	.503-03	-.251-04	-.860-03	.750-06	-.148-01	.594-04
.30	.261-02	.791-03	-.452-04	-.853-03	.116-05	-.150-01	.605-04
.40	.379-02	.108-02	-.668-04	-.875-03	.159-05	-.151-01	.615-04
.50	.601-02	.136-02	-.883-04	-.958-03	.201-05	-.153-01	.631-04
.70	.125-01	.164-02	-.129-03	-.116-02	.281-05	-.156-01	.656-04
1.00	.237-01	.239-02	-.179-03	-.160-02	.355-05	-.161-01	.700-04

TABLE 2.2.02

Z=0

UC IUC F2, 1

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(2)	C2(2)
K = SHELL							
.15	-.255-01	.752-03	-.591-04	.722-03	.112-05	-.178-01	.790-04
.20	-.250-01	.656-03	-.726-04	.680-03	.149-05	-.170-01	.800-04
.30	-.202-01	.131-02	-.161-03	.533-03	.195-05	-.180-01	.819-04
.40	-.156-01	.165-02	-.128-03	.313-03	.252-05	-.182-01	.830-04
.50	-.957-02	.197-02	.155-03	.505-04	.507-05	-.183-01	.845-04
.60	.262-02	.250-02	-.201-03	-.27-03	.605-05	.184-01	.857-04
1.00	.702-01	.306-02	-.255-03	-.135-02	.570-05	-.190-01	.858-04
L1 = SU SHELL							
.05	.245-00	.151-01	-.113-02	-.022-02	.213-04	-.184-01	.851-04
.10	.069-02	.038-02	-.350-03	-.056-03	.119-04	-.186-01	.862-04
.15	-.170-01	.764-02	-.351-03	.182-03	.560-05	-.197-01	.875-04
.20	-.180-01	.376-02	-.286-03	.207-03	.579-05	-.188-01	.880-04
.30	-.152-01	.338-02	-.261-03	.851-04	.500-05	-.190-01	.907-04
.40	-.064-02	.543-02	-.267-03	-.191-03	.525-05	-.192-01	.925-04
.50	.385-03	.357-02	-.281-03	-.405-03	.560-05	-.193-01	.945-04
.70	.141-01	.337-02	-.512-03	-.111-02	.526-05	-.195-01	.981-04
1.00	.514-01	.420-02	-.550-03	-.192-02	.770-05	-.200-01	.105-05
L2 = SU SHELL							
.02	.255-01	.131-02	-.127-03	-.105-02	.279-05	-.194-01	.947-04
.05	.270-01	.180-02	-.160-03	-.122-02	.381-05	-.229-02	.132-05
.10	.216-01	.266-03	-.270-04	-.140-02	.544-06	-.272-02	.155-05
.15	.353-01	.341-03	-.311-04	-.161-02	.706-05	-.320-02	.150-05
.20	.367-01	.415-03	-.382-04	-.177-02	.573-05	-.359-02	.322-05
.30	.746-01	.572-03	-.528-04	-.207-02	.122-05	-.429-02	.000-05
.40	.499-01	.731-03	-.681-04	-.234-02	.159-05	-.495-02	.510-05
.50	.547-01	.897-03	-.877-04	-.259-02	.198-05	-.557-02	.770-05
.70	.613-01	.123-02	-.111-03	-.307-05	.202-05	-.607-02	.132-06
1.00	.773-01	.177-02	-.172-03	-.373-02	.422-05	-.821-02	.170-06
L3 = SU SHELL							
.02	-.155-01	.837-04	.749-05	-.647-05	.158-05	-.184-01	.057-06
.05	-.155-01	.116-02	.104-04	-.777-05	.232-06	-.186-01	.570-06
.10	-.100-01	.168-05	.149-04	-.857-05	.377-06	-.187-01	.890-04
.15	-.149-01	.219-03	.194-04	-.957-05	.453-06	-.189-01	.947-04
.20	-.215-01	.271-03	.256-04	-.104-02	.531-06	-.190-01	.950-06
.30	-.240-01	.377-03	.227-04	-.116-02	.722-07	-.192-01	.908-04
.40	-.253-01	.775-03	.412-04	-.125-02	.900-06	-.193-01	.107-05
.50	-.271-01	.570-03	.490-04	-.137-02	.137-05	-.195-01	.108-05
.70	-.285-01	.740-03	.626-04	-.159-02	.137-05	-.197-01	.115-05
1.00	-.257-01	.937-03	.770-04	-.147-02	.162-05	-.197-01	.172-06
TOTAL I = SHELL							
.05	.334-02	.189-02	-.444-05	-.970-05	.755-06	-.179-01	.819-04
.10	.455-02	.337-03	-.124-04	-.112-02	.605-06	-.178-01	.814-04
.15	.528-02	.510-03	-.232-04	-.119-02	.896-06	-.175-01	.815-04
.20	.565-02	.701-03	-.282-04	-.123-02	.120-05	-.175-01	.810-04
.30	.685-02	.110-02	-.059-03	-.127-02	.186-05	-.176-01	.853-04
.40	.897-02	.131-02	-.980-04	-.153-02	.254-05	-.178-01	.850-04
.50	.121-01	.150-02	-.150-03	-.142-02	.372-05	-.180-01	.868-04
.70	.201-01	.257-02	-.190-03	-.170-02	.447-05	-.187-01	.905-04
1.00	.552-01	.551-02	-.265-03	-.227-02	.607-05	-.190-01	.955-04

TABLE 2.2.03

Z=68

DC ICC E2, E2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(M2)	C2(M2)
K - SHELL							
.15	-.281-01	.175-02	-.100-03	.921-03	.203-05	-.207-01	.107-03
.20	-.268-01	.150-02	-.121-03	.839-03	.247-05	-.208-01	.109-03
.30	-.222-01	.201-02	-.164-03	.603-03	.339-05	-.210-01	.111-03
.40	-.157-01	.249-02	-.208-03	.283-03	.429-05	-.212-01	.114-03
.50	-.805-02	.292-02	-.244-03	-.832-04	.514-05	-.214-01	.116-03
.70	.796-02	.361-02	-.309-03	-.849-03	.665-05	-.218-01	.121-03
1.00	.289-01	.430-02	-.379-03	-.189-02	.847-05	-.223-01	.128-03
L1 - SUBSHELL							
.05	.215-00	.119-01	-.944-03	-.844-02	.189-04	-.216-01	.117-03
.10	.891-01	.179-01	-.143-02	-.441-02	.289-04	-.218-01	.119-03
.15	.638-02	.927-02	-.747-03	-.916-03	.152-04	-.219-01	.120-03
.20	-.515-02	.703-02	-.569-03	-.381-03	.116-04	-.221-01	.122-03
.30	-.395-02	.583-02	-.478-03	-.403-03	.987-05	-.223-01	.125-03
.40	.303-02	.563-02	-.465-03	-.707-03	.975-05	-.225-01	.127-03
.50	.111-01	.566-02	-.474-03	-.107-02	.100-04	-.227-01	.130-03
.70	.267-01	.586-02	-.502-03	-.181-02	.109-04	-.231-01	.135-03
1.00	.458-01	.611-02	-.540-03	-.276-02	.121-04	-.236-01	.143-03
L2 - SUBSHELL							
.05	.334-01	.284-03	-.271-04	-.159-02	.645-06	-.298-02	.224-05
.10	.385-01	.391-03	-.374-04	-.185-02	.896-06	-.356-02	.319-05
.15	.429-01	.495-03	-.476-04	-.206-02	.114-03	-.406-02	.416-05
.20	.466-01	.598-03	-.577-04	-.226-02	.140-03	-.452-02	.515-05
.30	.533-01	.804-03	-.785-04	-.261-02	.191-05	-.535-02	.722-05
.40	.593-01	.101-02	-.999-04	-.293-02	.246-05	-.611-02	.941-05
.50	.647-01	.123-02	-.122-03	-.324-02	.303-05	-.682-02	.117-04
.70	.743-01	.166-02	-.168-03	-.380-02	.426-05	-.813-02	.167-04
1.00	.866-01	.232-02	-.242-03	-.450-02	.630-05	-.993-02	.249-04
L3 - SUBSHELL							
.05	-.196-01	.180-03	.170-04	-.987-03	.404-06	-.216-01	.120-03
.10	-.225-01	.254-03	.239-04	-.113-02	.566-06	-.220-01	.124-03
.15	-.247-01	.326-03	.306-04	-.125-02	.721-06	-.223-01	.128-03
.20	-.266-01	.399-03	.372-04	-.134-02	.875-06	-.224-01	.131-03
.30	-.295-01	.542-03	.502-04	-.149-02	.117-05	-.228-01	.138-03
.40	-.316-01	.681-03	.625-04	-.160-02	.145-05	-.230-01	.145-03
.50	-.331-01	.811-03	.739-04	-.168-02	.170-05	-.231-01	.151-03
.70	-.247-01	.104-02	.936-04	-.177-02	.213-05	-.230-01	.161-03
1.00	-.350-01	.131-02	.114-03	-.179-02	.255-05	-.224-01	.173-03
TOTAL L - SHELL							
.05	.455-02	.280-03	-.665-05	-.128-02	.595-06	-.209-01	.113-03
.10	.675-02	.481-03	-.180-04	-.149-02	.981-06	-.206-01	.112-03
.15	.655-02	.716-03	-.334-04	-.162-02	.142-05	-.208-01	.112-03
.20	.964-02	.977-03	-.520-04	-.171-02	.191-05	-.206-01	.113-03
.30	.124-01	.153-02	-.953-04	-.182-02	.294-05	-.207-01	.115-03
.40	.155-01	.210-02	-.143-03	-.194-02	.402-05	-.209-01	.117-03
.50	.202-01	.264-02	-.191-03	-.208-02	.508-05	-.211-01	.119-03
.70	.303-01	.358-02	-.279-03	-.245-02	.705-05	-.216-01	.124-03
1.00	.456-01	.459-02	-.385-03	-.308-02	.949-05	-.223-01	.133-03

TABLE 2.2.04

Z=72

DC 10.0 22.12

K	A1(=2)	A2(=2)	A3(=2)	A4(=2)	A5(=2)	C1(=2)	C2(=2)
K - SHELL							
.10	-.334-01	.202-02	-.174-05	.115-02	.589-05	-.241-01	.145-03
.20	-.207-01	.223-02	-.204-03	.101-02	.441-05	-.243-01	.147-03
.30	-.236-01	.214-02	-.270-05	.631-05	.589-05	-.245-01	.151-03
.40	-.173-01	.370-02	-.352-03	.171-05	.732-05	-.248-01	.153-03
.50	-.110-01	.637-02	-.567-03	.355-03	.583-05	-.250-01	.156-03
.70	.161-01	.526-02	-.476-03	.131-02	.109-04	-.255-01	.155-03
1.00	.409-01	.509-02	-.568-03	-.263-02	.137-04	-.261-01	.175-03
L1 - SUBSHELL							
.05	.192-00	.105-01	-.806-04	-.814-02	.190-04	-.254-01	.161-03
.10	.232-00	.305-01	-.259-02	-.107-01	.534-04	-.255-01	.163-03
.15	.661-01	.131-01	-.144-02	-.373-02	.222-04	-.257-01	.165-03
.20	.280-01	.131-01	-.113-02	-.201-02	.273-04	-.259-01	.167-03
.30	.168-01	.101-01	-.477-03	-.148-02	.152-04	-.262-01	.171-03
.40	.217-01	.929-02	-.818-03	-.170-02	.150-04	-.264-01	.175-03
.50	.297-01	.903-02	-.801-03	-.208-02	.170-04	-.267-01	.170-03
.70	.461-01	.845-02	-.809-03	-.291-02	.185-04	-.271-01	.186-03
1.00	.660-01	.894-02	-.436-03	-.357-02	.199-04	-.278-01	.197-03
L2 - SUBSHELL							
.05	.412-01	.421-03	-.433-04	-.207-02	.109-05	-.327-02	.273-05
.10	.471-01	.579-03	-.533-04	-.233-02	.143-05	-.456-02	.324-05
.15	.520-01	.721-03	-.731-04	-.267-02	.185-05	-.515-02	.569-05
.20	.563-01	.860-03	-.876-04	-.267-02	.223-05	-.569-02	.817-05
.30	.635-01	.114-02	-.117-03	-.334-02	.301-05	-.667-02	.114-04
.40	.707-01	.142-02	-.147-03	-.363-02	.382-05	-.750-02	.144-04
.50	.767-01	.170-02	-.178-03	-.407-02	.466-05	-.839-02	.177-04
.70	.876-01	.227-02	-.242-03	-.471-02	.645-05	-.993-02	.240-04
1.00	.101+00	.313-02	-.342-03	-.563-02	.939-05	-.120-01	.205-04
L3 - SUBSHELL							
.05	-.248-01	.281-03	.230-04	-.131-02	.701-06	-.256-01	.165-05
.10	-.281-01	.347-03	.384-04	-.149-02	.958-06	-.259-01	.171-05
.15	-.308-01	.420-03	.485-04	-.163-02	.120-05	-.262-01	.170-05
.20	-.330-01	.592-03	.583-04	-.175-02	.144-05	-.265-01	.181-05
.30	-.367-01	.792-03	.775-04	-.193-02	.191-05	-.260-01	.192-05
.40	-.389-01	.984-03	.955-04	-.207-02	.234-05	-.272-01	.201-05
.50	-.400-01	.116-02	.112-03	-.216-02	.272-05	-.275-01	.210-05
.70	-.426-01	.148-02	.141-03	-.227-02	.337-05	-.276-01	.226-05
1.00	-.426-01	.184-02	.171-03	-.220-02	.401-05	-.272-01	.245-05
TOTAL L - SHELL							
.05	.602-02	.418-03	-.599-05	-.165-02	.999-06	-.246-01	.155-05
.10	.943-02	.693-03	-.263-04	-.199-02	.159-05	-.243-01	.155-05
.15	.121-01	.101-02	-.482-04	-.218-02	.227-05	-.242-01	.155-05
.20	.140-01	.137-02	-.749-04	-.252-02	.301-05	-.242-01	.156-05
.30	.193-01	.213-02	-.138-03	-.254-02	.462-05	-.243-01	.158-05
.40	.247-01	.291-02	-.207-03	-.274-02	.629-05	-.245-01	.161-05
.50	.300-01	.366-02	-.277-03	-.296-02	.795-05	-.248-01	.164-05
.70	.435-01	.497-02	-.408-03	-.345-02	.110-04	-.253-01	.171-05
1.00	.616-01	.635-02	-.503-03	-.422-02	.147-04	-.262-01	.182-05

TABLE 2.2.04 (CONTINUED)

Z=72

GC ILC 42,11

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
M1 - SUBSHELL							
.02	.154-00	.678-02	-.571-03	-.621-02	.127-04	-.255-01	.165-01
.05	.267-00	.179-01	-.151-02	-.115-01	.521-04	-.256-01	.164-02
.10	.250-00	.202-01	-.257-02	-.106-01	.551-04	-.250-01	.160-02
.15	.278-01	.201-01	-.171-02	-.264-02	.355-04	-.259-01	.163-02
.20	.247-01	.150-01	-.129-02	-.271-02	.274-04	-.261-01	.170-02
.30	.278-01	.114-01	-.593-03	-.207-02	.217-04	-.264-01	.175-02
.40	.501-01	.103-01	-.907-03	-.211-02	.201-04	-.267-01	.170-03
.50	.567-01	.985-02	-.877-03	-.274-02	.156-04	-.269-01	.187-02
.70	.517-01	.950-02	-.809-03	-.315-02	.169-04	-.274-01	.190-02
1.00	.704-01	.945-02	-.882-03	-.421-02	.209-04	-.261-01	.201-02
M2 - SUBSHELL							
.02	.411-01	.422-03	-.425-04	-.206-02	.106-03	-.415-02	.453-05
.05	.753-01	.519-03	-.521-04	-.225-02	.131-05	-.446-02	.501-05
.10	.508-01	.607-03	-.677-04	-.257-02	.170-03	-.502-02	.656-05
.15	.554-01	.910-03	-.322-04	-.281-02	.209-05	-.556-02	.777-05
.20	.595-01	.952-03	-.970-04	-.304-02	.247-05	-.600-02	.928-05
.30	.668-01	.125-02	-.127-03	-.415-02	.327-05	-.700-02	.123-04
.40	.754-01	.152-02	-.157-03	-.283-02	.409-05	-.780-02	.156-04
.50	.793-01	.180-02	-.182-03	-.418-02	.495-05	-.858-02	.190-04
.70	.899-01	.238-02	-.253-03	-.464-02	.676-05	-.102-01	.262-04
1.00	.104-00	.325-02	-.356-03	-.575-02	.975-05	-.153-01	.379-04
M3 - SUBSHELL							
.02	-.242-01	.259-03	.259-04	-.129-02	.650-05	-.256-01	.164-02
.05	-.269-01	.328-03	.327-04	-.142-02	.819-06	-.258-01	.168-03
.10	-.501-01	.436-03	.433-04	-.159-02	.100-05	-.261-01	.173-03
.15	-.325-01	.507-03	.536-04	-.175-02	.133-05	-.264-01	.179-03
.20	-.347-01	.676-03	.657-04	-.154-02	.155-05	-.267-01	.184-03
.30	-.380-01	.550-03	.632-04	-.202-02	.205-05	-.272-01	.195-03
.40	-.404-01	.105-02	.102-03	-.215-02	.248-05	-.275-01	.204-03
.50	-.421-01	.123-02	.111-03	-.224-02	.280-05	-.277-01	.213-03
.70	-.439-01	.155-02	.147-03	-.237-02	.555-05	-.279-01	.230-03
1.00	-.440-01	.192-02	.178-03	-.238-02	.415-05	-.275-01	.249-03

TABLE 2.2.6 (Continued)

L=72

NO ICC +2, 1

K	A1(E2)	A2(2)	A3(E2)	A4(E2)	A5(E2)	A6(E2)	A7(E2)	A8(E2)
.02	-.165-01	.140-02	.116-03	-.877-03	.277-03	-.25-02	.522-0	.522-0
.03	-.152-01	.130-02	.117-03	-.877-03	.277-03	-.25-02	.700-03	.700-03
.10	-.103-01	.147-02	.136-03	-.552-03	.377-03	-.21-02	.570-03	.570-03
.15	-.217-01	.211-02	.172-03	-.972-03	.367-03	-.13-02	.137-03	.137-03
.20	-.211-01	.231-02	.191-03	-.980-03	.257-03	-.102-02	.150-0	.150-0
.25	-.252-01	.255-02	.217-03	-.116-02	.223-03	-.802-02	.202-03	.202-03
.30	-.266-01	.257-02	.236-03	-.126-02	.467-03	-.893-02	.262-03	.262-03
.35	-.266-01	.317-02	.252-03	-.177-02	.517-03	-.972-02	.322-03	.322-03
.40	-.265-01	.340-02	.276-03	-.176-02	.277-03	-.111-01	.246-03	.246-03
.45	-.245-01	.367-02	.297-03	-.151-02	.713-03	-.326-01	.673-03	.673-03

1' - SUBSHEET

15 - 54 SET 11

.02	-.000	.000	.000	-.602-03	.177-07	.000	.000	.000
.03	-.000	.000	.000	-.161-03	.136-07	.000	.000	.000
.10	.000	.000	.000	.205-07	.207-07	.000	.000	.000
.15	.000	.000	.000	.337-04	.222-07	.000	.000	.000
.20	.000	.000	.000	.382-04	.256-07	.000	.000	.000
.25	.000	.000	.000	.550-07	.360-07	.000	.000	.000
.30	.000	.000	.000	.744-04	.583-07	.000	.000	.000
.35	.000	.000	.000	.736-07	.117-06	.000	.000	.000
.40	.000	.000	.000	.386-07	.15-06	.000	.000	.000
.45	.000	.000	.000	.273-04	.100-03	.000	.000	.000

TOTAL 15 - 54 SET 11

.02	.172-02	.273-02	-.211-03	-.102-02	.296-00	-.277-01	.150-03	.150-03
.03	.027-02	.520-01	-.125-04	-.187-02	.127-03	-.276-01	.157-03	.157-03
.10	.969-02	.802-03	-.237-07	-.211-02	.367-03	.244-01	.177-03	.177-03
.15	.126-01	.112-02	-.517-07	-.236-02	.232-03	-.277-01	.177-03	.177-03
.20	.132-01	.145-02	-.762-04	-.276-02	.320-07	-.277-01	.177-03	.177-03
.25	.206-01	.222-02	-.140-03	-.276-02	.437-03	-.277-01	.177-03	.177-03
.30	.263-01	.301-02	-.202-03	-.292-02	.526-03	-.277-01	.177-03	.177-03
.35	.323-01	.376-02	-.275-03	-.315-02	.620-03	-.277-01	.177-03	.177-03
.40	.453-01	.507-02	-.411-03	-.363-02	.713-03	-.277-01	.177-03	.177-03
.45	.650-01	.649-02	-.509-03	-.479-02	.713-03	-.277-01	.177-03	.177-03

TABLE 2.2.05

Z=76

OC ICC #2, #2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
K - SHELL							
.15	-.392-01	.332-02	-.299-03	.142-02	.677-05	-.280-01	.196-03
.20	-.344-01	.383-02	-.347-03	.116-02	.790-05	-.282-01	.198-03
.30	-.234-01	.487-02	-.446-03	.385-03	.103-04	-.286-01	.204-03
.40	-.105-01	.578-02	-.535-03	.812-04	.125-04	-.289-01	.209-03
.50	.299-02	.655-02	-.612-03	.773-03	.144-04	-.291-01	.214-03
.70	.281-01	.767-02	-.732-03	.208-02	.176-04	-.297-01	.223-03
1.00	.570-01	.861-02	-.847-03	.365-02	.210-04	-.305-01	.238-03
L1 - SUBSHELL							
.05	.193-00	.106-01	-.946-03	-.840-02	.212-04	-.297-01	.220-03
.10	.346-00	.379-01	-.341-02	-.161-01	.770-04	-.299-01	.223-03
.15	.178-00	.317-01	-.286-02	-.909-02	.651-04	-.301-01	.226-03
.20	.958-01	.234-01	-.213-02	-.535-02	.486-04	-.303-01	.229-03
.30	.571-01	.172-01	-.158-02	-.359-02	.365-04	-.306-01	.235-03
.40	.548-01	.152-01	-.141-02	-.349-02	.329-04	-.309-01	.240-03
.50	.601-01	.143-01	-.134-02	-.378-02	.316-04	-.313-01	.245-03
.70	.748-01	.135-01	-.129-02	-.457-02	.312-04	-.318-01	.255-03
1.00	.935-01	.130-01	-.128-02	-.566-02	.320-04	-.326-01	.270-03
L2 - SUBSHELL							
.05	.507-01	.651-03	-.688-04	-.268-02	.182-05	-.502-02	.634-05
.10	.575-01	.855-03	-.908-04	-.305-02	.241-05	-.582-02	.853-05
.15	.631-01	.103-02	-.112-03	-.337-02	.298-05	-.652-02	.107-04
.20	.680-01	.124-02	-.133-03	-.365-02	.353-05	-.715-02	.129-04
.30	.766-01	.161-02	-.174-03	-.415-02	.471-05	-.830-02	.174-04
.40	.842-01	.198-02	-.216-03	-.461-02	.589-05	-.934-02	.220-04
.50	.910-01	.235-02	-.259-03	-.504-02	.712-05	-.103-01	.268-04
.70	.103+00	.309-02	-.347-03	-.583-02	.971-05	-.121-01	.369-04
1.00	.119+00	.421-02	-.484-03	-.691-02	.139-04	-.145-01	.532-04
L3 - SUBSHELL							
.05	-.313-01	.437-03	.459-04	-.173-02	.121-05	-.300-01	.226-03
.10	-.352-01	.589-03	.615-04	-.195-02	.161-05	-.304-01	.234-03
.15	-.384-01	.736-03	.766-04	-.213-02	.200-05	-.308-01	.242-03
.20	-.410-01	.880-03	.912-04	-.227-02	.238-05	-.311-01	.249-03
.30	-.450-01	.116-02	.119-03	-.250-02	.309-05	-.317-01	.264-03
.40	-.479-01	.143-02	.146-03	-.266-02	.375-05	-.322-01	.277-03
.50	-.500-01	.167-02	.170-03	-.278-02	.434-05	-.325-01	.290-03
.70	-.523-01	.211-02	.211-03	-.291-02	.532-05	-.329-01	.314-03
1.00	-.525-01	.261-02	.254-03	-.293-02	.629-05	-.328-01	.342-03
TOTAL L - SHELL							
.05	.791-02	.627-03	-.151-04	-.222-02	.167-05	-.289-01	.215-03
.10	.127-01	.999-03	-.385-04	-.259-02	.257-05	-.286-01	.213-03
.15	.168-01	.143-02	-.699-04	-.288-02	.339-05	-.284-01	.213-03
.20	.206-01	.190-02	-.107-03	-.310-02	.471-05	-.284-01	.214-03
.30	.280-01	.294-02	-.197-03	-.346-02	.715-05	-.285-01	.216-03
.40	.357-01	.401-02	-.297-03	-.378-02	.971-05	-.287-01	.220-03
.50	.438-01	.503-02	-.398-03	-.410-02	.122-04	-.290-01	.224-03
.70	.601-01	.683-02	-.589-03	-.475-02	.169-04	-.297-01	.234-03
1.00	.816-01	.874-02	-.813-03	-.569-02	.226-04	-.307-01	.249-03

TABLE 2.2.05 (CONTINUED)

Z=70

DC 100 -2,12

X	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(1,2)	C2(1,2)
11 - SUBSHELL							
.02	.179-00	.912-02	-.818-02	-.776-02	.413-04	-.299-01	.275-03
.05	.272-00	.115-01	-.308-02	-.320-01	.372-04	-.300-01	.225-01
.10	.357-00	.384-01	-.345-02	-.138-01	.781-04	-.302-01	.228-03
.15	.200-00	.355-01	-.201-02	-.101-01	.455-04	-.201-01	.221-03
.20	.122-00	.260-01	-.256-02	-.605-02	.540-04	-.260-01	.254-02
.30	.757-01	.194-01	-.178-02	-.745-02	.711-04	-.200-01	.239-03
.40	.683-01	.169-01	-.156-02	-.415-02	.206-04	-.313-01	.255-01
.50	.710-01	.157-01	-.177-02	-.436-02	.547-04	-.216-01	.250-03
.70	.824-01	.144-01	-.133-02	-.502-02	.336-04	-.322-01	.260-03
1.00	.999-01	.130-01	-.155-02	-.600-02	.339-04	-.330-01	.270-03

112 - SUBSHELL

.02	.513-01	.659-03	-.695-04	-.271-02	.183-05	-.549-02	.758-03
.05	.561-01	.791-03	-.837-04	-.291-02	.221-05	-.552-02	.853-03
.10	.623-01	.995-03	-.105-03	-.331-02	.281-05	-.606-02	.105-04
.15	.675-01	.119-02	-.127-03	-.500-02	.334-05	-.708-02	.126-04
.20	.721-01	.138-02	-.149-03	-.587-02	.397-05	-.760-02	.148-04
.30	.804-01	.176-02	-.190-03	-.431-02	.514-05	-.875-02	.153-04
.40	.877-01	.213-02	-.235-03	-.481-02	.550-05	-.977-02	.270-04
.50	.947-01	.251-02	-.270-03	-.522-02	.761-05	-.107-01	.286-04
.70	.106-00	.326-02	-.365-03	-.600-02	.102-06	-.127-01	.350-04
1.00	.122-00	.439-02	-.505-03	-.708-02	.145-06	-.143-01	.356-04

113 - SUBSHELL

.02	-.310-01	.417-03	.435-04	-.172-02	.115-05	-.300-01	.225-03
.05	-.370-01	.513-03	.558-04	-.185-02	.142-05	-.303-01	.230-03
.10	-.370-01	.665-03	.693-04	-.209-02	.163-05	-.307-01	.258-03
.15	-.407-01	.812-03	.851-04	-.226-02	.223-05	-.311-01	.275-03
.20	-.422-01	.904-03	.100-03	-.241-02	.201-05	-.314-01	.257-03
.30	-.471-01	.125-02	.129-03	-.262-02	.233-05	-.320-01	.268-03
.40	-.499-01	.152-02	.150-03	-.277-02	.250-05	-.325-01	.282-03
.50	-.519-01	.176-02	.180-03	-.285-02	.430-05	-.329-01	.295-03
.70	-.540-01	.222-02	.224-03	-.301-02	.560-05	-.333-01	.319-03
1.00	-.541-01	.272-02	.266-03	-.303-02	.558-05	-.337-01	.349-03

TABLE 2.2.5 (CONTINUED)

Z=75

DC ILL 22,02

%	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
P4 - SUBSHELL							
.02	-.284-01	.227-02	.198-03	-.127-02	.741-05	-.604-02	.949-05
.05	-.284-01	.245-02	.221-03	-.177-02	.689-05	-.664-02	.919-05
.10	-.295-01	.265-02	.252-03	-.182-02	.656-05	-.750-02	.155-04
.15	-.311-01	.317-02	.271-03	-.140-02	.615-05	-.827-02	.199-05
.20	-.327-01	.373-02	.260-03	-.177-02	.656-05	-.898-02	.239-04
.30	-.356-01	.387-02	.355-03	-.160-02	.728-05	-.107-01	.527-05
.40	-.380-01	.421-02	.382-03	-.171-02	.775-05	-.113-01	.606-05
.50	-.399-01	.450-02	.383-03	-.186-02	.818-05	-.122-01	.695-05
.70	-.425-01	.493-02	.413-03	-.192-02	.880-05	-.139-01	.873-05
1.00	-.445-01	.540-02	.440-03	-.207-02	.986-05	-.159-01	.957-05

P5 - SUBSHELL

.02	.000	.000	.000	-.721-05	.214-07	.000	.000
.05	.000	.000	.000	-.197-04	.250-07	.000	.000
.10	.000	.000	.000	-.325-04	.205-07	.000	.000
.15	.000	.000	.000	-.404-04	.257-07	.000	.000
.20	.000	.000	.000	-.464-04	.407-07	.000	.000
.30	.000	.000	.000	-.525-04	.520-07	.000	.000
.40	.000	.000	.000	-.573-04	.709-07	.000	.000
.50	.000	.000	.000	-.535-04	.109-06	.000	.000
.70	.000	.000	.000	-.481-04	.319-06	.000	.000
1.00	.000	.000	.000	-.453-04	.175-05	.000	.000

TOTAL P - SHELL

.02	.085-02	.585-02	-.829-05	-.211-02	.156-05	-.292-01	.218-03
.05	.032-02	.759-03	-.193-04	-.242-02	.207-05	-.290-01	.217-03
.10	.131-01	.117-02	-.739-04	-.277-02	.290-05	-.287-01	.216-03
.15	.173-01	.161-02	-.756-04	-.305-02	.405-05	-.286-01	.218-03
.20	.214-01	.202-02	-.117-03	-.725-02	.515-05	-.286-01	.217-03
.30	.293-01	.310-02	-.201-03	-.385-02	.758-05	-.237-01	.216-03
.40	.374-01	.415-02	-.300-03	-.460-02	.101-04	-.289-01	.224-03
.50	.458-01	.517-02	-.401-03	-.733-02	.126-04	-.292-01	.227-03
.70	.627-01	.677-02	-.592-03	-.798-02	.174-04	-.298-01	.237-03
1.00	.840-01	.890-02	-.821-03	-.592-02	.231-04	-.302-01	.252-03

TABLE 2.2.06

Z=80

DC ICC E2, E2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
K - SHELL							
.20	-.367-01	.617-02	-.589-03	.123-02	.141-04	-.327-01	.267-03
.30	-.203-01	.762-02	-.735-03	.372-03	.178-04	-.331-01	.274-03
.40	-.261-02	.583-02	-.861-03	-.570-03	.211-04	-.335-01	.281-03
.50	.148-01	.981-02	-.965-03	-.150-02	.239-04	-.338-01	.287-03
.70	.454-01	.111-01	-.112-02	-.316-02	.283-04	-.345-01	.300-03
1.00	.782-01	.121-01	-.125-02	-.504-02	.327-04	-.355-01	.320-03
L1 - SUBSHELL							
.05	.198-00	.114-01	-.107-02	-.905-02	.254-04	-.346-01	.299-03
.10	.387-00	.392-01	-.372-02	-.186-01	.685-04	-.348-01	.303-03
.15	.313-00	.461-01	-.439-02	-.140-01	.105-03	-.350-01	.307-03
.20	.205-00	.381-01	-.365-02	-.110-01	.879-04	-.353-01	.311-03
.30	.125-00	.282-01	-.273-02	-.722-02	.664-04	-.357-01	.318-03
.40	.108+00	.242-01	-.236-02	-.643-02	.501-04	-.360-01	.325-03
.50	.107+00	.222-01	-.219-02	-.642-02	.543-04	-.364-01	.332-03
.70	.115+00	.202-01	-.203-02	-.698-02	.515-04	-.371-01	.346-03
1.00	.130-00	.188-01	-.194-02	-.796-02	.508-04	-.381-01	.367-03
L2 - SUBSHELL							
.05	.622-01	.975-03	-.108-03	-.345-02	.300-05	-.645-02	.105-04
.10	.699-01	.125-02	-.140-03	-.369-02	.389-05	-.739-02	.137-04
.15	.762-01	.152-02	-.170-03	-.427-02	.475-05	-.821-02	.169-04
.20	.817-01	.177-02	-.199-03	-.460-02	.559-05	-.895-02	.201-04
.30	.914-01	.227-02	-.257-03	-.520-02	.728-05	-.103-01	.266-04
.40	.100+00	.275-02	-.315-03	-.574-02	.900-05	-.115-01	.332-04
.50	.108+00	.324-02	-.374-03	-.624-02	.108-04	-.126-01	.400-04
.70	.121+00	.420-02	-.493-03	-.717-02	.145-04	-.147-01	.542-04
1.00	.139-00	.565-02	-.679-03	-.844-02	.204-04	-.175-01	.768-04
L3 - SUBSHELL							
.05	-.395-01	.679-03	.747-04	-.228-02	.206-05	-.350-01	.309-03
.10	-.442-01	.895-03	.981-04	-.255-02	.270-05	-.355-01	.319-03
.15	-.478-01	.110-02	.120-03	-.276-02	.330-05	-.360-01	.330-03
.20	-.508-01	.130-02	.142-03	-.294-02	.368-05	-.364-01	.340-03
.30	-.556-01	.169-02	.183-03	-.322-02	.497-05	-.372-01	.360-03
.40	-.591-01	.206-02	.221-03	-.342-02	.598-05	-.378-01	.379-03
.50	-.615-01	.241-02	.256-03	-.356-02	.687-05	-.384-01	.390-03
.70	-.642-01	.301-02	.316-03	-.372-02	.836-05	-.390-01	.431-03
1.00	-.644-01	.368-02	.378-03	-.374-02	.981-05	-.392-01	.473-03
TOTAL L - SHELL							
.05	.102-01	.935-03	-.228-04	-.290-02	.275-05	-.338-01	.293-03
.10	.167-01	.144-02	-.563-04	-.337-02	.410-05	-.335-01	.291-03
.15	.225-01	.201-02	-.101-03	-.375-02	.562-05	-.333-01	.290-03
.20	.279-01	.264-02	-.153-03	-.407-02	.728-05	-.332-01	.291-03
.30	.385-01	.402-02	-.279-03	-.460-02	.109-04	-.333-01	.294-03
.40	.491-01	.543-02	-.419-03	-.507-02	.147-04	-.335-01	.298-03
.50	.599-01	.683-02	-.563-03	-.552-02	.185-04	-.338-01	.304-03
.70	.804-01	.927-02	-.835-03	-.638-02	.255-04	-.346-01	.316-03
1.00	.106+00	.119-01	-.116-02	-.755-02	.340-04	-.358-01	.337-03

TABLE 2.2.05 (CONTINUED)

 $Z=60$

OL ICC E2,02

R	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
M1 - SUBSHELL							
.02	.212-00	.125-01	-.115-02	-.972-02	.275-04	-.349-01	.305-05
.05	.225-00	.210-01	-.193-02	-.125-01	.764-04	-.351-01	.307-05
.10	.295-00	.425-01	-.403-02	-.191-01	.660-04	-.353-01	.311-05
.15	.325-00	.655-01	-.444-02	-.165-01	.106-03	-.355-01	.315-05
.20	.234-00	.406-01	-.304-02	-.124-01	.937-04	-.357-01	.319-05
.30	.152-00	.312-01	-.302-02	-.259-02	.735-04	-.361-01	.326-05
.40	.129-00	.267-01	-.261-02	-.752-02	.642-04	-.365-01	.334-05
.50	.124-00	.273-01	-.240-02	-.752-02	.596-04	-.369-01	.341-05
.70	.126-00	.218-01	-.219-02	-.766-02	.557-04	-.375-01	.355-05
1.00	.139-00	.200-01	-.207-02	-.847-02	.542-04	-.386-01	.376-05
M2 - SUBSHELL							
.02	.639-01	.102-02	-.113-03	-.353-02	.312-05	-.720-02	.180-04
.05	.691-01	.120-02	-.133-03	-.305-02	.365-05	-.755-02	.164-04
.10	.761-01	.148-02	-.165-03	-.424-02	.459-05	-.827-02	.172-04
.15	.619-01	.174-02	-.195-03	-.459-02	.345-05	-.898-02	.203-04
.20	.872-01	.200-02	-.224-03	-.491-02	.631-05	-.965-02	.234-04
.30	.964-01	.250-02	-.203-03	-.548-02	.804-05	-.109-01	.299-04
.40	.105-00	.299-02	-.343-03	-.601-02	.980-05	-.121-01	.356-04
.50	.112-00	.340-02	-.402-03	-.650-02	.116-04	-.131-01	.435-04
.70	.125-00	.447-02	-.524-03	-.742-02	.154-04	-.152-01	.579-04
1.00	.142-00	.592-02	-.713-03	-.867-02	.215-04	-.175-01	.508-04
M3 - SUBSHELL							
.02	-.396-01	.657-03	.725-04	-.229-02	.201-05	-.350-01	.502-05
.05	-.450-01	.794-03	.879-04	-.249-02	.243-05	-.354-01	.314-05
.10	-.474-01	.702-02	.112-03	-.274-02	.308-05	-.359-01	.325-05
.15	-.508-01	.123-02	.134-03	-.294-02	.369-05	-.364-01	.336-05
.20	-.527-01	.144-02	.156-03	-.311-02	.428-05	-.368-01	.346-05
.30	-.523-01	.183-02	.128-03	-.358-02	.535-05	-.376-01	.367-05
.40	-.616-01	.221-02	.257-03	-.357-02	.641-05	-.382-01	.386-05
.50	-.639-01	.256-02	.273-03	-.371-02	.722-05	-.388-01	.405-05
.70	-.665-01	.317-02	.133-03	-.386-02	.862-05	-.395-01	.459-05
1.00	-.666-01	.385-02	.396-03	-.387-02	.103-04	-.397-01	.482-05

TABLE 2.2.06 (CONTINUED)

Z=50

LC ICC E2.12

X	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
44 - SUBSHELL							
.02	-.407-01	.352-02	.530-03	-.192-02	.772-05	-.789-02	.151-01
.05	-.415-01	.357-02	.351-03	-.193-02	.876-05	-.660-02	.152-01
.10	-.422-01	.434-02	.704-03	-.195-02	.970-05	-.565-02	.258-01
.15	-.439-01	.474-02	.439-03	-.207-02	.102-04	-.105-01	.317-01
.20	-.456-01	.502-02	.439-03	-.215-02	.100-04	-.114-01	.377-01
.30	-.487-01	.563-02	.515-03	-.233-02	.118-04	-.128-01	.456-01
.40	-.511-01	.600-02	.550-03	-.241-02	.125-04	-.141-01	.672-01
.50	-.530-01	.642-02	.577-03	-.250-02	.130-04	-.155-01	.749-01
.70	-.554-01	.696-02	.615-03	-.262-02	.137-04	-.173-01	.101-02
1.00	-.571-01	.755-02	.648-03	-.271-02	.146-04	-.183-01	.141-03

45 - SUBSHELL

.02	.000	.000	.000	-.500-05	.300-07	.000	.000
.05	.000	.000	.000	-.225-04	.414-07	.000	.000
.10	.000	.000	.000	-.390-04	.497-07	.000	.000
.15	.000	.000	.000	-.453-04	.570-07	.000	.000
.20	.000	.000	.000	-.562-04	.641-07	.000	.000
.30	.000	.000	.000	-.637-04	.781-07	.000	.000
.40	.000	.000	.000	-.660-04	.562-07	.000	.000
.50	.000	.000	.000	-.654-04	.127-05	.000	.000
.70	.000	.000	.000	-.594-04	.278-06	.000	.000
1.00	.000	.000	.000	-.430-04	.102-05	.000	.000

TOTAL 44 - SHELL

.02	.444-02	.514-03	-.135-04	-.205-02	.289-05	-.202-01	.298-03
.05	.109-01	.115-02	-.300-04	-.316-02	.345-05	-.035-01	.291-03
.10	.175-01	.171-02	-.655-04	-.307-02	.465-05	-.037-01	.280-03
.15	.232-01	.275-02	-.110-03	-.359-02	.035-05	-.035-01	.290-03
.20	.285-01	.292-02	-.103-03	-.431-02	.305-05	-.033-01	.296-03
.30	.399-01	.428-02	-.257-03	-.486-02	.115-04	-.030-01	.299-03
.40	.510-01	.565-02	-.420-03	-.535-02	.154-04	-.030-01	.304-03
.50	.620-01	.705-02	-.508-03	-.581-02	.192-04	-.041-01	.309-03
.70	.828-01	.947-02	-.870-03	-.668-02	.262-04	-.048-01	.322-03
1.00	.109+00	.121-01	-.117-02	-.783-02	.349-04	-.060-01	.342-03

TABLE 2.2.07

Z=8%

DC ICC F.F. 2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
K - SHELL							
.20	-.110-01	.100-01	-.101-02	.117-02	.254-04	-.377-01	.346-03
.30	-.121-01	.119-01	-.120-02	-.145-03	.307-04	-.362-01	.345-03
.40	.116-01	.135-01	-.138-02	-.145-02	.355-04	-.326-01	.374-03
.50	.536-01	.144-01	-.131-02	-.237-02	.393-04	-.391-01	.382-03
.70	.699-01	.161-01	-.159-02	-.472-03	.449-04	-.390-01	.450-03
1.00	.106-00	.176-01	-.104-02	-.689-02	.502-04	-.410-01	.426-03
L1 - SUBSHELL							
.05	.209-00	.130-01	-.126-02	-.101-01	.320-04	-.404-01	.406-03
.10	.397-00	.394-01	-.392-02	-.198-01	.952-04	-.405-01	.411-03
.15	.420-00	.566-01	-.557-02	-.218-01	.145-03	-.408-01	.416-03
.20	.335-00	.578-01	-.551-02	-.100-01	.139-02	-.410-01	.421-03
.30	.224-00	.736-01	-.443-02	-.127-01	.113-03	-.415-01	.420-03
.40	.186-00	.371-01	-.361-02	-.109-01	.915-04	-.419-01	.440-03
.50	.173-00	.335-01	-.342-02	-.103-01	.907-04	-.424-01	.449-03
.70	.171-00	.297-01	-.313-02	-.104-01	.831-04	-.432-01	.458-03
1.00	.178-00	.268-01	-.291-02	-.110-01	.794-04	-.444-01	.480-03
L2 - SUBSHELL							
.05	.762-01	.146-02	-.169-03	-.442-02	.492-03	-.623-02	.172-04
.10	.849-01	.184-02	-.217-03	-.495-02	.625-03	-.637-02	.221-04
.15	.920-01	.215-02	-.257-03	-.539-02	.732-03	-.603-01	.248-04
.20	.963-01	.253-02	-.296-03	-.577-02	.876-03	-.612-01	.317-04
.30	.109+00	.319-02	-.279-03	-.549-02	.112-04	-.617-01	.407-04
.40	.115+00	.384-02	-.459-03	-.715-02	.137-04	-.641-01	.501-04
.50	.127-00	.447-02	-.539-03	-.772-02	.163-04	-.654-01	.567-04
.70	.145-00	.573-02	-.702-03	-.801-02	.215-04	-.675-01	.755-04
1.00	.162-00	.759-02	-.932-03	-.103-01	.299-04	-.610-01	.111-03
L3 - SUBSHELL							
.05	-.498-01	.105-02	.121-03	-.299-02	.345-03	-.408-01	.415-03
.10	-.553-01	.136-02	.156-03	-.355-02	.448-03	-.414-01	.432-03
.15	-.595-01	.169-02	.187-03	-.358-02	.571-03	-.420-01	.446-03
.20	-.631-01	.193-02	.220-03	-.380-02	.629-03	-.425-01	.460-03
.30	-.687-01	.247-02	.280-03	-.414-02	.796-03	-.434-01	.483-03
.40	-.728-01	.298-02	.335-03	-.438-02	.947-03	-.443-01	.514-03
.50	-.756-01	.345-02	.385-03	-.455-02	.106-04	-.450-01	.529-03
.70	-.767-01	.425-02	.469-03	-.477-02	.130-04	-.459-01	.566-03
1.00	-.785-01	.514-02	.553-03	-.473-02	.150-04	-.465-01	.647-03
TOTAL L - SHELL							
.05	.133-01	.170-02	-.348-04	-.376-02	.455-03	-.395-01	.398-03
.10	.217-01	.207-02	-.229-04	-.445-02	.655-03	-.391-01	.390-03
.15	.294-01	.263-02	-.145-03	-.485-02	.876-03	-.289-01	.395-03
.20	.360-01	.367-02	-.219-02	-.528-02	.112-04	-.356-01	.395-03
.30	.512-01	.545-02	-.393-03	-.602-02	.165-04	-.388-01	.398-03
.40	.654-01	.737-02	-.569-03	-.661-02	.226-04	-.391-01	.404-03
.50	.793-01	.920-02	-.791-03	-.729-02	.276-04	-.394-01	.411-03
.70	.103+00	.125-01	-.117-02	-.842-02	.320-04	-.402-01	.426-03
1.00	.136-00	.130-01	-.163-02	-.886-02	.505-04	-.418-01	.457-03

TABLE 2.2.07 (CONTINUED)

Z=84

DC ICC E2, 2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
01 - SUBSHELL							
.02	.251-00	.172-01	-.170-02	-.121-01	.422-04	-.401-01	.413-01
.05	.307-00	.247-01	-.242-02	-.150-01	.604-04	-.403-01	.416-01
.10	.421-00	.454-01	-.453-02	-.212-01	.113-03	-.411-01	.421-01
.15	.421-00	.583-01	-.569-02	-.219-01	.143-03	-.413-01	.426-01
.20	.356-00	.559-01	-.563-02	-.190-01	.142-03	-.415-01	.431-01
.30	.256-00	.468-01	-.476-02	-.144-01	.122-03	-.420-01	.441-01
.40	.214-00	.403-01	-.414-02	-.123-01	.107-03	-.423-01	.451-01
.50	.197-00	.364-01	-.377-02	-.110-01	.084-04	-.429-01	.460-01
.70	.183-00	.319-01	-.337-02	-.113-01	.898-04	-.437-01	.475-01
1.00	.190-00	.285-01	-.310-02	-.117-01	.849-04	-.449-01	.503-01
02 - SUBSHELL							
.02	.791-01	.157-02	-.161-03	-.458-02	.525-05	-.539-02	.222-01
.05	.849-01	.181-02	-.210-03	-.495-02	.610-05	-.576-02	.239-01
.10	.927-01	.218-02	-.254-03	-.541-02	.742-05	-.105-01	.220-04
.15	.993-01	.253-02	-.297-03	-.582-02	.869-05	-.113-01	.324-01
.20	.105+00	.287-02	-.338-03	-.619-02	.994-05	-.121-01	.369-04
.30	.115-00	.354-02	-.420-03	-.660-02	.125-04	-.135-01	.461-04
.40	.125-00	.419-02	-.501-03	-.748-02	.130-04	-.149-01	.555-04
.50	.133-00	.483-02	-.583-03	-.805-02	.176-04	-.161-01	.652-04
.70	.148-00	.610-02	-.748-03	-.912-02	.229-04	-.164-01	.852-04
1.00	.167-00	.797-02	-.100-02	-.106-01	.315-04	-.215-01	.117-02
03 - SUBSHELL							
.02	-.503-01	.104-02	.120-03	-.303-02	.346-05	-.408-01	.418-03
.05	-.543-01	.124-02	.145-03	-.327-02	.412-05	-.412-01	.426-03
.10	-.594-01	.155-02	.170-03	-.351-02	.512-05	-.419-01	.441-03
.15	-.634-01	.185-02	.211-03	-.382-02	.606-05	-.424-01	.455-03
.20	-.668-01	.213-02	.243-03	-.402-02	.696-05	-.429-01	.470-03
.30	-.721-01	.269-02	.304-03	-.433-02	.865-05	-.439-01	.497-03
.40	-.760-01	.320-02	.360-03	-.458-02	.102-04	-.447-01	.524-03
.50	-.787-01	.368-02	.411-03	-.473-02	.115-04	-.453-01	.550-03
.70	-.816-01	.451-02	.497-03	-.492-02	.138-04	-.465-01	.598-03
1.00	-.812-01	.541-02	.582-03	-.491-02	.159-04	-.471-01	.660-03

TABLE 2.2.01 (CONTINUED)

FEET

DC 100 FEET

R	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
14 - SUBSHELL							
.02	-.575-01	.578-02	.570-03	-.205-02	.113-04	-.102-01	.269-06
.05	-.560-01	.563-02	.564-03	-.285-02	.143-04	-.111-01	.374-06
.10	-.593-01	.634-02	.640-03	-.294-02	.117-04	-.113-01	.513-06
.15	-.616-01	.701-02	.667-03	-.302-02	.157-04	-.134-01	.501-06
.20	-.628-01	.716-02	.723-03	-.311-02	.176-04	-.144-01	.589-06
.30	-.659-01	.815-02	.736-03	-.326-02	.189-04	-.161-01	.750-06
.40	-.662-01	.869-02	.830-03	-.357-02	.190-04	-.177-01	.845-06
.50	-.699-01	.912-02	.865-03	-.340-02	.205-04	-.190-01	.113-06
.70	-.719-01	.978-02	.911-03	-.256-02	.213-04	-.214-01	.150-06
1.00	-.729-01	.105-01	.951-03	-.363-02	.220-04	-.221-01	.205-06

FE - SUBSHELL

.02	.000	.000	.000	-.106-06	.293-07	.000	.000
.05	.000	.000	.000	-.270-06	.678-07	.000	.000
.10	.000	.000	.000	-.464-06	.796-07	.000	.000
.15	.000	.000	.000	-.591-06	.906-07	.000	.000
.20	.000	.000	.000	-.673-06	.101-06	.000	.000
.30	.000	.000	.000	-.762-06	.110-06	.000	.000
.40	.000	.000	.000	-.794-06	.139-06	.000	.000
.50	.000	.000	.000	-.794-06	.166-06	.000	.000
.70	.000	.000	.000	-.729-06	.279-06	.000	.000
1.00	.000	.000	.000	-.595-06	.307-06	.000	.000

TOTAL FE - SHELL

.02	.863-02	.142-02	-.224-04	-.315-02	.459-05	-.356-01	.404-03
.05	.172-01	.179-02	-.465-04	-.416-02	.370-04	-.396-01	.403-03
.10	.225-01	.249-02	-.976-04	-.470-02	.770-05	-.343-01	.402-03
.15	.504-01	.326-02	-.161-03	-.517-04	.100-04	-.392-01	.404-03
.20	.379-01	.409-02	-.235-03	-.560-02	.113-04	-.391-01	.402-03
.30	.527-01	.588-02	-.407-03	-.634-02	.177-04	-.401-01	.406-03
.40	.672-01	.772-02	-.594-03	-.701-02	.232-04	-.394-01	.411-03
.50	.513-01	.951-02	-.797-03	-.765-02	.287-04	-.397-01	.418-03
.70	.107-00	.127-01	-.118-02	-.870-02	.390-04	-.405-01	.404-03
1.00	.139-00	.165-01	-.165-02	-.102-01	.517-04	-.419-01	.461-03

TABLE 2.2.08

Z=58

DC ICC E2, E2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
K - SHELL							
.30	.457-02	.190-01	-.201-02	-.119-02	.537-04	-.443-01	.492-03
.40	.356-01	.208-01	-.223-02	-.296-02	.601-04	-.449-01	.504-03
.50	.626-01	.221-01	-.239-02	-.451-02	.650-04	-.434-01	.516-03
.70	.104+00	.234-01	-.258-02	-.698-02	.717-04	-.463-01	.539-03
1.00	.143-00	.239-01	-.272-02	-.943-02	.773-04	-.477-01	.575-03
L1 - SUBSHELL							
.05	.229-00	.156-01	-.162-02	-.116-01	.423-04	-.471-01	.555-03
.10	.403-00	.412-01	-.430-02	-.211-01	.113-03	-.474-01	.562-03
.15	.485-00	.637-01	-.639-02	-.260-01	.177-03	-.477-01	.568-03
.20	.453-00	.702-01	-.741-02	-.249-01	.196-03	-.480-01	.575-03
.30	.345-00	.629-01	-.670-02	-.195-01	.180-03	-.485-01	.588-03
.40	.283-00	.549-01	-.590-02	-.170-01	.160-03	-.490-01	.601-03
.50	.262-00	.495-01	-.538-02	-.137-01	.147-03	-.495-01	.613-03
.70	.244-00	.432-01	-.473-02	-.130-01	.133-03	-.505-01	.638-03
1.00	.239-00	.382-01	-.435-02	-.132-01	.125-03	-.519-01	.676-03
L2 - SUBSHELL							
.05	.938-01	.221-02	-.268-03	-.569-02	.812-05	-.107-01	.286-04
.10	.104+00	.273-02	-.332-03	-.532-02	.101-04	-.119-01	.357-04
.15	.112+00	.321-02	-.393-03	-.684-02	.120-04	-.130-01	.426-04
.20	.119+00	.367-02	-.451-03	-.731-02	.139-04	-.140-01	.494-04
.30	.131-00	.456-02	-.564-03	-.814-02	.175-04	-.158-01	.629-04
.40	.142-00	.541-02	-.676-03	-.889-02	.211-04	-.174-01	.764-04
.50	.152-00	.623-02	-.788-03	-.959-02	.248-04	-.189-01	.900-04
.70	.169-00	.790-02	-.101-02	-.109-01	.324-04	-.217-01	.118-03
1.00	.191-00	.103-01	-.135-02	-.126-01	.443-04	-.253-01	.161-03
L3 - SUBSHELL							
.05	-.632-01	.164-02	.198-03	-.395-02	.597-05	-.478-01	.573-03
.10	-.696-01	.208-02	.250-03	-.436-02	.752-05	-.485-01	.592-03
.15	-.747-01	.250-02	.299-03	-.468-02	.897-05	-.492-01	.612-03
.20	-.789-01	.290-02	.346-03	-.494-02	.103-04	-.498-01	.631-03
.30	-.856-01	.367-02	.434-03	-.536-02	.129-04	-.510-01	.668-03
.40	-.904-01	.438-02	.513-03	-.566-02	.152-04	-.520-01	.704-03
.50	-.938-01	.503-02	.587-03	-.587-02	.172-04	-.529-01	.740-03
.70	-.976-01	.616-02	.710-03	-.610-02	.206-04	-.543-01	.806-03
1.00	-.975-01	.740-02	.834-03	-.610-02	.237-04	-.553-01	.892-03
TOTAL L - SHELL							
.05	.171-01	.211-02	-.537-04	-.490-02	.752-05	-.464-01	.547-03
.10	.281-01	.302-02	-.124-03	-.564-02	.105-04	-.459-01	.543-03
.15	.382-01	.404-02	-.212-03	-.626-02	.138-04	-.456-01	.542-03
.20	.479-01	.515-02	-.316-03	-.682-02	.174-04	-.455-01	.542-03
.30	.668-01	.755-02	-.560-03	-.762-02	.230-04	-.455-01	.545-03
.40	.852-01	.100-01	-.832-03	-.871-02	.331-04	-.457-01	.552-03
.50	.103+00	.125-01	-.112-02	-.953-02	.413-04	-.461-01	.560-03
.70	.135-00	.168-01	-.165-02	-.110-01	.564-04	-.470-01	.581-03
1.00	.172-00	.215-01	-.230-02	-.128-01	.750-04	-.485-01	.616-03

TABLE 2.2.06 (CONTINUED)

Z=58

DC ICC E2, E2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
A1 - SUBSHELL							
.02	.299-00	.238-01	-.247-02	-.193-01	.847-04	-.476-01	.567-03
.05	.339-00	.299-01	-.311-02	-.177-01	.813-04	-.478-01	.571-03
.10	.477-00	.505-01	-.523-02	-.256-01	.137-03	-.481-01	.578-03
.15	.487-00	.655-01	-.688-02	-.262-01	.182-03	-.484-01	.585-03
.20	.462-00	.764-01	-.744-02	-.253-01	.197-03	-.436-01	.591-03
.30	.575-00	.656-01	-.699-02	-.213-01	.187-03	-.492-01	.604-03
.40	.320-00	.584-01	-.629-02	-.187-01	.170-03	-.497-01	.517-03
.50	.290-00	.530-01	-.576-02	-.175-01	.138-03	-.502-01	.530-02
.70	.265-00	.462-01	-.511-02	-.163-01	.143-03	-.511-01	.635-02
1.00	.255-00	.400-01	-.462-02	-.161-01	.133-03	-.525-01	.593-03
A2 - SUBSHELL							
.02	.985-01	.243-02	-.757-03	-.587-02	.530-05	-.123-01	.278-04
.05	.105+00	.276-02	-.335-03	-.637-02	.102-04	-.120-01	.401-04
.10	.114+00	.320-02	-.398-03	-.503-02	.121-04	-.115-01	.659-04
.15	.121+00	.374-02	-.450-03	-.711-02	.140-04	-.144-01	.122-04
.20	.127-00	.420-02	-.516-03	-.785-02	.159-04	-.150-01	.586-04
.30	.139-00	.500-02	-.650-03	-.854-02	.195-04	-.169-01	.718-04
.40	.149-00	.585-02	-.743-03	-.933-02	.232-04	-.184-01	.853-04
.50	.154-00	.679-02	-.830-03	-.109-01	.270-04	-.198-01	.990-04
.70	.175-00	.845-02	-.108-02	-.115-01	.267-04	-.223-01	.171-03
1.00	.196-00	.109-01	-.143-02	-.136-01	.469-04	-.201-01	.171-03
A3 - SUBSHELL							
.02	-.644-01	.165-02	.199-03	-.403-02	.005-05	-.478-01	.571-03
.05	-.690-01	.194-02	.234-03	-.452-02	.700-05	-.483-01	.555-03
.10	-.749-01	.259-02	.287-03	-.770-02	.065-05	-.490-01	.605-03
.15	-.797-01	.271-02	.338-03	-.500-02	.101-04	-.497-01	.625-03
.20	-.837-01	.322-02	.384-03	-.525-02	.115-04	-.503-01	.647-03
.30	-.900-01	.399-02	.473-03	-.567-02	.141-04	-.513-01	.682-02
.40	-.948-01	.472-02	.555-03	-.593-02	.164-04	-.523-01	.710-03
.50	-.979-01	.538-02	.629-03	-.613-02	.183-04	-.535-01	.755-03
.70	-.101+00	.654-02	.753-03	-.635-02	.218-04	-.549-01	.822-03
1.00	-.101+00	.731-02	.881-03	-.633-02	.251-04	-.561-01	.911-03

TABLE 2.2.08 (CONTINUED)

Z=38

DC 100 E2, 27

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
4 - SUBSHELL							
.02	-.600-01	.850-02	.865-03	-.719-02	.229-04	-.133-01	.424-04
.05	-.614-01	.913-02	.944-03	-.723-02	.244-04	-.143-01	.535-04
.10	-.620-01	.992-02	.102-02	-.729-02	.262-04	-.157-01	.646-04
.15	-.633-01	.106-01	.103-02	-.730-02	.276-04	-.170-01	.749-04
.20	-.660-01	.111-01	.115-02	-.746-02	.295-04	-.182-01	.929-04
.30	-.819-01	.119-01	.121-02	-.760-02	.305-04	-.206-01	.119-01
.40	-.919-01	.120-01	.126-02	-.771-02	.317-04	-.221-01	.145-01
.50	-.924-01	.131-01	.131-02	-.776-02	.325-04	-.232-01	.171-01
.70	-.937-01	.139-01	.136-02	-.784-02	.335-04	-.267-01	.241-01
1.00	-.955-01	.140-01	.141-02	-.786-02	.340-04	-.302-01	.305-04

15 - SUBSHELL

.02	.000	.000	.000	-.134-04	.102-06	.000	.000
.05	.000	.000	.000	-.326-04	.115-06	.000	.000
.10	.000	.000	.000	-.565-04	.133-06	.000	.000
.15	.000	.000	.000	-.719-04	.149-06	.000	.000
.20	.000	.000	.000	-.825-04	.164-06	.000	.000
.30	.000	.000	.000	-.942-04	.191-06	.000	.000
.40	.000	.000	.000	-.983-04	.215-06	.000	.000
.50	.000	.000	.000	-.911-04	.241-06	.000	.000
.70	.000	.000	.000	-.911-04	.252-06	.000	.000
1.00	.000	.000	.000	-.767-04	.277-06	.000	.000

TOTAL $\mu \sim$ SHELL

.02	.114-01	.222-02	-.371-04	-.496-02	.707-05	-.467-01	.552-03
.05	.164-01	.277-02	-.732-04	-.543-02	.559-05	-.405-01	.524-03
.10	.292-01	.360-02	-.148-03	-.611-02	.127-04	-.462-01	.522-03
.15	.305-01	.471-02	-.239-03	-.671-02	.160-04	-.460-01	.552-03
.20	.493-01	.561-02	-.344-03	-.726-02	.195-04	-.459-01	.553-03
.30	.689-01	.817-02	-.585-03	-.827-02	.272-04	-.459-01	.557-03
.40	.670-01	.103-01	-.352-03	-.912-02	.351-04	-.462-01	.565-03
.50	.105-00	.120-01	-.113-02	-.954-02	.430-04	-.465-01	.572-03
.70	.137-00	.172-01	-.156-02	-.114-01	.581-04	-.477-01	.592-03
1.00	.174-00	.220-01	-.232-02	-.132-01	.769-04	-.480-01	.627-03

TABLE 2.2.04

2-42

NO. 100, 12, 14

A	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
K - SHALL							
.50	.552-01	.296-01	.551-02	.512-02	.522-01	.510-01	.531-03
.60	.735-01	.515-01	.553-02	.535-02	.955-01	.516-01	.607-03
.50	.105-00	.526-01	.309-02	.727-02	.105-03	.522-01	.685-03
.70	.150-00	.354-01	.355-02	.101-01	.112-03	.533-01	.717-03
1.00	.189-00	.351-01	.592-02	.127-01	.117-03	.549-01	.701-03
L1 - SUBSHALL							
.05	.253-00	.190-01	.207-02	.134-01	.506-01	.577-01	.727-03
.10	.416-00	.242-01	.284-02	.216-01	.153-03	.550-01	.756-03
.15	.519-00	.636-01	.754-02	.235-01	.208-03	.553-01	.704-03
.20	.535-00	.816-01	.902-02	.503-01	.250-03	.556-01	.772-03
.30	.463-00	.825-01	.920-02	.272-01	.256-03	.562-01	.769-03
.40	.405-00	.714-01	.818-02	.242-01	.240-03	.568-01	.806-03
.50	.387-00	.690-01	.784-02	.224-01	.224-03	.573-01	.822-03
.70	.311-00	.603-01	.657-02	.208-01	.203-03	.584-01	.855-03
1.00	.313-00	.529-01	.629-02	.205-01	.182-03	.609-01	.905-03
L2 - SUBSHALL							
.05	.114-00	.328-02	.415-03	.724-02	.131-04	.136-01	.764-04
.10	.125-00	.395-02	.506-03	.797-02	.161-04	.150-01	.852-04
.15	.137-00	.483-02	.590-03	.638-02	.188-04	.165-01	.607-04
.20	.143-00	.524-02	.671-03	.513-02	.215-04	.174-01	.704-04
.30	.156-00	.641-02	.827-03	.101-01	.207-04	.195-01	.957-04
.40	.168-00	.753-02	.910-03	.116-01	.319-04	.215-01	.117-03
.50	.179-00	.862-02	.115-02	.110-01	.371-04	.250-01	.153-03
.70	.195-00	.107-01	.175-02	.152-01	.477-04	.261-01	.172-03
1.00	.223-00	.135-01	.189-02	.155-01	.673-04	.303-01	.251-03
L3 - SUBSHALL							
.05	.799-01	.154-02	.319-03	.519-02	.100-04	.575-01	.777-03
.10	.671-01	.317-02	.396-03	.566-02	.124-04	.555-01	.717-03
.15	.933-01	.375-02	.468-03	.608-02	.145-04	.571-01	.822-03
.20	.983-01	.431-02	.546-03	.678-02	.167-04	.579-01	.849-03
.30	.100-00	.537-02	.603-03	.688-02	.205-04	.593-01	.899-03
.40	.112-00	.635-02	.778-03	.727-02	.240-04	.605-01	.947-03
.50	.118-00	.727-02	.882-03	.750-02	.270-04	.616-01	.985-03
.70	.120-00	.879-02	.106-01	.775-02	.320-04	.634-01	.108-03
1.00	.121-00	.105-01	.124-02	.780-02	.367-04	.630-01	.170-03
TOTAL L - SHALL							
.05	.219-01	.215-02	.819-04	.603-02	.123-04	.539-01	.738-03
.10	.355-01	.437-02	.155-03	.727-02	.156-04	.544-01	.723-03
.15	.466-01	.570-02	.307-03	.799-02	.215-04	.531-01	.741-03
.20	.611-01	.714-02	.751-03	.864-02	.264-04	.529-01	.750-03
.30	.811-01	.102-01	.785-03	.995-02	.373-04	.529-01	.723-03
.40	.102-00	.134-01	.116-02	.111-01	.467-04	.531-01	.741-03
.50	.130-00	.166-01	.156-02	.122-01	.602-04	.534-01	.751-03
.70	.169-00	.227-01	.227-02	.141-01	.817-04	.544-01	.777-03
1.00	.212-00	.214-01	.517-02	.162-01	.102-03	.561-01	.822-03

TABLE 2.2.69 (CONTINUED)

Z=92

DC ICC C2, C2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
M1 - SUBSHELL							
.02	.352-00	.326-01	-.354-02	-.185-01	.965-04	-.353-01	.766-03
.05	.377-00	.376-01	-.403-02	-.203-01	.110-03	-.535-01	.771-03
.10	.475-00	.559-01	-.612-02	-.255-01	.168-03	-.558-01	.779-03
.15	.531-00	.725-01	-.802-02	-.290-01	.222-03	-.561-01	.785-03
.20	.528-00	.823-01	-.910-02	-.303-01	.253-03	-.564-01	.796-03
.30	.487-00	.841-01	-.939-02	-.334-01	.263-03	-.570-01	.813-03
.40	.433-00	.786-01	-.882-02	-.258-01	.251-03	-.573-01	.830-03
.50	.396-00	.727-01	-.827-02	-.201-01	.236-03	-.582-01	.846-03
.70	.356-00	.640-01	-.711-02	-.223-01	.216-03	-.593-01	.880-03
1.00	.312-00	.561-01	-.567-02	-.213-01	.200-03	-.609-01	.930-03

M2 - SUBSHELL

.02	.122-00	.370-02	-.467-03	-.768-02	.147-04	-.158-01	.630-04
.05	.120-00	.413-02	-.523-03	-.913-02	.165-04	-.162-01	.659-04
.10	.138-00	.480-02	-.610-03	-.877-02	.194-04	-.171-01	.738-04
.15	.146-00	.543-02	-.693-03	-.955-02	.221-04	-.181-01	.825-04
.20	.153-00	.604-02	-.773-03	-.984-02	.249-04	-.191-01	.916-04
.30	.166-00	.720-02	-.930-03	-.105-01	.300-04	-.209-01	.110-03
.40	.178-00	.832-02	-.108-02	-.116-01	.353-04	-.225-01	.129-03
.50	.188-00	.942-02	-.124-02	-.124-01	.406-04	-.242-01	.148-03
.70	.206-00	.116-01	-.154-02	-.135-01	.514-04	-.272-01	.186-03
1.00	.230-00	.147-01	-.200-02	-.158-01	.653-04	-.313-01	.245-03

M3 - SUBSHELL

.02	-.518-01	.250-02	.526-03	-.532-02	.102-04	-.556-01	.774-03
.05	-.871-01	.300-02	.377-03	-.566-02	.119-04	-.561-01	.790-03
.10	-.940-01	.363-02	.454-03	-.612-02	.143-04	-.570-01	.816-03
.15	-.995-01	.427-02	.526-03	-.647-02	.165-04	-.578-01	.842-03
.20	-.104-00	.479-02	.595-03	-.678-02	.166-04	-.585-01	.868-03
.30	-.112-00	.580-02	.724-03	-.723-02	.224-04	-.599-01	.918-03
.40	-.117-00	.685-02	.841-03	-.760-02	.259-04	-.612-01	.968-03
.50	-.121-00	.776-02	.946-03	-.784-02	.290-04	-.624-01	.102-02
.70	-.125-00	.934-02	.112-02	-.811-02	.340-04	-.642-01	.111-02
1.00	-.125-00	.111-01	.130-02	-.810-02	.367-04	-.650-01	.123-02

TABLE 2.2.09 (CONTINUED)

Z=92

DC ICC E2,M2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(M2)	C2(M2)
M4 - SUBSHELL							
.02	-.111+00	.130-01	.141-02	-.604-02	.383-04	-.171-01	.742-04
.05	-.112+00	.138-01	.149-02	-.609-02	.403-04	-.182-01	.863-04
.10	-.113+00	.147-01	.159-02	-.614-02	.427-04	-.195-01	.106-03
.15	-.115+00	.155-01	.167-02	-.622-02	.447-04	-.214-01	.125-03
.20	-.116+00	.162-01	.173-02	-.628-02	.461-04	-.228-01	.143-03
.30	-.118+00	.172-01	.182-02	-.639-02	.482-04	-.253-01	.181-03
.40	-.120+00	.180-01	.189-02	-.647-02	.497-04	-.275-01	.218-03
.50	-.121+00	.186-01	.196-02	-.651-02	.508-04	-.294-01	.255-03
.70	-.121+00	.196-01	.201-02	-.651-02	.517-04	-.328-01	.330-03
1.00	-.119+00	.203-01	.206-02	-.641-02	.519-04	-.370-01	.441-03

M5 - SUBSHELL

.02	.000	.000	.000	-.171-04	.169-06	.000	.000
.05	.000	.000	.000	-.367-04	.189-06	.000	.000
.10	.000	.000	.000	-.669-04	.215-06	.000	.000
.15	.000	.000	.000	-.860-04	.239-06	.000	.000
.20	.000	.000	.000	-.987-04	.260-06	.000	.000
.30	.000	.000	.000	-.113-03	.296-06	.000	.000
.40	.000	.000	.000	-.119-03	.327-06	.000	.000
.50	.000	.000	.000	-.119-03	.356-06	.000	.000
.70	.000	.000	.000	-.112-03	.433-06	.000	.000
1.00	.000	.000	.000	-.966-04	.717-06	.000	.000

TOTAL M - SHELL

.02	.149-01	.342-02	-.609-04	-.646-02	.132-04	-.544-01	.750-03
.05	.239-01	.412-02	-.115-03	-.704-02	.157-04	-.541-01	.748-03
.10	.375-01	.537-02	-.223-03	-.706-02	.202-04	-.538-01	.747-03
.15	.505-01	.671-02	-.352-03	-.860-02	.250-04	-.536-01	.746-03
.20	.630-01	.814-02	-.487-03	-.927-02	.300-04	-.535-01	.746-03
.30	.870-01	.112-01	-.628-03	-.105-01	.408-04	-.534-01	.750-03
.40	.110+00	.143-01	-.119-02	-.116-01	.520-04	-.537-01	.758-03
.50	.132-00	.173-01	-.157-02	-.127-01	.631-04	-.540-01	.768-03
.70	.171-00	.228-01	-.229-02	-.145-01	.843-04	-.550-01	.794-03
1.00	.215-00	.290-01	-.320-02	-.167-01	.111-03	-.566-01	.839-03

TABLE 2.2.10

Z=96

DC 100 E2, E2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
K - SHELL							
.30	.861-01	.463-01	-.538-02	-.639-02	.156-03	-.587-01	.863-03
.40	.130-00	.472-01	-.552-02	-.908-02	.162-03	-.594-01	.883-03
.50	.165-00	.476-01	-.563-02	-.112-01	.167-03	-.601-01	.904-03
.70	.210-00	.471-01	-.566-02	-.142-01	.171-03	-.614-01	.945-03
1.00	.246-00	.456-01	-.563-02	-.165-01	.175-03	-.633-01	.101-02
L1 - SUBSHELL							
.10	.442-00	.506-01	-.578-02	-.250-01	.166-03	-.645-01	.104-02
.15	.553-00	.766-01	-.879-02	-.318-01	.253-03	-.649-01	.105-02
.20	.599-00	.941-01	-.109-01	-.350-01	.314-03	-.652-01	.106-02
.30	.577-00	.104+00	-.121-01	-.347-01	.354-03	-.659-01	.109-02
.40	.525-00	.100+00	-.116-01	-.323-01	.348-03	-.666-01	.111-02
.50	.485-00	.942-01	-.112-01	-.303-01	.333-03	-.672-01	.113-02
.70	.437-00	.837-01	-.101-01	-.281-01	.307-03	-.685-01	.117-02
1.00	.404-00	.730-01	-.915-02	-.269-01	.285-03	-.703-01	.124-02
L2 - SUBSHELL							
.05	.141-00	.498-02	-.656-03	-.930-02	.216-04	-.175-01	.766-04
.10	.153-00	.594-02	-.707-03	-.102-01	.260-04	-.191-01	.920-04
.15	.164-00	.682-02	-.907-03	-.109-01	.301-04	-.206-01	.107-03
.20	.173-00	.765-02	-.102-02	-.115-01	.341-04	-.219-01	.121-03
.30	.188-00	.922-02	-.124-02	-.127-01	.417-04	-.243-01	.148-03
.40	.202-00	.107-01	-.145-02	-.137-01	.493-04	-.264-01	.175-03
.50	.214-00	.122-01	-.166-02	-.147-01	.569-04	-.284-01	.202-03
.70	.236-00	.150-01	-.208-02	-.164-01	.722-04	-.319-01	.256-03
1.00	.263-00	.190-01	-.270-02	-.188-01	.960-04	-.367-01	.338-03
L3 - SUBSHELL							
.05	-.731-01	.205-02	.258-03	-.469-02	.816-05	-.455-01	.519-03
.10	-.795-01	.251-02	.316-03	-.510-02	.994-05	-.462-01	.536-03
.15	-.846-01	.293-02	.369-03	-.542-02	.116-04	-.468-01	.552-03
.20	-.889-01	.334-02	.419-03	-.569-02	.132-04	-.474-01	.569-03
.30	-.956-01	.410-02	.513-03	-.612-02	.160-04	-.486-01	.601-03
.40	-.101+00	.480-02	.598-03	-.643-02	.186-04	-.496-01	.632-03
.50	-.104+00	.545-02	.676-03	-.666-02	.210-04	-.506-01	.663-03
.70	-.109+00	.656-02	.808-03	-.693-02	.249-04	-.522-01	.722-03
1.00	-.110+00	.781-02	.950-03	-.697-02	.289-04	-.538-01	.801-03
TOTAL L - SHELL							
.10	.579-01	.539-02	-.412-03	-.827-02	.220-04	-.570-01	.846-03
.15	.741-01	.709-02	-.601-03	-.924-02	.285-04	-.576-01	.862-03
.20	.893-01	.893-02	-.812-03	-.101-01	.358-04	-.581-01	.887-03
.30	.118+00	.129-01	-.123-02	-.116-01	.509-04	-.591-01	.919-03
.40	.146-00	.170-01	-.130-02	-.133-01	.672-04	-.600-01	.946-03
.50	.171-00	.211-01	-.232-02	-.148-01	.838-04	-.609-01	.972-03
.70	.216-00	.236-01	-.332-02	-.173-01	.115-03	-.625-01	.102-02
1.00	.267-00	.372-01	-.455-02	-.202-01	.155-03	-.649-01	.110-02

TABLE 2.2.10 (CONTINUED)

Z=96

DC ICC E2, E2

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
M1 - SUBSHELL							
.02	.415-00	.445-01	-.305-02	-.233-01	.144-03	-.644-01	.104-02
.05	.423-00	.468-01	-.533-02	-.239-01	.152-03	-.646-01	.104-02
.10	.508-00	.647-01	-.740-02	-.289-01	.212-03	-.649-01	.103-02
.15	.571-00	.822-01	-.945-02	-.330-01	.273-03	-.653-01	.106-02
.20	.598-00	.944-01	-.109-01	-.351-01	.316-03	-.656-01	.108-02
.30	.584-00	.103+00	-.120-01	-.351-01	.351-03	-.663-01	.110-02
.40	.544-00	.101+00	-.119-01	-.333-01	.350-03	-.669-01	.112-02
.50	.508-00	.959-01	-.114-01	-.316-01	.339-03	-.675-01	.114-02
.70	.460-00	.864-01	-.104-01	-.295-01	.317-03	-.688-01	.118-02
1.00	.422-00	.765-01	-.943-02	-.280-01	.296-03	-.706-01	.125-02
M2 - SUBSHELL							
.02	.150-00	.564-02	-.741-03	-.987-02	.243-04	-.204-01	.104-03
.05	.158-00	.621-02	-.818-03	-.104-01	.269-04	-.207-01	.108-03
.10	.168-00	.709-02	-.936-03	-.111-01	.310-04	-.217-01	.119-03
.15	.177-00	.792-02	-.105-02	-.118-01	.349-04	-.228-01	.131-03
.20	.185-00	.872-02	-.116-02	-.123-01	.388-04	-.239-01	.143-03
.30	.199-00	.102-01	-.138-02	-.134-01	.463-04	-.259-01	.169-03
.40	.212-00	.117-01	-.159-02	-.144-01	.537-04	-.279-01	.195-03
.50	.223-00	.131-01	-.179-02	-.153-01	.612-04	-.297-01	.221-03
.70	.243-00	.159-01	-.220-02	-.170-01	.763-04	-.330-01	.274-03
1.00	.269-00	.199-01	-.282-02	-.192-01	.999-04	-.376-01	.354-03
M3 - SUBSHELL							
.02	-.104+00	.407-02	.534-03	-.702-02	.175-04	-.647-01	.103-02
.05	-.110+00	.466-02	.609-03	-.744-02	.200-04	-.653-01	.107-02
.10	-.118+00	.554-02	.722-03	-.798-02	.236-04	-.663-01	.110-02
.15	-.125+00	.637-02	.827-03	-.841-02	.269-04	-.672-01	.114-02
.20	-.130-00	.716-02	.927-03	-.877-02	.301-04	-.681-01	.117-02
.30	-.139-00	.865-02	.111-02	-.935-02	.359-04	-.698-01	.124-02
.40	-.145-00	.100-01	.128-02	-.976-02	.411-04	-.713-01	.131-02
.50	-.150-00	.113-01	.143-02	-.101-01	.456-04	-.727-01	.137-02
.70	-.155-00	.134-01	.168-02	-.104-01	.530-04	-.750-01	.149-02
1.00	-.155-00	.158-01	.194-02	-.104-01	.600-04	-.774-01	.166-02

TABLE 2.2.10 (CONTINUED)

Z=96

60 100 27,14

K	A1(E2)	A2(E2)	A3(E2)	A4(E2)	A5(E2)	C1(E2)	C2(E2)
M4 - SUBSHELL							
.02	-.151-00	.190-01	.224-02	-.856-02	.633-04	-.219-01	.121-03
.05	-.152-00	.207-01	.234-02	-.865-02	.662-04	-.232-01	.135-03
.10	-.153-00	.210-01	.246-02	-.868-02	.692-04	-.232-01	.167-03
.15	-.154-00	.226-01	.255-02	-.871-02	.716-04	-.270-01	.155-03
.20	-.155-00	.257-01	.263-02	-.875-02	.735-04	-.260-01	.222-03
.30	-.156-00	.257-01	.274-02	-.880-02	.760-04	-.2515-01	.275-03
.40	-.157-00	.257-01	.285-02	-.885-02	.772-04	-.340-01	.327-03
.50	-.157-00	.263-01	.289-02	-.883-02	.785-04	-.353-01	.350-03
.70	-.156-00	.275-01	.290-02	-.875-02	.797-04	-.403-01	.464-03
1.00	-.152-00	.257-01	.301-02	-.845-02	.794-04	-.455-01	.640-03

M5 - SUBSHELL

.02	.000	.000	.000	-.222-04	.262-06	.000	.000
.05	.000	.000	.000	-.466-04	.314-06	.000	.000
.10	.000	.000	.000	-.800-04	.353-06	.000	.000
.15	.000	.000	.000	-.103-03	.363-06	.000	.000
.20	.000	.000	.000	-.119-03	.419-06	.000	.000
.30	.000	.000	.000	-.137-03	.470-06	.000	.000
.40	.000	.000	.000	-.144-03	.511-06	.000	.000
.50	.000	.000	.000	-.145-03	.546-06	.000	.000
.70	.000	.000	.000	-.136-03	.616-06	.000	.000
1.00	.000	.000	.000	-.123-03	.826-06	.000	.000

TOTAL E - SHELL

.02	.199-01	.527-02	-.102-03	-.848-02	.221-04	-.633-01	.107-02
.05	.511-01	.622-02	-.123-03	-.914-02	.258-04	-.631-01	.101-02
.10	.780-01	.787-02	-.359-03	-.101-01	.323-04	-.627-01	.101-02
.15	.642-01	.963-02	-.522-03	-.110-01	.351-04	-.625-01	.101-02
.20	.790-01	.115-01	-.725-03	-.118-01	.432-04	-.623-01	.101-02
.30	.109-00	.154-01	-.113-02	-.134-01	.613-04	-.623-01	.101-02
.40	.130-00	.193-01	-.167-02	-.147-01	.769-04	-.625-01	.102-02
.50	.164-00	.232-01	-.218-02	-.160-01	.924-04	-.628-01	.106-02
.70	.210-00	.301-01	-.315-02	-.183-01	.122-03	-.638-01	.107-02
1.00	.263-00	.382-01	-.439-02	-.210-01	.150-03	-.657-01	.112-02

TABLE 2.3
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DYNAMIC CORRECTION COEFFICIENTS
FOR CONVERSION COEFFICIENTS OF
E3 AND H3
TRANSITIONS

TABLE 2.3.01

2-60

DC ICC E₀₁₁₃

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(I3)	C2(I3)
				K - SHELL			
.10	-.141-01	.273-03	-.439-04	.103-02	.177-05	-.139-01	.481-04
.15	-.139-01	.341-03	-.550-04	.096-03	.222-05	-.139-01	.486-04
.20	-.152-01	.409-03	-.561-04	.092-03	.268-05	-.140-01	.490-04
.30	-.106-01	.543-03	-.183-04	.701-03	.360-05	-.141-01	.498-04
.40	-.133-02	.668-03	-.109-05	.392-03	.447-05	-.141-01	.504-04
.50	-.132-02	.782-03	-.128-03	.164-04	.528-05	-.141-01	.510-04
.70	.517-02	.967-03	-.160-05	-.713-02	.666-05	-.142-01	.522-04
1.00	.165-01	.115-02	-.193-05	-.173-02	.814-05	-.143-01	.539-04
				L1 - SUBSHELL			
.02	.179-01	.133-03	-.214-04	-.135-02	.661-06	-.144-01	.520-04
.05	.465-01	.731-03	-.118-03	-.532-02	.474-05	-.145-01	.523-04
.10	.119-00	.429-02	-.692-03	-.979-02	.279-04	-.145-01	.529-04
.15	.482-01	.550-02	-.566-03	-.430-02	.224-04	-.146-01	.534-04
.20	.194-01	.244-02	-.396-03	-.194-02	.161-04	-.147-01	.539-04
.30	.869-02	.179-02	-.292-03	-.104-02	.119-04	-.148-01	.548-04
.40	.917-02	.161-02	-.267-03	-.105-02	.109-04	-.149-01	.556-04
.50	.119-01	.159-02	-.251-03	-.122-02	.107-04	-.149-01	.563-04
.70	.187-01	.159-02	-.263-03	-.191-02	.110-04	-.149-01	.576-04
1.00	.277-01	.162-02	-.272-03	-.273-02	.115-04	-.149-01	.595-04
				L2 - SUBSHELL			
.02	.745-02	.139-04	-.252-05	-.676-03	.114-06	-.109-02	.301-06
.05	.894-02	.201-04	-.365-05	-.812-03	.166-06	-.130-02	.428-06
.10	.109-01	.303-04	-.551-05	-.994-03	.251-06	-.160-02	.641-06
.15	.176-01	.407-04	-.743-05	-.115-02	.339-05	-.183-02	.862-06
.20	.141-01	.515-04	-.942-05	-.129-02	.431-06	-.207-02	.109-05
.30	.168-01	.742-04	-.136-04	-.165-02	.626-06	-.251-02	.159-05
.40	.191-01	.983-04	-.181-04	-.178-02	.836-06	-.291-02	.212-05
.50	.216-01	.124-05	-.229-04	-.200-02	.106-05	-.328-02	.271-05
.70	.257-01	.178-03	-.332-04	-.241-02	.155-05	-.397-02	.597-05
1.00	.312-01	.266-03	-.505-04	-.297-02	.236-05	-.492-02	.611-05
				L3 - SUBSHELL			
.02	-.690-02	.198-04	.171-06	-.477-04	.570-09	-.107-01	.289-04
.05	-.838-02	.303-04	.255-06	-.564-04	.862-09	-.108-01	.494-04
.10	-.103-01	.488-04	.395-06	-.726-04	.135-08	-.110-01	.302-04
.15	-.120-01	.691-04	.547-06	-.850-04	.187-08	-.111-01	.311-04
.20	-.134-01	.911-04	.677-06	-.959-04	.241-08	-.112-01	.315-04
.30	-.157-01	.139-03	.945-06	-.115-03	.355-08	-.115-01	.325-04
.40	-.175-01	.192-03	.118-05	-.131-03	.476-08	-.117-01	.351-04
.50	-.188-01	.249-03	.136-05	-.145-03	.604-08	-.119-01	.360-04
.70	-.205-01	.366-03	.152-05	-.165-03	.897-08	-.122-01	.396-04
1.00	-.211-01	.504-03	.117-05	-.195-03	.151-07	-.126-01	.444-04
				TOTAL L - SHELL			
.02	-.120-02	.179-04	-.955-06	-.298-03	.480-07	-.110-01	.305-04
.05	-.737-05	.298-04	-.203-05	-.398-03	.963-07	-.114-01	.373-04
.10	-.105-03	.553-04	-.477-05	-.551-03	.215-06	-.117-01	.365-04
.15	.495-05	.883-04	-.876-05	-.671-03	.385-06	-.120-01	.367-04
.20	.116-02	.128-03	-.139-04	-.738-03	.604-06	-.122-01	.404-04
.30	.276-02	.225-03	-.276-04	-.911-03	.118-05	-.125-01	.429-04
.40	.476-02	.338-03	-.477-04	-.110-02	.190-05	-.128-01	.449-04
.50	.718-02	.459-03	-.630-04	-.125-02	.270-05	-.130-01	.466-04
.70	.129-03	.699-03	-.107-03	-.173-02	.440-05	-.134-01	.493-04
1.00	.218-01	.995-03	-.156-02	-.241-02	.669-05	-.139-01	.527-04

TABLE 2.3.02

Z=64

DC ICC F3, 3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
K ~ SHELL							
.15	-.156-01	.536-03	-.924-04	.119-02	.399-05	-.161-01	.652-01
.20	-.143-01	.634-03	-.109-03	.106-02	.471-05	-.162-01	.653-04
.30	-.105-01	.819-03	-.142-02	.690-03	.617-05	-.163-01	.669-04
.40	-.567-02	.988-03	-.172-03	.238-03	.752-05	-.164-01	.670-04
.50	-.366-03	.113-02	-.199-03	-.256-03	.872-05	-.165-01	.682-04
.70	.102-01	.136-02	-.240-03	-.124-02	.106-04	-.166-01	.705-04
1.00	.233-01	.157-02	-.280-03	-.248-02	.126-04	-.168-01	.731-04
L1 ~ SUBSHELL							
.05	.480-01	.741-03	-.127-03	-.403-02	.548-05	-.169-01	.711-04
.10	.123+00	.382-02	-.653-03	-.106-01	.254-04	-.170-01	.719-04
.15	.103+00	.530-02	-.915-03	-.931-02	.396-04	-.170-01	.726-04
.20	.577-01	.421-02	-.725-03	-.544-02	.316-04	-.171-01	.733-04
.30	.294-01	.301-02	-.523-03	-.299-02	.228-04	-.173-01	.745-04
.40	.250-01	.261-02	-.456-03	-.260-02	.199-04	-.174-01	.757-04
.50	.259-01	.245-02	-.429-03	-.269-02	.189-04	-.175-01	.757-04
.70	.313-01	.233-02	-.417-03	-.321-02	.183-04	-.176-01	.797-04
1.00	.393-01	.227-02	-.408-03	-.401-02	.184-04	-.178-01	.815-04
L2 ~ SUBSHELL							
.02	.924-02	.214-04	-.412-05	-.891-03	.199-06	-.145-02	.526-06
.05	.109-01	.299-04	-.577-05	-.105-02	.279-06	-.170-02	.723-06
.10	.131-01	.437-04	-.845-05	-.127-02	.409-06	-.204-02	.105-05
.15	.156-01	.576-04	-.112-04	-.146-02	.541-06	-.234-02	.139-05
.20	.167-01	.718-04	-.140-04	-.162-02	.678-06	-.262-02	.173-05
.30	.198-01	.101-03	-.198-04	-.193-02	.966-06	-.313-02	.246-05
.40	.225-01	.133-03	-.260-04	-.221-02	.127-05	-.359-02	.324-05
.50	.250-01	.165-03	-.325-04	-.246-02	.160-05	-.402-02	.408-05
.70	.296-01	.234-03	-.463-04	-.294-02	.230-05	-.483-02	.528-05
1.00	.357-01	.344-03	-.691-04	-.360-02	.347-05	-.594-02	.891-05
L3 ~ SUBSHELL							
.02	-.848-02	.298-04	.262-06	-.593-04	.883-09	-.123-01	.381-04
.05	-.101-01	.442-04	.380-06	-.716-04	.129-08	-.124-01	.388-04
.10	-.124-01	.694-04	.573-06	-.881-04	.198-08	-.126-01	.399-04
.15	-.142-01	.966-04	.765-06	-.102-03	.269-08	-.128-01	.411-04
.20	-.158-01	.126-03	.955-06	-.115-03	.342-08	-.129-01	.422-04
.30	-.184-01	.190-03	.131-05	-.136-03	.496-08	-.132-01	.445-04
.40	-.204-01	.259-03	.162-05	-.155-03	.657-08	-.135-01	.465-04
.50	-.219-01	.333-03	.186-05	-.171-03	.827-08	-.137-01	.486-04
.70	-.237-01	.495-03	.206-05	-.198-03	.120-07	-.141-01	.529-04
1.00	-.244-01	.704-03	.157-05	-.228-03	.194-07	-.147-01	.592-04
TOTAL L ~ SHELL							
.02	-.146-02	.265-04	-.147-05	-.389-03	.792-07	-.123-01	.380-04
.05	-.674-03	.425-04	-.310-05	-.521-03	.156-06	-.131-01	.439-04
.10	.271-03	.756-04	-.688-05	-.495-03	.332-06	-.135-01	.483-04
.15	.124-02	.118-03	-.123-04	-.847-03	.577-06	-.139-01	.514-04
.20	.227-02	.166-03	-.192-04	-.985-03	.891-06	-.141-01	.538-04
.30	.464-02	.290-03	-.374-04	-.125-02	.171-05	-.145-01	.575-04
.40	.744-02	.432-03	-.603-04	-.151-02	.274-05	-.148-01	.603-04
.50	.106-01	.586-03	-.860-04	-.179-02	.390-05	-.151-01	.627-04
.70	.177-01	.894-03	-.140-03	-.238-02	.637-05	-.156-01	.660-04
1.00	.283-01	.128-02	-.213-03	-.327-02	.974-05	-.162-01	.714-04

TABLE 2.3.03

Z=68

DC ICC E2,13

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(I13)	C2(I13)
K - SHELL							
.15	-.169-01	.847-03	-.155-03	.135-02	.712-05	-.187-01	.874-04
.20	-.147-01	.987-03	-.181-03	.112-02	.834-05	-.188-01	.685-04
.30	-.698-02	.124-02	-.229-03	.553-03	.106-04	-.189-01	.688-04
.40	-.233-02	.146-02	-.271-03	-.951-04	.126-04	-.190-01	.912-04
.50	.447-02	.185-02	-.307-03	-.766-03	.143-04	-.191-01	.926-04
.70	.173-01	.192-02	-.360-03	-.702-02	.169-04	-.193-01	.930-04
1.00	.321-01	.213-02	-.406-03	-.351-02	.194-04	-.196-01	.987-04
L1 - SUBSHELL							
.05	.499-01	.815-03	-.149-03	-.446-02	.682-05	-.197-01	.966-04
.10	.116+00	.340-02	-.623-03	-.106-01	.286-04	-.198-01	.976-04
.15	.142-00	.617-02	-.113-02	-.133-01	.521-04	-.199-01	.986-04
.20	.166-00	.617-02	-.114-02	-.104-01	.523-04	-.199-01	.995-04
.30	.627-01	.475-02	-.879-03	-.630-02	.407-04	-.201-01	.101-03
.40	.499-01	.405-02	-.751-03	-.514-02	.349-04	-.203-01	.103-03
.50	.469-01	.370-02	-.670-03	-.488-02	.322-04	-.204-01	.104-03
.70	.469-01	.338-02	-.636-03	-.511-02	.300-04	-.206-01	.107-03
1.00	.550-01	.317-02	-.604-03	-.577-02	.289-04	-.209-01	.111-03
L2 - SUBSHELL							
.05	.133-01	.445-04	-.911-05	-.136-02	.466-06	-.220-02	.122-05
.10	.156-01	.632-04	-.130-04	-.162-02	.664-06	-.261-02	.171-05
.15	.179-01	.818-04	-.168-04	-.184-02	.863-06	-.296-02	.221-05
.20	.198-01	.101-03	-.207-04	-.204-02	.107-05	-.329-02	.272-05
.30	.232-01	.140-03	-.283-04	-.240-02	.149-05	-.389-02	.380-05
.40	.263-01	.180-03	-.373-04	-.273-02	.192-05	-.442-02	.497-05
.50	.291-01	.222-03	-.462-04	-.303-02	.240-05	-.494-02	.615-05
.70	.341-01	.309-03	-.649-04	-.359-02	.340-05	-.588-02	.871-05
1.00	.409-01	.449-03	-.933-04	-.436-02	.506-05	-.717-02	.130-04
L3 - SUBSHELL							
.05	-.123-01	.646-04	.567-06	-.879-04	.195-03	-.143-01	.511-04
.10	-.143-01	.989-04	.133-06	-.107-03	.240-08	-.145-01	.527-04
.15	-.169-01	.136-03	.110-05	-.123-03	.388-08	-.147-01	.542-04
.20	-.187-01	.173-03	.135-05	-.137-03	.489-08	-.149-01	.556-04
.30	-.216-01	.260-03	.183-05	-.162-03	.697-08	-.152-01	.585-04
.40	-.238-01	.352-03	.224-05	-.184-03	.913-08	-.155-01	.614-04
.50	-.255-01	.449-03	.256-05	-.202-03	.114-07	-.158-01	.643-04
.70	-.276-01	.647-03	.280-05	-.233-03	.163-07	-.163-01	.701-04
1.00	-.283-01	.933-03	.213-05	-.266-03	.257-07	-.170-01	.787-04
TOTAL L - SHELL							
.05	-.562-03	.611-04	-.476-05	-.680-03	.255-06	-.150-01	.578-04
.10	.790-03	.104-03	-.100-04	-.905-03	.514-06	-.155-01	.638-04
.15	.219-02	.158-03	-.173-04	-.111-02	.870-06	-.160-01	.682-04
.20	.364-02	.221-03	-.266-04	-.130-02	.132-05	-.163-01	.717-04
.30	.692-02	.374-03	-.509-04	-.166-02	.248-05	-.168-01	.768-04
.40	.106-01	.553-03	-.813-04	-.203-02	.393-05	-.172-01	.808-04
.50	.147-01	.778-03	-.116-03	-.241-02	.559-05	-.176-01	.841-04
.70	.234-01	.114-02	-.189-03	-.318-02	.912-05	-.181-01	.896-04
1.00	.359-01	.164-02	-.288-03	-.430-02	.140-04	-.189-01	.964-04

TABLE 2.3.04

Z=72

DC ICC E3, M3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
K - SHELL							
.15	-.174-01	.136-02	-.264-03	.143-02	.129-04	-.217-01	.117-03
.20	-.158-01	.155-02	-.301-03	.105-02	.147-04	-.218-01	.116-03
.30	-.549-02	.189-02	-.370-03	.191-03	.181-04	-.219-01	.121-03
.40	.334-02	.218-02	-.427-03	-.717-03	.210-04	-.221-01	.123-03
.50	.120-01	.240-02	-.473-03	-.161-02	.233-04	-.222-01	.125-03
.70	.271-01	.270-02	-.536-03	-.317-02	.267-04	-.225-01	.128-03
1.00	.435-01	.291-02	-.586-03	-.490-02	.296-04	-.228-01	.133-03
L1 - SUBSHELL							
.05	.537-01	.949-03	-.184-03	-.509-02	.892-05	-.229-01	.132-03
.10	.112+00	.326-02	-.634-03	-.108-01	.308-04	-.230-01	.133-03
.15	.155-00	.631-02	-.123-02	-.153-01	.599-04	-.232-01	.134-03
.20	.150-00	.763-02	-.149-02	-.150-01	.727-04	-.233-01	.135-03
.30	.106+00	.690-02	-.135-02	-.109-01	.663-04	-.235-01	.136-03
.40	.842-01	.598-02	-.118-02	-.885-02	.580-04	-.237-01	.140-03
.50	.758-01	.542-02	-.107-02	-.867-02	.530-04	-.238-01	.142-03
.70	.723-01	.482-02	-.960-03	-.779-02	.479-04	-.241-01	.146-03
1.00	.746-01	.440-02	-.887-03	-.613-02	.448-04	-.245-01	.152-03
L2 - SUBSHELL							
.05	.163-01	.667-04	-.144-04	-.176-02	.778-06	-.285-02	.204-05
.10	.191-01	.921-04	-.199-04	-.207-02	.108-05	-.333-02	.279-05
.15	.215-01	.117-03	-.254-04	-.233-02	.138-05	-.375-02	.354-05
.20	.236-01	.142-03	-.305-04	-.237-02	.168-05	-.414-02	.430-05
.30	.274-01	.194-03	-.422-04	-.295-02	.230-05	-.464-02	.586-05
.40	.308-01	.246-03	-.539-04	-.338-02	.295-05	-.547-02	.753-05
.50	.339-01	.300-03	-.660-04	-.373-02	.363-05	-.607-02	.926-05
.70	.396-01	.413-03	-.914-04	-.439-02	.308-05	-.717-02	.129-04
1.00	.470-01	.590-03	-.132-03	-.529-02	.740-05	-.867-02	.189-04
L3 - SUBSHELL							
.05	-.149-01	.949-04	.852-06	-.108-03	.296-08	-.164-01	.675-04
.10	-.177-01	.142-03	.122-05	-.130-03	.431-08	-.167-01	.695-04
.15	-.201-01	.191-03	.158-05	-.149-03	.567-08	-.169-01	.715-04
.20	-.221-01	.244-03	.194-05	-.165-03	.706-08	-.171-01	.735-04
.30	-.254-01	.358-03	.259-05	-.194-03	.992-08	-.175-01	.773-04
.40	-.280-01	.481-03	.314-05	-.219-03	.129-07	-.179-01	.812-04
.50	-.299-01	.609-03	.355-05	-.240-03	.159-07	-.182-01	.851-04
.70	-.322-01	.872-03	.386-05	-.276-03	.225-07	-.189-01	.929-04
1.00	-.329-01	.125-02	.291-05	-.316-03	.348-07	-.197-01	.105-03
TOTAL L - SHELL							
.05	-.425-03	.886-04	-.734-05	-.886-03	.416-06	-.172-01	.760-04
.10	.151-02	.145-03	-.148-04	-.118-02	.804-06	-.180-01	.844-04
.15	.341-02	.214-03	-.248-04	-.144-02	.132-05	-.185-01	.906-04
.20	.536-02	.294-03	-.374-04	-.169-02	.196-05	-.189-01	.955-04
.30	.968-02	.487-03	-.697-04	-.218-02	.360-05	-.195-01	.103-03
.40	.144-01	.711-03	-.110-03	-.267-02	.565-05	-.200-01	.108-03
.50	.195-01	.956-03	-.156-03	-.317-02	.798-05	-.204-01	.113-03
.70	.301-01	.145-02	-.253-03	-.417-02	.130-04	-.211-01	.121-03
1.00	.448-01	.209-02	-.389-03	-.557-02	.200-04	-.220-01	.130-03

TABLE 2.3.04 (CONTINUED)

Z=72

DC ICC E3, i3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M1 - SUBSHELL							
.02	.840-01	.197-02	-.382-03	-.803-02	.185-04	-.231-01	.133-03
.05	.855-01	.205-02	-.397-03	-.817-02	.193-04	-.232-01	.134-03
.10	.128-00	.412-02	-.800-03	-.124-01	.389-04	-.233-01	.135-03
.15	.157-00	.647-02	-.126-02	-.154-01	.614-04	-.234-01	.137-03
.20	.153-00	.760-02	-.148-02	-.153-01	.725-04	-.235-01	.138-03
.30	.118+00	.723-02	-.142-02	-.121-01	.695-04	-.237-01	.140-03
.40	.959-01	.639-02	-.126-02	-.100-01	.620-04	-.239-01	.143-03
.50	.857-01	.581-02	-.115-02	-.905-02	.568-04	-.240-01	.145-03
.70	.794-01	.513-02	-.102-02	-.850-02	.511-04	-.243-01	.149-03
1.00	.795-01	.463-02	-.933-03	-.863-02	.472-04	-.247-01	.153-03
M2 - SUBSHELL							
.02	.177-01	.783-04	-.169-04	-.191-02	.912-06	-.336-02	.264-05
.05	.190-01	.901-04	-.195-04	-.205-02	.105-05	-.347-02	.302-05
.10	.213-01	.114-03	-.246-04	-.230-02	.133-05	-.380-02	.363-05
.15	.234-01	.138-03	-.300-04	-.254-02	.163-05	-.416-02	.434-05
.20	.254-01	.164-03	-.356-04	-.276-02	.193-05	-.450-02	.509-05
.30	.290-01	.215-03	-.470-04	-.316-02	.256-05	-.515-02	.667-05
.40	.323-01	.269-03	-.589-04	-.354-02	.323-05	-.576-02	.834-05
.50	.353-01	.324-03	-.712-04	-.389-02	.392-05	-.634-02	.101-04
.70	.408-01	.438-03	-.970-04	-.453-02	.537-05	-.741-02	.138-04
1.00	.482-01	.618-03	-.138-03	-.542-02	.775-05	-.889-02	.199-04
M3 - SUBSHELL							
.02	-.158-01	.104-03	.954-06	-.115-03	.330-08	-.164-01	.674-04
.05	-.172-01	.127-03	.114-05	-.126-03	.400-08	-.166-01	.687-04
.10	-.196-01	.174-03	.150-05	-.145-03	.533-08	-.168-01	.707-04
.15	-.218-01	.226-03	.187-05	-.163-03	.673-08	-.170-01	.727-04
.20	-.237-01	.280-03	.222-05	-.178-03	.816-08	-.172-01	.747-04
.30	-.268-01	.399-03	.288-05	-.206-03	.111-07	-.176-01	.787-04
.40	-.292-01	.526-03	.343-05	-.230-03	.142-07	-.180-01	.826-04
.50	-.311-01	.658-03	.384-05	-.252-03	.174-07	-.184-01	.865-04
.70	-.332-01	.928-03	.411-05	-.287-03	.244-07	-.191-01	.944-04
1.00	-.339-01	.131-02	.306-05	-.327-03	.384-07	-.199-01	.106-03

TABLE 2.3.04 (CONTINUED)

Z=72

DC ICC E3, E3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
H4 - SUBSHELL							
.02	.291-01	.222-03	-.211-05	-.138-03	.498-08	-.185-02	.861-06
.05	.330-01	.302-03	-.293-05	-.160-03	.708-08	-.222-02	.125-05
.10	.378-01	.434-03	-.435-05	-.192-03	.109-07	-.273-02	.191-06
.15	.415-01	.566-03	-.567-05	-.220-03	.153-07	-.317-02	.260-05
.20	.445-01	.700-03	-.750-05	-.246-03	.202-07	-.357-02	.333-05
.30	.487-01	.965-03	-.110-04	-.294-03	.319-07	-.431-02	.451-05
.40	.513-01	.123-02	-.149-04	-.337-03	.465-07	-.498-02	.663-05
.50	.528-01	.148-02	-.190-04	-.376-03	.653-07	-.561-02	.849-05
.70	.532-01	.195-02	-.277-04	-.446-03	.129-06	-.676-02	.126-04
1.00	.503-01	.255-02	-.413-04	-.531-03	.398-06	-.832-02	.196-04
H5 - SUBSHELL							
.02	-.125-01	.647-04	.140-04	-.139-02	.754-06	-.230-01	.134-03
.05	-.140-01	.855-04	.184-04	-.156-02	.995-06	-.231-01	.136-03
.10	-.161-01	.119-03	.256-04	-.179-02	.138-05	-.233-01	.141-03
.15	-.177-01	.153-03	.328-04	-.198-02	.177-05	-.234-01	.145-03
.20	-.191-01	.166-03	.399-04	-.212-02	.215-05	-.236-01	.149-03
.30	-.211-01	.250-03	.537-04	-.237-02	.289-05	-.237-01	.156-03
.40	-.225-01	.312-03	.667-04	-.253-02	.358-05	-.237-01	.162-03
.50	-.234-01	.368-03	.786-04	-.263-02	.422-05	-.235-01	.167-03
.70	-.237-01	.459-03	.978-04	-.268-02	.526-05	-.226-01	.173-03
1.00	-.217-01	.537-03	.114-03	-.247-02	.636-05	-.203-01	.171-03
TOTAL M - SHELL							
.02	-.220-03	.103-03	-.434-05	-.902-03	.437-06	-.170-01	.741-04
.05	.472-03	.128-03	-.682-05	-.105-02	.612-06	-.175-01	.792-04
.10	.210-02	.185-03	-.172-04	-.131-02	.101-05	-.181-01	.862-04
.15	.393-02	.255-03	-.278-04	-.156-02	.155-05	-.185-01	.917-04
.20	.592-02	.337-03	-.407-04	-.181-02	.220-05	-.189-01	.962-04
.30	.103-01	.529-03	-.731-04	-.230-02	.383-05	-.195-01	.103-03
.40	.151-01	.750-03	-.113-03	-.280-02	.584-05	-.200-01	.109-03
.50	.203-01	.988-03	-.158-03	-.330-02	.812-05	-.204-01	.113-03
.70	.308-01	.147-02	-.253-03	-.430-02	.130-04	-.211-01	.121-03
1.00	.455-01	.211-02	-.387-03	-.566-02	.200-04	-.220-01	.131-03

TABLE 2.3.05

Z=76

DC 100 E3, H3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(H3)	C2(H3)
K - SHELL							
.15	-.160-01	.220-02	-.450-03	.150-02	.231-04	-.250-01	.157-03
.20	-.103-01	.243-02	-.499-03	.687-03	.256-04	-.252-01	.158-03
.30	.120-02	.287-02	-.591-03	-.554-03	.306-04	-.254-01	.161-03
.40	.126-01	.321-02	-.666-03	-.178-02	.345-04	-.256-01	.164-03
.50	.231-01	.347-02	-.722-03	-.292-02	.376-04	-.257-01	.167-03
.70	.405-01	.377-02	-.791-03	-.480-02	.416-04	-.260-01	.172-03
1.00	.579-01	.394-02	-.837-03	-.674-02	.445-04	-.265-01	.179-03
L1 - SUBSHELL							
.05	.590-01	.115-02	-.235-03	-.592-02	.120-04	-.267-01	.178-03
.10	.112+00	.335-02	-.687-03	-.114-01	.353-04	-.268-01	.180-03
.15	.159-00	.632-02	-.130-02	-.164-01	.669-04	-.270-01	.182-03
.20	.174-00	.843-02	-.174-02	-.182-01	.896-04	-.271-01	.183-03
.30	.149-00	.902-02	-.187-02	-.159-01	.967-04	-.273-01	.187-03
.40	.125+00	.825-02	-.171-02	-.135-01	.892-04	-.275-01	.190-03
.50	.111+00	.756-02	-.158-02	-.122-01	.824-04	-.277-01	.193-03
.70	.101+00	.668-02	-.141-02	-.112-01	.740-04	-.281-01	.198-03
1.00	.985-01	.599-02	-.127-02	-.112-01	.680-04	-.286-01	.206-03
L2 - SUBSHELL							
.05	.199-01	.996-04	-.227-04	-.227-02	.129-05	-.368-02	.340-05
.10	.231-01	.134-03	-.306-04	-.263-02	.174-05	-.424-02	.452-05
.15	.257-01	.168-03	-.383-04	-.294-02	.219-05	-.474-02	.564-05
.20	.281-01	.201-03	-.460-04	-.322-02	.263-05	-.519-02	.676-05
.30	.324-01	.269-03	-.617-04	-.372-02	.354-05	-.600-02	.906-05
.40	.362-01	.337-03	-.778-04	-.417-02	.448-05	-.675-02	.114-04
.50	.396-01	.408-03	-.943-04	-.459-02	.545-05	-.744-02	.139-04
.70	.459-01	.552-03	-.129-03	-.536-02	.749-05	-.872-02	.191-04
1.00	.542-01	.777-03	-.183-03	-.640-02	.103-04	-.103-01	.275-04
L3 - SUBSHELL							
.05	-.181-01	.139-03	.128-05	-.133-03	.447-08	-.188-01	.886-04
.10	-.213-01	.203-03	.179-05	-.158-03	.636-08	-.191-01	.913-04
.15	-.239-01	.271-03	.229-05	-.180-03	.826-08	-.193-01	.939-04
.20	-.262-01	.342-03	.277-05	-.199-03	.102-07	-.196-01	.965-04
.30	-.300-01	.495-03	.366-05	-.232-03	.141-07	-.201-01	.102-03
.40	-.329-01	.658-03	.439-05	-.260-03	.181-07	-.205-01	.107-03
.50	-.350-01	.829-03	.494-05	-.285-03	.222-07	-.209-01	.112-03
.70	-.375-01	.117-02	.532-05	-.326-03	.309-07	-.217-01	.122-03
1.00	-.384-01	.167-02	.398-05	-.372-03	.471-07	-.228-01	.138-03
TOTAL L - SHELL							
.05	-.160-03	.128-03	-.114-04	-.115-02	.679-06	-.197-01	.996-04
.10	.245-02	.202-03	-.219-04	-.152-02	.126-05	-.206-01	.111-03
.15	.495-02	.290-03	-.356-04	-.186-02	.200-05	-.213-01	.120-03
.20	.751-02	.393-03	-.526-04	-.218-02	.292-05	-.217-01	.127-03
.30	.130-01	.634-03	-.956-04	-.282-02	.523-05	-.225-01	.137-03
.40	.190-01	.915-03	-.149-03	-.346-02	.809-05	-.231-01	.145-03
.50	.252-01	.122-02	-.209-03	-.410-02	.113-04	-.236-01	.151-03
.70	.379-01	.184-02	-.536-03	-.536-02	.185-04	-.245-01	.162-03
1.00	.550-01	.265-02	-.519-03	-.708-02	.282-04	-.255-01	.175-03

TABLE 2.3.05 (CONTINUED)

Z=76

DC ICC E₂,13

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(13)	C2(13)
M1 - SUBSHELL							
.02	.105+00	.297-02	-.607-02	-.107-01	.311-04	-.269-01	.181-02
.05	.970-01	.261-02	-.556-03	-.982-02	.275-04	-.270-01	.182-03
.10	.132-00	.447-02	-.917-03	-.135-01	.471-04	-.271-01	.184-02
.15	.164-00	.677-02	-.139-02	-.169-01	.717-04	-.273-01	.186-03
.20	.175-00	.842-02	-.174-02	-.182-01	.896-04	-.274-01	.187-02
.30	.158-00	.917-02	-.190-02	-.168-01	.984-04	-.276-01	.191-03
.40	.136-00	.861-02	-.179-02	-.147-01	.931-04	-.278-01	.194-03
.50	.122+00	.797-02	-.166-02	-.134-01	.870-04	-.280-01	.197-03
.70	.110+00	.706-02	-.149-02	-.122-01	.783-04	-.284-01	.203-03
1.00	.105+00	.625-02	-.134-02	-.118-01	.716-04	-.269-01	.211-03
M2 - SUBSHELL							
.02	.221-01	.123-03	-.279-04	-.252-02	.158-05	-.446-02	.499-05
.05	.234-01	.137-03	-.313-04	-.267-02	.178-05	-.453-02	.516-05
.10	.259-01	.168-03	-.384-04	-.295-02	.219-05	-.490-02	.603-05
.15	.282-01	.201-03	-.459-04	-.323-02	.262-05	-.530-02	.705-05
.20	.304-01	.235-03	-.527-04	-.348-02	.307-05	-.569-02	.814-05
.30	.344-01	.305-03	-.695-04	-.396-02	.399-05	-.644-02	.104-04
.40	.380-01	.372-03	-.858-04	-.439-02	.495-05	-.714-02	.123-04
.50	.414-01	.443-03	-.103-03	-.486-02	.594-05	-.781-02	.153-04
.70	.475-01	.590-03	-.137-03	-.555-02	.801-05	-.905-02	.206-04
1.00	.557-01	.618-03	-.193-03	-.656-02	.114-04	-.108-01	.291-04
M3 - SUBSHELL							
.02	-.196-01	.159-03	.149-05	-.144-03	.522-08	-.188-01	.888-04
.05	-.211-01	.190-03	.175-05	-.157-03	.617-08	-.190-01	.904-04
.10	-.237-01	.254-03	.224-05	-.178-03	.801-08	-.193-01	.931-04
.15	-.261-01	.324-03	.274-05	-.198-03	.994-08	-.195-01	.957-04
.20	-.283-01	.398-03	.322-05	-.216-03	.119-07	-.198-01	.983-04
.30	-.316-01	.556-03	.411-05	-.246-03	.160-07	-.203-01	.103-03
.40	-.345-01	.726-03	.484-05	-.275-03	.201-07	-.207-01	.109-03
.50	-.365-01	.902-03	.537-05	-.300-03	.244-07	-.211-01	.114-03
.70	-.369-01	.126-02	.570-05	-.346-03	.336-07	-.219-01	.124-03
1.00	-.395-01	.176-02	.421-05	-.387-03	.515-07	-.230-01	.140-03

TABLE 2.3.05 (CONTINUED)

Z=76

DC ICC E3, M3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M4 - SUBSHELL							
.02	.358-01	.335-03	-.324-05	-.174-03	.783-08	-.235-02	.139-05
.05	.402-01	.445-03	-.440-05	-.200-03	.109-07	-.278-02	.196-05
.10	.458-01	.627-03	-.642-05	-.237-03	.165-07	-.337-02	.291-05
.15	.500-01	.807-03	-.855-05	-.270-03	.227-07	-.339-02	.391-05
.20	.533-01	.987-03	-.108-04	-.301-03	.298-07	-.436-02	.494-05
.30	.581-01	.134-02	-.157-04	-.357-03	.462-07	-.522-02	.716-05
.40	.609-01	.169-02	-.210-04	-.408-03	.663-07	-.600-02	.956-05
.50	.624-01	.203-02	-.265-04	-.454-03	.907-07	-.673-02	.121-04
.70	.626-01	.264-02	-.384-04	-.535-03	.161-06	-.807-02	.178-04
1.00	.590-01	.342-02	-.568-04	-.634-03	.387-06	-.988-02	.273-04
M5 - SUBSHELL							
.02	-.157-01	.101-03	.230-04	-.184-02	.131-05	-.268-01	.182-03
.05	-.175-01	.130-03	.296-04	-.205-02	.168-05	-.270-01	.186-03
.10	-.199-01	.177-03	.402-04	-.233-02	.228-05	-.272-01	.192-03
.15	-.218-01	.224-03	.507-04	-.256-02	.288-05	-.275-01	.198-03
.20	-.234-01	.269-03	.610-04	-.275-02	.346-05	-.277-01	.204-03
.30	-.259-01	.358-03	.810-04	-.304-02	.458-05	-.279-01	.214-03
.40	-.275-01	.442-03	.997-04	-.325-02	.564-05	-.280-01	.224-03
.50	-.286-01	.519-03	.117-03	-.337-02	.660-05	-.280-01	.231-03
.70	-.290-01	.644-03	.145-03	-.344-02	.816-05	-.273-01	.242-03
1.00	-.268-01	.751-03	.160-03	-.320-02	.960-05	-.249-01	.243-03
TOTAL M - SHELL							
.02	.120-03	.158-03	-.689-05	-.121-02	.768-06	-.196-01	.979-04
.05	.111-02	.191-03	-.137-04	-.139-02	.103-05	-.201-01	.105-03
.10	.331-02	.265-03	-.259-04	-.172-02	.163-05	-.208-01	.114-03
.15	.571-02	.355-03	-.406-04	-.204-02	.240-05	-.214-01	.122-03
.20	.828-02	.458-03	-.582-04	-.235-02	.333-05	-.218-01	.128-03
.30	.138-01	.699-03	-.102-03	-.298-02	.565-05	-.225-01	.138-03
.40	.198-01	.975-03	-.154-03	-.362-02	.845-05	-.231-01	.146-03
.50	.261-01	.127-02	-.213-03	-.425-02	.116-04	-.236-01	.152-03
.70	.386-01	.187-02	-.338-03	-.551-02	.184-04	-.245-01	.163-03
1.00	.557-01	.267-02	-.517-03	-.721-02	.282-04	-.256-01	.176-03

TABLE 2.3.06

Z=80

DC ICC E3.13

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(E3)	C2(E3)
K - SHELL							
.20	-.271-02	.372-02	-.817-03	-.179-03	.443-04	-.290-01	.210-03
.30	.126-01	.430-02	-.935-03	-.169-02	.507-04	-.292-01	.214-03
.40	.267-01	.769-02	-.102-02	-.348-02	.559-04	-.295-01	.218-03
.50	.389-01	.495-02	-.108-02	-.485-02	.594-04	-.297-01	.221-03
.70	.578-01	.520-02	-.115-02	-.702-02	.635-04	-.301-01	.222-03
1.00	.754-01	.528-02	-.118-02	-.910-02	.660-04	-.305-01	.238-03
L1 - SUBSHELL							
.05	.658-01	.142-02	-.306-03	-.696-02	.165-04	-.310-01	.240-03
.10	.115+00	.361-02	-.780-03	-.123-01	.422-04	-.311-01	.242-03
.15	.160-00	.646-02	-.140-02	-.173-01	.759-04	-.313-01	.244-03
.20	.186-00	.890-02	-.192-02	-.203-01	.105-03	-.314-01	.246-03
.30	.154-00	.709-01	-.235-02	-.205-01	.128-03	-.317-01	.251-03
.40	.145-00	.106-01	-.231-02	-.186-01	.127-03	-.319-01	.255-03
.50	.150-00	.996-02	-.219-02	-.170-01	.120-03	-.321-01	.259-03
.70	.134-00	.892-02	-.197-02	-.155-01	.110-03	-.326-01	.266-03
1.00	.126-00	.775-02	-.178-02	-.142-01	.100-03	-.332-01	.277-03
L2 - SUBSHELL							
.05	.243-01	.148-03	-.353-04	-.290-02	.211-05	-.472-02	.559-03
.10	.278-01	.194-03	-.465-04	-.353-02	.278-05	-.537-02	.725-03
.15	.308-01	.239-03	-.573-04	-.369-02	.343-05	-.553-02	.689-03
.20	.336-01	.283-03	-.680-04	-.402-02	.408-05	-.647-02	.105-04
.30	.382-01	.372-03	-.896-04	-.460-02	.540-05	-.742-02	.155-04
.40	.424-01	.401-03	-.111-03	-.513-02	.674-05	-.823-02	.172-04
.50	.462-01	.551-03	-.134-03	-.561-02	.812-05	-.905-02	.207-04
.70	.531-01	.735-03	-.180-03	-.651-02	.110-04	-.106-01	.280-04
1.00	.622-01	.102-02	-.252-03	-.772-02	.156-04	-.126-01	.397-04
L3 - SUBSHELL							
.05	-.219-01	.203-03	.190-05	-.163-03	.607-08	-.213-01	.115-03
.10	-.255-01	.290-03	.261-05	-.192-03	.950-08	-.212-01	.119-03
.15	-.285-01	.282-03	.329-05	-.216-03	.119-07	-.221-01	.122-03
.20	-.311-01	.470-03	.394-05	-.221-03	.145-07	-.224-01	.126-03
.30	-.353-01	.682-03	.514-05	-.276-03	.198-07	-.229-01	.132-03
.40	-.385-01	.900-03	.612-05	-.308-03	.252-07	-.234-01	.139-03
.50	-.409-01	.112-02	.663-05	-.336-03	.306-07	-.239-01	.145-03
.70	-.438-01	.158-02	.730-05	-.383-03	.422-07	-.249-01	.159-03
1.00	-.446-01	.223-02	.542-05	-.437-03	.635-07	-.262-01	.160-03
TOTAL L - SHELL							
.05	.204-03	.186-03	-.175-04	-.148-02	.110-05	-.225-01	.129-03
.10	.363-02	.282-03	-.323-04	-.195-02	.195-05	-.236-01	.145-03
.15	.669-02	.395-03	-.511-04	-.238-02	.303-05	-.244-01	.157-03
.20	.102-01	.524-03	-.740-04	-.270-02	.434-05	-.250-01	.167-03
.30	.170-01	.876-03	-.131-03	-.360-02	.756-05	-.259-01	.161-03
.40	.243-01	.117-02	-.200-03	-.440-02	.115-04	-.266-01	.192-03
.50	.318-01	.155-02	-.279-03	-.520-02	.159-04	-.272-01	.201-03
.70	.466-01	.230-02	-.446-03	-.676-02	.234-04	-.282-01	.215-03
1.00	.663-01	.331-02	-.682-03	-.884-02	.391-04	-.295-01	.233-03

TABLE 2.3.06 (CONTINUED)

Z=80

DC ICC E3, E3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M1 - SUBSHELL							
.02	.130-00	.438-02	-.945-03	-.139-01	.510-04	-.313-01	.245-03
.05	.111+00	.340-02	-.734-03	-.119-01	.397-04	-.314-01	.246-03
.10	.140-00	.506-02	-.109-02	-.151-01	.592-04	-.315-01	.249-03
.15	.170-00	.725-02	-.157-02	-.185-01	.853-04	-.317-01	.251-03
.20	.186-00	.912-02	-.198-02	-.206-01	.108-03	-.318-01	.253-03
.30	.189-00	.108-01	-.236-02	-.210-01	.129-03	-.321-01	.257-03
.40	.174-00	.108-01	-.237-02	-.195-01	.130-03	-.323-01	.261-03
.50	.160-00	.103-01	-.227-02	-.182-01	.125-03	-.326-01	.266-03
.70	.143-00	.936-02	-.207-02	-.166-01	.115-03	-.330-01	.273-03
1.00	.133-00	.837-02	-.187-02	-.157-01	.105-03	-.336-01	.284-03
M2 - SUBSHELL							
.02	.276-01	.191-03	-.455-04	-.329-02	.271-05	-.586-02	.862-05
.05	.289-01	.209-03	-.498-04	-.345-02	.298-05	-.590-02	.873-05
.10	.315-01	.249-03	-.596-04	-.377-02	.357-05	-.628-02	.991-05
.15	.341-01	.292-03	-.700-04	-.408-02	.420-05	-.673-02	.114-04
.20	.364-01	.336-03	-.806-04	-.438-02	.484-05	-.717-02	.129-04
.30	.408-01	.424-03	-.102-03	-.493-02	.617-05	-.803-02	.162-04
.40	.448-01	.515-03	-.125-03	-.543-02	.754-05	-.883-02	.196-04
.50	.485-01	.606-03	-.147-03	-.590-02	.894-05	-.960-02	.231-04
.70	.553-01	.793-03	-.194-03	-.677-02	.119-04	-.110-01	.305-04
1.00	.642-01	.108-02	-.268-03	-.797-02	.165-04	-.130-01	.424-04
M3 - SUBSHELL							
.02	-.241-01	.242-03	.231-05	-.180-03	.815-08	-.215-01	.116-03
.05	-.257-01	.283-03	.265-05	-.193-03	.940-08	-.217-01	.118-03
.10	-.286-01	.369-03	.331-05	-.217-03	.119-07	-.220-01	.122-03
.15	-.313-01	.463-03	.399-05	-.240-03	.146-07	-.223-01	.125-03
.20	-.337-01	.562-03	.464-05	-.260-03	.173-07	-.226-01	.128-03
.30	-.376-01	.775-03	.583-05	-.296-03	.227-07	-.232-01	.135-03
.40	-.406-01	.100-02	.680-05	-.328-03	.283-07	-.237-01	.142-03
.50	-.429-01	.123-02	.749-05	-.355-03	.340-07	-.242-01	.149-03
.70	-.455-01	.170-02	.787-05	-.402-03	.462-07	-.251-01	.163-03
1.00	-.461-01	.237-02	.576-05	-.456-03	.692-07	-.264-01	.183-03

TABLE 2.3.06 (CONTINUED)

Z=80

DC ICC E3,13

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M4 - SUBSHELL							
.02	.439-01	.500-03	-.493-05	-.217-03	.121-07	-.296-02	.220-05
.05	.488-01	.652-03	-.657-05	-.247-03	.166-07	-.346-02	.305-05
.10	.552-01	.900-03	-.939-05	-.291-03	.245-07	-.415-02	.440-05
.15	.600-01	.114-02	-.124-04	-.331-03	.335-07	-.475-02	.580-05
.20	.638-01	.139-02	-.155-04	-.367-03	.435-07	-.550-02	.725-05
.30	.691-01	.187-02	-.222-04	-.433-03	.666-07	-.629-02	.103-04
.40	.722-01	.233-02	-.294-04	-.492-03	.943-07	-.719-02	.137-04
.50	.738-01	.277-02	-.370-04	-.546-03	.127-06	-.804-02	.172-04
.70	.737-01	.358-02	-.529-04	-.640-03	.213-06	-.959-02	.248-04
1.00	.691-01	.458-02	-.777-04	-.754-03	.434-06	-.117-01	.377-04
M5 - SUBSHELL							
.02	-.198-01	.157-03	.374-04	-.243-02	.223-05	-.312-01	.247-03
.05	-.219-01	.198-03	.471-04	-.268-02	.281-05	-.314-01	.252-03
.10	-.246-01	.263-03	.627-04	-.302-02	.374-05	-.318-01	.260-03
.15	-.269-01	.327-03	.779-04	-.330-02	.464-05	-.321-01	.268-03
.20	-.287-01	.390-03	.927-04	-.353-02	.552-05	-.324-01	.276-03
.30	-.316-01	.512-03	.121-03	-.389-02	.722-05	-.328-01	.292-03
.40	-.336-01	.626-03	.148-03	-.415-02	.881-05	-.330-01	.305-03
.50	-.349-01	.731-03	.173-03	-.431-02	.102-04	-.331-01	.317-03
.70	-.355-01	.902-03	.213-03	-.440-02	.126-04	-.326-01	.334-03
1.00	-.331-01	.105-02*	.246-03	-.412-02	.146-04	-.304-01	.341-03
TOTAL M - SHELL							
.02	.606-03	.240-03	-.108-04	-.160-02	.133-05	-.224-01	.128-03
.05	.205-02	.283-03	-.213-04	-.183-02	.173-05	-.230-01	.137-03
.10	.493-02	.378-03	-.389-04	-.223-02	.261-05	-.239-01	.150-03
.15	.802-02	.494-03	-.594-04	-.264-02	.373-05	-.245-01	.160-03
.20	.113-01	.624-03	-.833-04	-.303-02	.506-05	-.251-01	.169-03
.30	.182-01	.926-03	-.141-03	-.383-02	.830-05	-.260-01	.163-03
.40	.254-01	.127-02	-.210-03	-.462-02	.122-04	-.267-01	.193-03
.50	.329-01	.163-02	-.287-03	-.541-02	.165-04	-.273-01	.202-03
.70	.475-01	.237-02	-.450-03	-.694-02	.258-04	-.283-01	.217-03
1.00	.671-01	.336-02	-.683-03	-.900-02	.393-04	-.296-01	.235-03

TABLE 2.3.07

Z=84

OL ICC E3,15

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(E3)	C2(E3)
K - SHELL							
.20	.114-01	.585-02	-.133-02	-.188-02	.756-04	-.332-01	.276-03
.30	.306-01	.639-02	-.146-02	-.412-02	.833-04	-.336-01	.282-03
.40	.469-01	.673-02	-.154-02	-.604-02	.884-04	-.338-01	.287-03
.50	.603-01	.693-02	-.159-02	-.763-02	.918-04	-.341-01	.291-03
.70	.797-01	.706-02	-.164-02	-.995-02	.949-04	-.345-01	.300-03
1.00	.964-01	.697-02	-.163-02	-.120-01	.959-04	-.352-01	.314-03
L1 - SUBSHELL							
.05	.745-01	.179-02	-.407-03	-.829-02	.231-04	-.359-01	.322-03
.10	.121+00	.405-02	-.921-03	-.136-01	.524-04	-.360-01	.325-03
.15	.164-00	.685-02	-.156-02	-.186-01	.888-04	-.362-01	.327-03
.20	.194-00	.942-02	-.215-02	-.222-01	.123-03	-.363-01	.330-03
.30	.210-00	.123-01	-.281-02	-.244-01	.161-03	-.366-01	.336-03
.40	.200-00	.128-01	-.295-02	-.235-01	.170-03	-.369-01	.341-03
.50	.187-00	.125-01	-.289-02	-.222-01	.167-03	-.372-01	.346-03
.70	.169-00	.115-01	-.268-02	-.204-01	.156-03	-.377-01	.357-03
1.00	.157-00	.104-01	-.244-02	-.192-01	.144-03	-.384-01	.371-03
L2 - SUBSHELL							
.05	.290-01	.219-03	-.549-04	-.371-02	.343-05	-.604-02	.915-03
.10	.335-01	.282-03	-.706-04	-.420-02	.442-05	-.680-02	.116-04
.15	.368-01	.341-03	-.857-04	-.462-02	.538-05	-.746-02	.140-04
.20	.398-01	.400-03	-.101-03	-.500-02	.633-05	-.807-02	.164-04
.30	.450-01	.516-03	-.130-03	-.569-02	.822-05	-.917-02	.211-04
.40	.497-01	.631-03	-.160-03	-.630-02	.101-04	-.102-01	.259-04
.50	.539-01	.748-03	-.190-03	-.680-02	.121-04	-.111-01	.309-04
.70	.616-01	.982-03	-.251-03	-.789-02	.161-04	-.126-01	.410-04
1.00	.716-01	.134-02	-.347-03	-.929-02	.222-04	-.151-01	.571-04
L3 - SUBSHELL							
.05	-.265-01	.295-03	.279-05	-.198-03	.984-08	-.244-01	.149-03
.10	-.305-01	.413-03	.377-05	-.230-03	.134-07	-.248-01	.154-03
.15	-.340-01	.537-03	.470-05	-.258-03	.170-07	-.251-01	.158-03
.20	-.368-01	.663-03	.557-05	-.283-03	.205-07	-.254-01	.162-03
.30	-.416-01	.939-03	.717-05	-.326-03	.276-07	-.261-01	.171-03
.40	-.452-01	.123-02	.846-05	-.363-03	.346-07	-.267-01	.180-03
.50	-.479-01	.152-02	.935-05	-.395-03	.418-07	-.273-01	.188-03
.70	-.510-01	.212-02	.995-05	-.448-03	.570-07	-.284-01	.206-03
1.00	-.518-01	.297-02	.733-05	-.509-03	.848-07	-.299-01	.253-03
TOTAL L - SHELL							
.05	.741-03	.268-03	-.271-04	-.191-02	.177-05	-.256-01	.167-03
.10	.536-02	.394-03	-.481-04	-.251-02	.306-05	-.269-01	.188-03
.15	.943-02	.539-03	-.740-04	-.304-02	.462-05	-.278-01	.204-03
.20	.136-01	.702-03	-.105-03	-.356-02	.646-05	-.286-01	.218-03
.30	.220-01	.108-02	-.180-03	-.456-02	.110-04	-.297-01	.238-03
.40	.307-01	.150-02	-.271-03	-.555-02	.163-04	-.306-01	.253-03
.50	.395-01	.196-02	-.372-03	-.653-02	.224-04	-.313-01	.265-03
.70	.566-01	.289-02	-.587-03	-.842-02	.352-04	-.325-01	.285-03
1.00	.790-01	.413-02	-.893-03	-.109-01	.539-04	-.340-01	.309-03

TABLE 2.3.07 (CONTINUED)

Z=84

DC 100 E3, M3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M1 - SUBSHELL							
.02	.158-00	.632-02	-.143-02	-.178-01	.812-04	-.363-01	.329-03
.05	.129-00	.447-02	-.101-02	-.145-01	.576-04	-.364-01	.331-03
.10	.151-00	.591-02	-.134-02	-.171-01	.764-04	-.365-01	.333-03
.15	.178-00	.799-02	-.182-02	-.203-01	.104-03	-.367-01	.336-03
.20	.199-00	.992-02	-.226-02	-.227-01	.129-03	-.368-01	.339-03
.30	.212-00	.123-01	-.281-02	-.246-01	.161-03	-.371-01	.345-03
.40	.206-00	.129-01	-.297-02	-.241-01	.171-03	-.374-01	.350-03
.50	.195-00	.128-01	-.295-02	-.231-01	.171-03	-.377-01	.356-03
.70	.178-00	.120-01	-.278-02	-.214-01	.162-03	-.382-01	.366-03
1.00	.165-00	.108-01	-.255-02	-.201-01	.150-03	-.389-01	.381-03
M2 - SUBSHELL							
.02	.343-01	.294-03	-.734-04	-.428-02	.459-05	-.765-02	.147-04
.05	.355-01	.315-03	-.788-04	-.444-02	.493-05	-.763-02	.146-04
.10	.383-01	.367-03	-.919-04	-.480-02	.576-05	-.802-02	.161-04
.15	.410-01	.422-03	-.106-03	-.515-02	.666-05	-.851-02	.182-04
.20	.436-01	.479-03	-.121-03	-.549-02	.759-05	-.901-02	.204-04
.30	.484-01	.594-03	-.150-03	-.612-02	.947-05	-.997-02	.250-04
.40	.528-01	.711-03	-.180-03	-.669-02	.114-04	-.109-01	.298-04
.50	.568-01	.828-03	-.211-03	-.723-02	.134-04	-.118-01	.347-04
.70	.642-01	.107-02	-.273-03	-.824-02	.175-04	-.134-01	.450-04
1.00	.740-01	.143-02	-.370-03	-.961-02	.239-04	-.156-01	.612-04
M3 - SUBSHELL							
.02	-.297-01	.365-03	.354-05	-.223-03	.125-07	-.245-01	.150-03
.05	-.313-01	.419-03	.397-05	-.237-03	.141-07	-.247-01	.153-03
.10	-.345-01	.533-03	.486-05	-.264-03	.175-07	-.251-01	.157-03
.15	-.375-01	.660-03	.577-05	-.289-03	.211-07	-.254-01	.162-03
.20	-.401-01	.793-03	.665-05	-.312-03	.247-07	-.257-01	.166-03
.30	-.445-01	.108-02	.823-05	-.352-03	.320-07	-.264-01	.175-03
.40	-.478-01	.138-02	.950-05	-.388-03	.393-07	-.270-01	.184-03
.50	-.503-01	.169-02	.104-04	-.419-03	.468-07	-.276-01	.192-03
.70	-.531-01	.231-02	.108-04	-.472-03	.628-07	-.287-01	.210-03
1.00	-.537-01	.318-02	.784-05	-.533-03	.925-07	-.302-01	.238-03

TABLE 2.3.07 (CONTINUED)

Z=84

DC ICC E3,1,2

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M4 - SUBSHELL							
.02	.535-01	.742-03	-.742-05	-.268-03	.185-07	-.371-02	.345-05
.05	.592-01	.950-03	-.971-05	-.304-03	.243-07	-.428-02	.463-05
.10	.664-01	.129-02	-.136-04	-.356-03	.361-07	-.508-02	.656-05
.15	.719-01	.162-02	-.177-04	-.402-03	.487-07	-.577-02	.852-05
.20	.762-01	.195-02	-.221-04	-.444-03	.627-07	-.640-02	.105-04
.30	.821-01	.254-02	-.312-04	-.521-03	.950-07	-.754-02	.148-04
.40	.855-01	.320-02	-.410-04	-.590-03	.133-06	-.858-02	.193-04
.50	.871-01	.379-02	-.513-04	-.653-03	.178-06	-.955-02	.241-04
.70	.866-01	.484-02	-.726-04	-.761-03	.288-06	-.113-01	.344-04
1.00	.809-01	.613-02	-.106-03	-.892-03	.533-06	-.137-01	.516-04

M5 - SUBSHELL

.02	-.249-01	.242-03	.605-04	-.318-02	.378-05	-.362-01	.331-03
.05	-.272-01	.299-03	.746-04	-.349-02	.466-05	-.263-01	.338-03
.10	-.304-01	.389-03	.971-04	-.390-02	.607-05	-.365-01	.350-03
.15	-.330-01	.478-03	.119-03	-.424-02	.743-05	-.373-01	.361-03
.20	-.352-01	.564-03	.140-03	-.452-02	.876-05	-.377-01	.372-03
.30	-.386-01	.730-03	.181-03	-.497-02	.113-04	-.383-01	.393-03
.40	-.410-01	.885-03	.220-03	-.528-02	.137-04	-.387-01	.413-03
.50	-.425-01	.103-02	.254-03	-.548-02	.158-04	-.389-01	.420-03
.70	-.434-01	.126-02	.310-03	-.561-02	.192-04	-.387-01	.456-03
1.00	-.404-01	.145-02	.356-03	-.525-02	.220-04	-.386-01	.473-03

TOTAL M - SHELL

.02	.136-02	.363-03	-.170-04	-.213-02	.229-05	-.255-01	.167-03
.05	.335-02	.618-03	-.330-04	-.241-02	.288-05	-.263-01	.179-03
.10	.710-02	.540-03	-.584-04	-.290-02	.418-05	-.273-01	.196-03
.15	.110-01	.687-03	-.871-04	-.339-02	.579-05	-.281-01	.210-03
.20	.151-01	.852-03	-.120-03	-.389-02	.768-05	-.288-01	.221-03
.30	.235-01	.123-02	-.196-03	-.487-02	.122-04	-.298-01	.240-03
.40	.321-01	.164-02	-.286-03	-.584-02	.175-04	-.307-01	.255-03
.50	.408-01	.209-02	-.385-03	-.680-02	.234-04	-.314-01	.267-03
.70	.578-01	.298-02	-.595-03	-.865-02	.359-04	-.326-01	.287-03
1.00	.799-01	.419-02	-.896-03	-.111-01	.542-04	-.241-01	.312-03

TABLE 2.3.08

Z=88

DC ICC E3, F2

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(F3)	C2(F3)
K - SHELL							
.30	.572-01	.939-02	-.225-02	-.758-02	.134-03	-.387-01	.375-03
.40	.749-01	.963-02	-.231-02	-.976-02	.139-03	-.391-01	.382-03
.50	.886-01	.969-02	-.234-02	-.115-01	.141-03	-.394-01	.389-03
.70	.107+00	.958-02	-.233-02	-.106-01	.141-03	-.399-01	.401-03
1.00	.122+00	.924-02	-.227-02	-.158-01	.139-03	-.407-01	.419-03
L1 - SUBSHELL							
.05	.856-01	.234-02	-.556-03	-.109-01	.331-04	-.418-01	.437-03
.10	.131-00	.477-02	-.114-02	-.154-01	.677-04	-.420-01	.440-03
.15	.172-00	.762-02	-.182-02	-.204-01	.108-03	-.421-01	.444-03
.20	.203-00	.103-01	-.246-02	-.242-01	.167-03	-.423-01	.447-03
.30	.231-00	.139-01	-.333-02	-.279-01	.200-03	-.426-01	.455-03
.40	.231-00	.152-01	-.366-02	-.282-01	.221-03	-.430-01	.462-03
.50	.223-00	.154-01	-.372-02	-.275-01	.225-03	-.433-01	.469-03
.70	.207-00	.147-01	-.358-02	-.256-01	.218-03	-.439-01	.482-03
1.00	.192-00	.133-01	-.332-02	-.244-01	.205-03	-.447-01	.502-03
L2 - SUBSHELL							
.05	.363-01	.329-03	-.862-04	-.475-02	.564-05	-.776-02	.151-04
.10	.406-01	.414-03	-.109-03	-.533-02	.712-05	-.864-02	.187-04
.15	.443-01	.494-03	-.130-03	-.582-02	.853-05	-.941-02	.222-04
.20	.478-01	.573-03	-.151-03	-.627-02	.991-05	-.101-01	.257-04
.30	.535-01	.726-03	-.192-03	-.706-02	.126-04	-.114-01	.326-04
.40	.587-01	.878-03	-.233-03	-.773-02	.154-04	-.125-01	.395-04
.50	.634-01	.103-02	-.274-03	-.843-02	.182-04	-.136-01	.465-04
.70	.719-01	.133-02	-.357-03	-.963-02	.239-04	-.156-01	.608-04
1.00	.830-01	.179-02	-.484-03	-.112-01	.327-04	-.182-01	.831-04
L3 - SUBSHELL							
.05	-.322-01	.435-03	.423-05	-.244-03	.150-07	-.280-01	.196-03
.10	-.368-01	.598-03	.559-05	-.282-03	.201-07	-.284-01	.201-03
.15	-.407-01	.769-03	.689-05	-.315-03	.251-07	-.288-01	.207-03
.20	-.440-01	.944-03	.811-05	-.343-03	.301-07	-.291-01	.213-03
.30	-.494-01	.132-02	.103-04	-.393-03	.398-07	-.299-01	.224-03
.40	-.535-01	.170-02	.121-04	-.435-03	.496-07	-.305-01	.235-03
.50	-.565-01	.210-02	.133-04	-.472-03	.593-07	-.312-01	.247-03
.70	-.600-01	.291-02	.140-04	-.533-03	.799-07	-.323-01	.270-03
1.00	-.608-01	.404-02	.102-04	-.605-03	.118-06	-.343-01	.305-03
TOTAL L - SHELL							
.05	.145-02	.394-03	-.423-04	-.247-02	.290-05	-.292-01	.218-03
.10	.751-02	.559-03	-.727-04	-.323-02	.484-05	-.308-01	.247-03
.15	.127-01	.748-03	-.109-03	-.390-02	.712-05	-.320-01	.270-03
.20	.179-01	.958-03	-.151-03	-.454-02	.978-05	-.329-01	.288-03
.30	.281-01	.143-02	-.252-03	-.579-02	.161-04	-.343-01	.317-03
.40	.385-01	.196-02	-.372-03	-.701-02	.235-04	-.354-01	.338-03
.50	.488-01	.252-02	-.503-03	-.819-02	.317-04	-.363-01	.355-03
.70	.685-01	.366-02	-.781-03	-.105-01	.492-04	-.377-01	.382-03
1.00	.939-01	.519-02	-.118-02	-.134-01	.745-04	-.394-01	.414-03

TABLE 2.3.08 (CONTINUED)

Z=68

DC FCC E3, M3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M1 - SUBSHELL							
.02	.190-00	.905-02	-.215-02	-.225-01	.128-03	-.423-01	.448-03
.05	.151-00	.603-02	-.143-02	-.178-01	.854-04	-.424-01	.450-03
.10	.167-00	.721-02	-.172-02	-.197-01	.102-03	-.426-01	.453-03
.15	.191-00	.922-02	-.220-02	-.227-01	.132-03	-.428-01	.457-03
.20	.212-00	.112-01	-.268-02	-.253-01	.160-03	-.429-01	.461-03
.30	.232-00	.140-01	-.336-02	-.281-01	.202-03	-.433-01	.468-03
.40	.234-00	.153-01	-.368-02	-.286-01	.222-03	-.436-01	.475-03
.50	.229-00	.156-01	-.376-02	-.292-01	.228-03	-.439-01	.482-03
.70	.215-00	.151-01	-.368-02	-.268-01	.225-03	-.445-01	.496-03
1.00	.200-00	.140-01	-.345-02	-.254-01	.213-03	-.454-01	.516-03
M2 - SUBSHELL							
.02	.428-01	.457-03	-.120-03	-.558-02	.732-05	-.100-01	.251-04
.05	.439-01	.482-03	-.126-03	-.575-02	.826-05	-.990-02	.246-04
.10	.460-01	.548-03	-.144-03	-.614-02	.943-05	-.103-01	.266-04
.15	.497-01	.621-03	-.163-03	-.654-02	.107-04	-.108-01	.294-04
.20	.526-01	.696-03	-.183-03	-.692-02	.120-04	-.114-01	.325-04
.30	.578-01	.846-03	-.224-03	-.764-02	.148-04	-.125-01	.390-04
.40	.627-01	.998-03	-.264-03	-.831-02	.175-04	-.135-01	.458-04
.50	.671-01	.115-02	-.306-03	-.893-02	.203-04	-.145-01	.528-04
.70	.753-01	.146-02	-.390-03	-.101-01	.261-04	-.164-01	.672-04
1.00	.861-01	.192-02	-.520-03	-.117-01	.351-04	-.189-01	.898-04
M3 - SUBSHELL							
.02	-.368-01	.553-03	.555-05	-.280-03	.198-07	-.281-01	.197-03
.05	-.384-01	.629-03	.611-05	-.295-03	.220-07	-.203-01	.201-03
.10	-.419-01	.785-03	.733-05	-.325-03	.267-07	-.287-01	.207-03
.15	-.452-01	.958-03	.858-05	-.354-03	.317-07	-.291-01	.212-03
.20	-.482-01	.114-02	.979-05	-.380-03	.367-07	-.295-01	.218-03
.30	-.530-01	.153-02	.119-04	-.427-03	.468-07	-.302-01	.230-03
.40	-.568-01	.193-02	.137-04	-.468-03	.569-07	-.309-01	.241-03
.50	-.595-01	.235-02	.148-04	-.504-03	.671-07	-.316-01	.253-03
.70	-.627-01	.310-02	.153-04	-.564-03	.887-07	-.329-01	.276-03
1.00	-.631-01	.434-02	.110-04	-.636-03	.129-06	-.347-01	.312-03

TABLE 2.3.06 (CONTINUED)

Z=88

DC DEC L3, 1

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(E3)	C2(E3)
M - SUBSHELL							
.02	.658-01	.111-02	-.114-04	-.337-03	.293-07	-.466-02	.565-05
.05	.722-01	.140-02	-.147-04	-.380-03	.365-07	-.532-02	.715-05
.10	.805-01	.187-02	-.203-04	-.442-03	.552-07	-.625-02	.990-05
.15	.868-01	.233-02	-.262-04	-.497-03	.737-07	-.705-02	.177-04
.20	.917-01	.278-02	-.323-04	-.548-03	.941-07	-.774-02	.155-04
.30	.984-01	.366-02	-.452-04	-.670-03	.141-06	-.910-02	.214-04
.40	.102-00	.449-02	-.589-04	-.721-03	.190-06	-.103-01	.277-04
.50	.104-00	.527-02	-.731-04	-.795-03	.239-06	-.114-01	.343-04
.70	.103-00	.666-02	-.103-03	-.923-03	.410-06	-.135-01	.424-04
1.00	.956-01	.836-02	-.148-03	-.108-02	.719-06	-.163-01	.716-04

M5 - SUBSHELL

.02	-.315-01	.318-03	.928-04	-.420-02	.646-05	-.423-01	.751-03
.05	-.342-01	.458-03	.120-03	-.757-02	.782-05	-.726-01	.401-04
.10	-.379-01	.585-03	.154-03	-.506-02	.797-05	-.752-01	.477-03
.15	-.409-01	.708-03	.185-03	-.548-02	.120-04	-.437-01	.492-05
.20	-.435-01	.827-03	.216-03	-.582-02	.141-04	-.442-01	.507-07
.30	-.475-01	.106-02	.275-03	-.637-02	.179-04	-.450-01	.537-02
.40	-.504-01	.127-02	.330-05	-.677-02	.215-04	-.455-01	.564-03
.50	-.525-01	.140-02	.380-03	-.703-02	.247-04	-.460-01	.589-03
.70	-.535-01	.175-02	.401-03	-.721-02	.295-04	-.460-01	.620-03
1.00	-.505-01	.200-02	.530-03	-.684-02	.342-04	-.464-01	.604-03

TOTAL M - SHELL

.02	.231-02	.556-03	-.270-04	-.283-02	.398-05	-.293-01	.221-02
.05	.515-02	.626-03	-.519-04	-.318-02	.488-05	-.302-01	.236-02
.10	.101-01	.735-03	-.896-04	-.379-02	.681-05	-.314-01	.259-03
.15	.150-01	.974-03	-.130-03	-.440-02	.915-05	-.324-01	.275-03
.20	.200-01	.110-02	-.175-03	-.501-02	.119-04	-.332-01	.294-03
.30	.302-01	.165-02	-.279-03	-.621-02	.182-04	-.345-01	.321-03
.40	.405-01	.217-02	-.398-03	-.740-02	.256-04	-.355-01	.341-03
.50	.506-01	.272-02	-.527-03	-.855-02	.336-04	-.364-01	.358-03
.70	.700-01	.382-02	-.798-03	-.108-01	.506-04	-.378-01	.366-03
1.00	.950-01	.520-02	-.119-02	-.126-01	.754-04	-.390-01	.419-03

TABLE 2.3.09

Z=92

OC ICC t3,t3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
K - SHELL							
.30	.933-01	.133-01	-.333-02	-.125-01	.208-03	-.443-01	.492-03
.40	.110+00	.133-01	-.333-02	-.147-01	.209-03	-.447-01	.500-03
.50	.123+00	.131-01	-.330-02	-.163-01	.208-03	-.451-01	.509-03
.70	.159-00	.126-01	-.320-02	-.185-01	.203-03	-.457-01	.525-03
1.00	.151-00	.119-01	-.306-02	-.207-01	.197-03	-.467-01	.549-03
L1 - SUBSHELL							
.05	.984-01	.304-02	-.757-03	-.120-01	.471-04	-.483-01	.582-03
.10	.142-00	.503-02	-.141-02	-.175-01	.882-04	-.484-01	.587-03
.15	.181-00	.860-02	-.215-02	-.225-01	.134-03	-.486-01	.591-03
.20	.212-00	.114-01	-.284-02	-.265-01	.178-03	-.488-01	.596-03
.30	.247-00	.154-01	-.387-02	-.311-01	.243-03	-.492-01	.605-03
.40	.250-00	.174-01	-.439-02	-.325-01	.277-03	-.496-01	.614-03
.50	.254-00	.181-01	-.459-02	-.325-01	.290-03	-.499-01	.623-03
.70	.242-00	.120-01	-.458-02	-.314-01	.292-03	-.506-01	.641-03
1.00	.227-00	.169-01	-.435-02	-.299-01	.280-03	-.516-01	.667-03
L2 - SUBSHELL							
.05	.442-01	.480-03	-.133-03	-.603-02	.909-05	-.987-02	.244-04
.10	.490-01	.600-03	-.164-03	-.670-02	.112-04	-.109-01	.297-04
.15	.530-01	.707-03	-.194-03	-.727-02	.133-04	-.110-01	.347-04
.20	.567-01	.809-03	-.222-03	-.776-02	.152-04	-.125-01	.397-04
.30	.632-01	.101-02	-.278-03	-.870-02	.191-04	-.140-01	.494-04
.40	.689-01	.121-02	-.333-03	-.952-02	.230-04	-.153-01	.541-04
.50	.741-01	.140-02	-.388-03	-.103-01	.269-04	-.166-01	.688-04
.70	.834-01	.179-02	-.498-03	-.116-01	.347-04	-.188-01	.986-04
1.00	.956-01	.236-02	-.666-03	-.135-01	.469-04	-.218-01	.119-03
L3 - SUBSHELL							
.05	-.390-01	.632-03	.622-05	-.296-03	.221-07	-.317-01	.251-03
.10	-.441-01	.854-03	.608-05	-.339-03	.290-07	-.322-01	.279-03
.15	-.485-01	.100-02	.984-05	-.376-03	.358-07	-.326-01	.266-03
.20	-.522-01	.132-02	.115-04	-.408-03	.425-07	-.330-01	.273-03
.30	-.583-01	.182-02	.144-04	-.464-03	.555-07	-.338-01	.280-03
.40	-.623-01	.234-02	.167-04	-.512-03	.603-07	-.346-01	.302-03
.50	-.662-01	.287-02	.183-04	-.553-03	.811-07	-.354-01	.317-03
.70	-.700-01	.393-02	.191-04	-.623-05	.108-06	-.369-01	.346-03
1.00	-.708-01	.541-02	.139-04	-.704-03	.157-06	-.389-01	.391-03
TOTAL L - SHELL							
.05	.234-02	.570-03	-.651-04	-.315-02	.465-05	-.331-01	.279-03
.10	.104-01	.785-03	-.109-03	-.413-02	.756-05	-.349-01	.317-03
.15	.170-01	.105-02	-.139-03	-.496-02	.109-04	-.364-01	.349-03
.20	.232-01	.129-02	-.216-03	-.575-02	.146-04	-.376-01	.375-03
.30	.355-01	.188-02	-.349-03	-.726-02	.233-04	-.393-01	.414-03
.40	.476-01	.253-02	-.504-03	-.872-02	.334-04	-.406-01	.443-03
.50	.595-01	.320-02	-.672-03	-.101-01	.444-04	-.416-01	.466-03
.70	.817-01	.457-02	-.102-02	-.128-01	.676-04	-.433-01	.507-03
1.00	.110+00	.642-02	-.153-02	-.162-01	.101-03	-.452-01	.545-03

TABLE 2.3.09 (CONTINUED)

Z=92

DC ICC E5, E3

K	A1(E5)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(E3)	C2(E3)
M1 - SUBSHELL							
.02	.223-00	.125-01	-.310-02	-.278-01	.193-03	-.489-01	.399-03
.05	.176-00	.805-02	-.200-02	-.217-01	.125-03	-.490-01	.601-03
.10	.185-00	.885-02	-.221-02	-.229-01	.138-03	-.492-01	.606-03
.15	.206-00	.108-01	-.269-02	-.256-01	.168-03	-.494-01	.611-03
.20	.225-00	.127-01	-.318-02	-.282-01	.199-03	-.496-01	.615-03
.30	.250-00	.158-01	-.396-02	-.315-01	.249-03	-.500-01	.625-03
.40	.258-00	.175-01	-.442-02	-.328-01	.272-03	-.504-01	.634-03
.50	.258-00	.183-01	-.462-02	-.330-01	.293-03	-.507-01	.643-03
.70	.279-00	.184-01	-.468-02	-.323-01	.298-03	-.514-01	.661-03
1.00	.235-00	.175-01	-.450-02	-.310-01	.291-03	-.524-01	.687-03

M2 - SUBSHELL

.02	.529-01	.699-03	-.191-03	-.722-02	.130-04	-.129-01	.419-04
.05	.529-01	.725-03	-.198-03	-.736-02	.135-04	-.127-01	.406-04
.10	.568-01	.808-03	-.221-03	-.777-02	.151-04	-.131-01	.430-04
.15	.600-01	.901-03	-.247-03	-.822-02	.169-04	-.137-01	.466-04
.20	.630-01	.997-03	-.274-03	-.865-02	.188-04	-.143-01	.510-04
.30	.687-01	.119-02	-.328-03	-.947-02	.226-04	-.155-01	.600-04
.40	.739-01	.138-02	-.383-03	-.102-01	.264-04	-.166-01	.694-04
.50	.788-01	.158-02	-.438-03	-.109-01	.304-04	-.177-01	.790-04
.70	.876-01	.197-02	-.549-03	-.123-01	.383-04	-.198-01	.988-04
1.00	.994-01	.255-02	-.719-03	-.140-01	.507-04	-.227-01	.129-03

M3 - SUBSHELL

.02	-.452-01	.838-03	.844-05	-.345-03	.301-07	-.319-01	.255-03
.05	-.468-01	.929-03	.915-05	-.361-03	.329-07	-.322-01	.259-03
.10	-.506-01	.114-02	.108-04	-.394-03	.392-07	-.326-01	.266-03
.15	-.542-01	.137-02	.124-04	-.426-03	.458-07	-.331-01	.274-03
.20	-.574-01	.161-02	.140-04	-.455-03	.525-07	-.335-01	.281-03
.30	-.629-01	.213-02	.169-04	-.508-03	.659-07	-.343-01	.295-03
.40	-.670-01	.267-02	.191-04	-.553-03	.792-07	-.351-01	.310-03
.50	-.700-01	.322-02	.206-04	-.594-03	.925-07	-.359-01	.325-03
.70	-.734-01	.432-02	.210-04	-.662-03	.121-06	-.373-01	.354-03
1.00	-.737-01	.585-02	.150-04	-.743-03	.173-06	-.394-01	.400-03

TABLE 2.3.09 (CONTINUED)

Z=92

DC ICC E3, A3

K	A1(E2)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(A3)	C2(A3)
M4 - SUBSHELL							
.02	.800-01	.165-02	-.171-04	-.416-03	.443-07	-.578-02	.859-01
.05	.873-01	.204-02	-.217-04	-.465-03	.575-07	-.654-02	.106-04
.10	.968-01	.268-02	-.295-04	-.538-03	.311-07	-.760-02	.146-04
.15	.104+00	.330-02	-.376-04	-.602-03	.107-06	-.852-02	.185-04
.20	.110+00	.391-02	-.460-04	-.662-03	.136-06	-.935-02	.224-04
.30	.117+00	.509-02	-.658-04	-.770-03	.201-06	-.109-01	.304-04
.40	.121+00	.620-02	-.824-04	-.866-03	.277-06	-.122-01	.389-04
.50	.123+00	.723-02	-.102-03	-.952-03	.364-06	-.135-01	.477-04
.70	.121+00	.906-02	-.141-03	-.110-02	.569-06	-.159-01	.665-04
1.00	.112+00	.115-01	-.201-03	-.128-02	.965-06	-.190-01	.973-04

M5 - SUBSHELL

.02	-.394-01	.581-03	.158-02	-.548-02	.108-04	-.490-01	.604-03
.05	-.425-01	.691-03	.188-03	-.592-02	.128-04	-.494-01	.617-03
.10	-.468-01	.866-03	.236-03	-.652-02	.161-04	-.500-01	.638-03
.15	-.503-01	.103-02	.281-03	-.701-02	.192-04	-.507-01	.659-03
.20	-.534-01	.120-02	.326-03	-.744-02	.222-04	-.512-01	.679-03
.30	-.581-01	.151-02	.410-03	-.811-02	.278-04	-.523-01	.719-03
.40	-.615-01	.180-02	.487-03	-.859-02	.331-04	-.531-01	.757-03
.50	-.638-01	.206-02	.558-03	-.891-02	.378-04	-.537-01	.791-03
.70	-.655-01	.249-02	.673-03	-.917-02	.458-04	-.541-01	.850-03
1.00	-.623-01	.287-02	.771-03	-.876-02	.520-04	-.528-01	.903-03

TOTAL M - SHELL

.02	.374-02	.835-03	-.425-04	-.375-02	.679-05	-.334-01	.287-03
.05	.759-02	.924-03	-.606-04	-.417-02	.811-05	-.343-01	.307-03
.10	.139-01	.113-02	-.136-03	-.491-02	.109-04	-.358-01	.336-03
.15	.201-01	.136-02	-.193-03	-.566-02	.143-04	-.369-01	.362-03
.20	.262-01	.163-02	-.255-03	-.639-02	.181-04	-.379-01	.385-03
.30	.363-01	.221-02	-.392-03	-.784-02	.269-04	-.396-01	.421-03
.40	.503-01	.284-02	-.547-03	-.925-02	.368-04	-.408-01	.443-03
.50	.619-01	.350-02	-.713-03	-.106-01	.476-04	-.418-01	.471-03
.70	.836-01	.481-02	-.106-02	-.132-01	.701-04	-.435-01	.508-03
1.00	.111+00	.660-02	-.155-02	-.165-01	.103-03	-.455-01	.553-03

TABLE 2.3.10

Z=96

DC FCC E5,13

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
K - SHELL							
.30	.139-00	.183-01	-.478-02	-.190-01	.312-03	-.508-01	.545-01
.40	.153-00	.178-01	-.466-02	-.205-01	.305-03	-.512-01	.656-03
.50	.163-00	.172-01	-.455-02	-.224-01	.298-03	-.516-01	.667-03
.70	.175-00	.164-01	-.433-02	-.241-01	.287-03	-.524-01	.639-01
1.00	.183-00	.153-01	-.409-02	-.254-01	.274-03	-.535-01	.720-03
L1 - SUBSHELL							
.10	.159-00	.709-02	-.184-02	-.204-01	.120-03	-.567-01	.803-03
.15	.197-00	.102-01	-.267-02	-.255-01	.174-03	-.569-01	.809-03
.20	.228-00	.132-01	-.345-02	-.296-01	.225-03	-.571-01	.815-03
.30	.267-00	.178-01	-.466-02	-.350-01	.306-03	-.575-01	.827-03
.40	.282-00	.205-01	-.538-02	-.373-01	.354-03	-.579-01	.839-03
.50	.286-00	.217-01	-.575-02	-.380-01	.375-03	-.583-01	.851-03
.70	.280-00	.222-01	-.591-02	-.377-01	.393-03	-.591-01	.875-03
1.00	.266-00	.215-01	-.577-02	-.365-01	.388-03	-.603-01	.909-03
L2 - SUBSHELL							
.05	.544-01	.739-03	-.210-03	-.774-02	.150-04	-.127-01	.404-04
.10	.597-01	.892-03	-.234-03	-.851-02	.181-04	-.139-01	.481-04
.15	.643-01	.104-02	-.296-03	-.916-02	.211-04	-.149-01	.535-04
.20	.683-01	.117-02	-.336-03	-.978-02	.240-04	-.158-01	.627-04
.30	.756-01	.144-02	-.414-03	-.108-01	.297-04	-.175-01	.768-04
.40	.819-01	.170-02	-.490-03	-.118-01	.353-04	-.190-01	.907-04
.50	.877-01	.196-02	-.565-03	-.127-01	.408-04	-.204-01	.105-03
.70	.981-01	.246-02	-.715-03	-.143-01	.520-04	-.230-01	.132-03
1.00	.112+00	.321-02	-.942-03	-.164-01	.692-04	-.264-01	.175-03
L3 - SUBSHELL							
.05	-.214-01	.406-03	.234-05	-.136-03	.471-08	-.237-01	.140-03
.10	-.352-01	.539-03	.298-05	-.155-03	.508-08	-.240-01	.144-03
.15	-.584-01	.677-03	.359-05	-.170-03	.739-08	-.243-01	.148-03
.20	-.412-01	.819-03	.417-05	-.184-03	.867-08	-.246-01	.152-03
.30	-.457-01	.111-02	.516-05	-.208-03	.111-07	-.252-01	.160-03
.40	-.491-01	.142-02	.595-05	-.228-03	.135-07	-.258-01	.168-03
.50	-.516-01	.173-02	.643-05	-.246-03	.159-07	-.264-01	.175-03
.70	-.545-01	.235-02	.669-05	-.275-03	.207-07	-.275-01	.191-03
1.00	-.550-01	.322-02	.482-05	-.308-03	.297-07	-.290-01	.216-03
TOTAL L - SHELL							
.05	.113-01	.572-03	-.104-03	-.392-02	.745-05	-.237-01	.140-03
.10	.217-01	.837-03	-.171-03	-.521-02	.121-04	-.295-01	.257-03
.15	.298-01	.112-02	-.242-03	-.626-02	.170-04	-.325-01	.317-03
.20	.372-01	.144-02	-.322-03	-.723-02	.224-04	-.350-01	.368-03
.30	.515-01	.214-02	-.504-03	-.905-02	.349-04	-.389-01	.448-03
.40	.651-01	.292-02	-.705-03	-.109-01	.489-04	-.418-01	.508-03
.50	.781-01	.374-02	-.928-03	-.125-01	.639-04	-.440-01	.555-03
.70	.102+00	.541-02	-.139-02	-.157-01	.953-04	-.473-01	.624-03
1.00	.133-00	.772-02	-.203-02	-.197-01	.141-03	-.507-01	.700-03

TABLE 2.3.10 (CONTINUED)

Z=96

DC ICC E3, M3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M1 - SUBSHELL							
.02	.259-00	.169-01	-.439-02	-.337-01	.205-03	-.567-01	.804-03
.05	.205-00	.108-01	-.281-02	-.265-01	.183-03	-.560-01	.808-03
.10	.207-00	.111-01	-.289-02	-.268-01	.188-03	-.570-01	.813-03
.15	.225-00	.129-01	-.336-02	-.292-01	.219-03	-.572-01	.819-03
.20	.243-00	.148-01	-.388-02	-.317-01	.253-03	-.575-01	.825-03
.30	.269-00	.181-01	-.475-02	-.353-01	.312-03	-.579-01	.837-03
.40	.281-00	.203-01	-.533-02	-.372-01	.351-03	-.583-01	.849-03
.50	.286-00	.214-01	-.566-02	-.380-01	.374-03	-.587-01	.861-03
.70	.282-00	.221-01	-.588-02	-.381-01	.392-03	-.595-01	.864-03
1.00	.271-00	.217-01	-.582-02	-.371-01	.392-03	-.606-01	.919-03
M2 - SUBSHELL							
.02	.655-01	.107-02	-.305-03	-.931-02	.217-04	-.167-01	.696-04
.05	.662-01	.110-02	-.312-03	-.942-02	.222-04	-.163-01	.669-04
.10	.692-01	.120-02	-.341-03	-.986-02	.243-04	-.167-01	.696-04
.15	.725-01	.132-02	-.376-03	-.103-01	.268-04	-.172-01	.745-04
.20	.757-01	.144-02	-.411-03	-.108-01	.294-04	-.179-01	.803-04
.30	.819-01	.169-02	-.484-03	-.117-01	.347-04	-.192-01	.927-04
.40	.875-01	.194-02	-.557-03	-.126-01	.401-04	-.205-01	.106-03
.50	.928-01	.218-02	-.631-03	-.134-01	.455-04	-.218-01	.114-03
.70	.102+00	.268-02	-.778-03	-.149-01	.565-04	-.241-01	.146-03
1.00	.115+00	.341-02	-.100-02	-.169-01	.735-04	-.273-01	.188-03
M3 - SUBSHELL							
.02	-.556-01	.126-02	.129-04	-.428-03	.463-07	-.363-01	.330-03
.05	-.572-01	.138-02	.138-04	-.444-03	.499-07	-.366-01	.335-03
.10	-.612-01	.166-02	.160-04	-.480-03	.583-07	-.371-01	.344-03
.15	-.652-01	.198-02	.183-04	-.516-03	.673-07	-.376-01	.354-03
.20	-.687-01	.231-02	.204-04	-.549-03	.764-07	-.381-01	.363-03
.30	-.748-01	.301-02	.242-04	-.606-03	.943-07	-.390-01	.381-03
.40	-.794-01	.373-02	.272-04	-.660-03	.112-06	-.399-01	.400-03
.50	-.827-01	.447-02	.291-04	-.705-03	.130-06	-.408-01	.419-03
.70	-.864-01	.593-02	.293-04	-.783-03	.167-06	-.425-01	.457-03
1.00	-.865-01	.796-02	.207-04	-.875-03	.237-06	-.449-01	.516-03

TABLE 2.3.10 (CONTINUED)

Z=96

DC ICC E3, N3

K	A1(E3)	A2(E3)	A3(E3)	A4(E3)	A5(E3)	C1(M3)	C2(M3)
M4 - SUBSHELL							
.02	.976-01	.244-02	-.258-04	-.516-03	.680-07	-.718-02	.129-04
.05	.106+00	.299-02	-.322-04	-.574-03	.870-07	-.804-02	.163-04
.10	.117+00	.387-02	-.432-04	-.659-03	.121-06	-.925-02	.216-04
.15	.125-00	.472-02	-.546-04	-.736-03	.158-06	-.103-01	.269-04
.20	.131-00	.555-02	-.664-04	-.807-03	.199-06	-.113-01	.323-04
.30	.140-00	.715-02	-.910-04	-.935-03	.292-06	-.130-01	.433-04
.40	.144-00	.864-02	-.117-03	-.105-02	.399-06	-.146-01	.548-04
.50	.146-00	.100-01	-.143-03	-.115-02	.521-06	-.160-01	.667-04
.70	.143-00	.124-01	-.197-03	-.132-02	.804-06	-.187-01	.918-04
1.00	.132-00	.153-01	-.278-03	-.152-02	.134-05	-.223-01	.133-03
M5 - SUBSHELL							
.02	-.496-01	.897-03	.255-03	-.717-02	.181-04	-.569-01	.813-03
.05	-.531-01	.105-02	.298-03	-.768-02	.212-04	-.573-01	.829-03
.10	-.581-01	.129-02	.366-03	-.840-02	.260-04	-.581-01	.857-03
.15	-.622-01	.152-02	.431-03	-.900-02	.306-04	-.588-01	.895-03
.20	-.657-01	.175-02	.494-03	-.951-02	.351-04	-.595-01	.913-03
.30	-.712-01	.217-02	.614-03	-.103-01	.434-04	-.608-01	.966-03
.40	-.753-01	.256-02	.724-03	-.109-01	.512-04	-.619-01	.102-02
.50	-.780-01	.292-02	.823-03	-.113-01	.581-04	-.627-01	.107-02
.70	-.803-01	.351-02	.966-03	-.117-01	.694-04	-.636-01	.115-02
1.00	-.770-01	.403-02	.113-02	-.112-01	.791-04	-.628-01	.123-02
TOTAL M - SHELL							
.02	.562-02	.126-02	-.671-04	-.497-02	.116-04	-.381-01	.374-03
.05	.110-01	.157-02	-.126-03	-.549-02	.136-04	-.392-01	.400-03
.10	.190-01	.163-02	-.208-03	-.638-02	.177-04	-.408-01	.439-03
.15	.267-01	.193-02	-.288-03	-.729-02	.225-04	-.423-01	.474-03
.20	.341-01	.226-02	-.373-03	-.817-02	.279-04	-.435-01	.505-03
.30	.485-01	.298-02	-.556-03	-.990-02	.400-04	-.454-01	.554-03
.40	.623-01	.375-02	-.761-03	-.116-01	.536-04	-.469-01	.592-03
.50	.755-01	.455-02	-.973-03	-.132-01	.679-04	-.481-01	.623-03
.70	.997-01	.612-02	-.141-02	-.161-01	.977-04	-.501-01	.673-03
1.00	.130-00	.825-02	-.203-02	-.199-01	.141-03	-.524-01	.732-03

TABLE 2.4

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DYNAMIC CORRECTION COEFFICIENTS

FOR CONVERSION COEFFICIENTS OF

E4 AND I4

TRANSITIONALS

TABLE 2.4.01

Z=60

DC 100 E4.100

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(104)	C2(104)
K - SHELL							
.10	-.109-01	.234-03	-.606-04	.130-02	.392-05	-.132-01	.436-04
.15	-.100-01	.282-03	-.731-04	.118-02	.474-05	-.132-01	.439-04
.20	-.888-02	.329-03	-.855-04	.102-02	.554-05	-.133-01	.442-04
.30	-.583-02	.414-03	-.108-03	.595-03	.702-05	-.133-01	.448-04
.40	-.226-02	.490-03	-.128-03	.107-02	.836-05	-.134-01	.452-04
.50	.152-02	.554-03	-.145-03	-.407-03	.950-05	-.134-01	.457-04
.70	.874-02	.650-03	-.171-03	-.138-02	.113-04	-.134-01	.464-04
1.00	.175-01	.731-03	-.194-03	-.286-02	.129-04	-.135-01	.475-04
L1 - SUBSHELL							
.02	.112-01	.521-04	-.135-04	-.142-02	.873-06	-.138-01	.474-04
.05	.272-01	.186-03	-.481-04	-.295-02	.311-05	-.138-01	.476-04
.10	.567-01	.832-03	-.216-03	-.731-02	.140-04	-.139-01	.480-04
.15	.805-01	.180-02	-.467-02	-.106-01	.304-04	-.139-01	.484-04
.20	.670-01	.207-02	-.524-03	-.895-02	.341-04	-.140-01	.487-04
.30	.383-01	.160-02	-.418-03	-.529-02	.272-04	-.140-01	.494-04
.40	.292-01	.135-02	-.354-03	-.411-02	.232-04	-.141-01	.500-04
.50	.268-01	.123-02	-.324-03	-.381-02	.212-04	-.142-01	.505-04
.70	.274-01	.113-02	-.297-03	-.391-02	.196-04	-.142-01	.514-04
1.00	.309-01	.106-02	-.282-03	-.442-02	.188-04	-.143-01	.527-04
L2 - SUBSHELL							
.02	.433-02	.469-05	-.134-05	-.618-03	.954-07	-.920-03	.213-06
.05	.516-02	.666-05	-.190-05	-.756-03	.136-06	-.108-02	.295-06
.10	.620-02	.994-05	-.204-05	-.898-03	.203-06	-.131-02	.433-06
.15	.726-02	.133-04	-.381-05	-.104-02	.273-06	-.152-02	.577-06
.20	.815-02	.168-04	-.482-05	-.117-02	.346-06	-.170-02	.726-06
.30	.975-02	.243-04	-.697-05	-.140-02	.501-06	-.264-02	.105-05
.40	.112-01	.322-04	-.928-05	-.162-02	.668-06	-.231-02	.179-05
.50	.126-01	.406-04	-.117-04	-.182-02	.847-06	-.265-02	.176-05
.70	.151-01	.588-04	-.171-04	-.219-02	.124-05	-.319-02	.256-05
1.00	.184-01	.888-04	-.259-04	-.270-02	.190-05	-.395-02	.393-05
L3 - SUBSHELL							
.02	-.567-02	.130-04	-.779-06	.156-03	.118-07	-.906-02	.205-04
.05	-.687-02	.198-04	-.119-05	.109-03	.180-07	-.913-02	.208-04
.10	-.852-02	.321-04	-.193-05	.234-03	.295-07	-.922-02	.213-04
.15	-.990-02	.458-04	-.278-05	.271-03	.425-07	-.931-02	.218-04
.20	-.111-01	.609-04	-.371-05	.303-03	.572-07	-.940-02	.222-04
.30	-.131-01	.955-04	-.588-05	.355-03	.916-07	-.954-02	.232-04
.40	-.146-01	.135-03	-.839-05	.393-03	.132-06	-.972-02	.241-04
.50	-.158-01	.178-03	-.112-04	.417-03	.178-06	-.987-02	.250-04
.70	-.169-01	.273-03	-.175-04	.432-03	.284-06	-.102-01	.266-04
1.00	-.165-01	.419-03	-.276-04	.368-03	.464-06	-.106-01	.296-04
TOTAL L - SHELL							
.02	-.193-02	.100-04	-.101-05	-.134-03	.442-07	-.912-02	.209-04
.05	-.156-02	.152-04	-.179-05	-.225-03	.877-07	-.943-02	.228-04
.10	-.124-02	.264-04	-.260-05	-.336-03	.191-06	-.979-02	.254-04
.15	-.829-03	.403-04	-.610-05	-.445-03	.340-06	-.101-01	.275-04
.20	-.315-01	.570-04	-.935-05	-.553-03	.538-06	-.103-01	.293-04
.30	.101-02	.981-04	-.180-04	-.777-03	.108-05	-.107-01	.321-04
.40	.273-02	.148-03	-.293-06	-.102-02	.180-05	-.111-01	.344-04
.50	.478-02	.204-03	-.427-04	-.129-02	.286-05	-.114-01	.363-04
.70	.951-02	.325-03	-.728-04	-.161-02	.465-05	-.119-01	.394-04
1.00	.169-01	.491-03	-.117-03	-.279-02	.766-05	-.124-01	.430-04

TABLE 2.4.02

Z-6'

DC 100 E4,14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
K - SHELL							
.15	-.101-01	.444-03	-.123-03	.124-02	.851-05	-.153-01	.580-04
.20	-.816-04	.508-03	-.141-03	.960-03	.975-05	-.154-01	.591-04
.30	-.375-02	.622-03	-.173-03	.317-05	.120-04	-.154-01	.599-04
.40	.104-02	.716-03	-.200-03	-.375-05	.139-04	-.155-01	.605-04
.50	.579-02	.793-03	-.221-03	-.106-02	.155-04	-.155-01	.612-04
.70	.143-01	.898-03	-.252-03	-.229-02	.177-04	-.156-01	.623-04
1.00	.239-01	.577-03	-.276-03	-.370-02	.195-04	-.157-01	.639-04
L1 - SUBSHELL							
.05	.249-01	.213-03	-.590-04	-.338-02	.408-05	-.160-01	.643-04
.10	.584-01	.770-03	-.213-03	-.733-02	.145-04	-.161-01	.649-04
.15	.814-01	.167-02	-.465-03	-.115-01	.321-04	-.162-01	.654-04
.20	.866-01	.277-02	-.631-03	-.122-01	.438-04	-.162-01	.659-04
.30	.642-01	.224-02	-.623-03	-.923-02	.434-04	-.163-01	.660-04
.40	.501-01	.198-02	-.547-03	-.732-02	.382-04	-.164-01	.677-04
.50	.442-01	.178-02	-.497-03	-.652-02	.348-04	-.165-01	.684-04
.70	.412-01	.158-02	-.464-03	-.613-02	.313-04	-.165-01	.690-04
1.00	.422-01	.144-02	-.458-03	-.633-02	.290-04	-.168-01	.717-04
L2 - SUBSHELL							
.02	.537-02	.720-05	-.215-05	-.814-03	.160-06	-.122-02	.572-05
.05	.629-02	.990-05	-.301-05	-.955-03	.228-06	-.141-02	.499-06
.10	.755-02	.143-04	-.435-05	-.115-02	.331-06	-.168-02	.710-06
.15	.863-02	.198-04	-.572-05	-.131-02	.435-06	-.192-02	.915-06
.20	.902-02	.234-04	-.713-05	-.147-02	.543-06	-.211-02	.113-05
.30	.114-01	.331-04	-.101-04	-.174-02	.771-06	-.254-02	.164-05
.40	.130-01	.433-04	-.133-04	-.199-02	.101-05	-.290-02	.211-05
.50	.145-01	.540-04	-.166-04	-.225-02	.127-05	-.325-02	.252-05
.70	.173-01	.769-04	-.257-04	-.267-02	.182-05	-.389-02	.380-05
1.00	.210-01	.114-03	-.355-04	-.326-02	.270-05	-.477-02	.575-05
L3 - SUBSHELL							
.02	-.092-02	.194-04	-.125-05	.205-03	.202-07	-.103-01	.267-04
.05	-.827-02	.287-04	-.185-05	.245-03	.300-07	-.104-01	.271-04
.10	-.101-01	.452-04	-.292-05	.298-03	.417-07	-.105-01	.278-04
.15	-.116-01	.634-04	-.412-05	.343-03	.677-07	-.106-01	.284-04
.20	-.130-01	.835-04	-.545-05	.381-03	.900-07	-.107-01	.290-04
.30	-.152-01	.129-03	-.850-05	.443-03	.142-06	-.109-01	.302-04
.40	-.168-01	.180-03	-.120-04	.486-03	.202-06	-.111-01	.314-04
.50	-.180-01	.236-03	-.159-04	.514-03	.270-06	-.113-01	.320-04
.70	-.191-01	.358-03	-.245-04	.528-03	.425-06	-.116-01	.350-04
1.00	-.185-01	.544-03	-.363-04	.469-03	.686-06	-.121-01	.387-04
TOTAL L - SHELL							
.02	-.255-02	.151-04	-.156-05	-.157-03	.720-07	-.103-01	.267-04
.05	-.177-02	.218-04	-.272-05	-.296-03	.142-06	-.107-01	.294-04
.10	-.121-02	.360-04	-.520-05	-.448-03	.264-06	-.112-01	.325-04
.15	-.596-03	.534-04	-.855-05	-.591-03	.507-06	-.115-01	.358-04
.20	.139-03	.740-04	-.128-04	-.736-03	.785-06	-.118-01	.382-04
.30	.192-02	.121-03	-.240-04	-.104-02	.153-05	-.123-01	.421-04
.40	.413-02	.185-03	-.366-04	-.136-02	.252-05	-.127-01	.453-04
.50	.666-02	.253-03	-.557-04	-.171-02	.370-05	-.131-01	.480-04
.70	.123-01	.359-03	-.846-04	-.246-02	.643-05	-.137-01	.524-04
1.00	.209-01	.604-03	-.153-03	-.339-02	.106-04	-.144-01	.574-04

TABLE 2.4.03

Z=68

DC ICC E4, E4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
K - SHELL							
.15	-.890-02	.701-03	-.206-03	.111-02	.152-04	-.177-01	.781-04
.20	-.600-02	.705-03	-.231-03	.663-03	.170-04	-.177-01	.787-04
.30	.169-03	.931-03	-.275-03	-.279-03	.203-04	-.178-01	.798-04
.40	.633-02	.104-02	-.308-03	-.122-02	.228-04	-.179-01	.808-04
.50	.121-01	.113-02	-.335-03	-.210-02	.248-04	-.180-01	.817-04
.70	.218-01	.123-02	-.368-03	-.358-02	.275-04	-.181-01	.834-04
1.00	.320-01	.130-02	-.390-03	-.516-02	.294-04	-.183-01	.857-04
L1 - SUBSHELL							
.05	.272-01	.256-03	-.752-04	-.394-02	.553-05	-.186-01	.869-04
.10	.527-01	.777-03	-.229-03	-.769-02	.168-04	-.187-01	.876-04
.15	.794-01	.158-02	-.467-03	-.117-01	.344-04	-.188-01	.883-04
.20	.941-01	.232-02	-.685-03	-.140-01	.506-04	-.189-01	.890-04
.30	.874-01	.278-02	-.821-03	-.132-01	.608-04	-.190-01	.903-04
.40	.734-01	.262-02	-.777-03	-.112-01	.576-04	-.191-01	.914-04
.50	.649-01	.242-02	-.719-03	-.998-02	.535-04	-.192-01	.925-04
.70	.579-01	.215-02	-.641-03	-.902-02	.480-04	-.194-01	.945-04
1.00	.558-01	.193-02	-.580-03	-.878-02	.437-04	-.196-01	.972-04
L2 - SUBSHELL							
.05	.768-02	.147-04	-.474-05	-.123-02	.331-06	-.183-02	.840-06
.10	.908-02	.207-04	-.566-05	-.146-02	.537-05	-.215-02	.116-05
.15	.103-01	.267-04	-.860-05	-.166-02	.693-06	-.243-02	.148-05
.20	.114-01	.328-04	-.105-04	-.184-02	.853-06	-.269-02	.181-05
.30	.134-01	.454-04	-.147-04	-.216-02	.119-05	-.316-02	.250-05
.40	.152-01	.536-04	-.190-04	-.246-02	.154-05	-.359-02	.323-05
.50	.168-01	.723-04	-.235-04	-.274-02	.191-05	-.399-02	.399-05
.70	.199-01	.101-03	-.331-04	-.325-02	.270-05	-.474-02	.563-05
1.00	.239-01	.148-03	-.488-04	-.394-02	.401-05	-.576-02	.834-05
L3 - SUBSHELL							
.05	-.991-02	.415-04	-.265-05	.315-03	.494-07	-.119-01	.352-04
.10	-.120-01	.638-04	-.440-05	.379-03	.767-07	-.120-01	.361-04
.15	-.137-01	.883-04	-.613-05	.433-03	.107-06	-.121-01	.369-04
.20	-.152-01	.115-03	-.801-05	.478-03	.141-06	-.122-01	.377-04
.30	-.176-01	.175-03	-.123-04	.550-03	.213-06	-.125-01	.393-04
.40	-.194-01	.242-03	-.172-04	.601-03	.308-06	-.127-01	.408-04
.50	-.206-01	.315-03	-.226-04	.631-03	.409-06	-.129-01	.424-04
.70	-.217-01	.472-03	-.344-04	.642-03	.636-06	-.133-01	.456-04
1.00	-.207-01	.711-03	-.532-04	.563-03	.101-05	-.139-01	.505-04
TOTAL L - SHELL							
.05	-.199-02	.311-04	-.414-05	-.390-03	.230-06	-.122-01	.379-04
.10	-.113-02	.494-04	-.757-05	-.591-03	.455-06	-.127-01	.425-04
.15	-.271-03	.714-04	-.121-04	-.778-03	.760-06	-.131-01	.464-04
.20	.729-03	.970-04	-.177-04	-.969-03	.113-05	-.135-01	.497-04
.30	.305-02	.159-03	-.324-04	-.136-02	.219-05	-.141-01	.552-04
.40	.580-02	.232-03	-.511-04	-.179-02	.354-05	-.146-01	.596-04
.50	.888-02	.314-03	-.730-04	-.223-02	.515-05	-.150-01	.633-04
.70	.156-01	.490-03	-.123-03	-.317-02	.886-05	-.158-01	.694-04
1.00	.254-01	.740-03	-.198-03	-.455-02	.146-04	-.166-01	.765-04

TABLE 2.4.06

Z=72

DC ICC EVAL

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
K - SHELL							
.15	-.355-02	.119-02	-.344-03	.606-03	.262-04	-.204-01	.104-02
.20	-.143-02	.121-02	-.378-03	-.566-04	.295-04	-.205-01	.105-03
.30	.676-02	.138-02	-.733-03	-.137-02	.239-04	-.206-01	.107-02
.40	.143-01	.151-02	-.473-03	-.258-02	.371-04	-.207-01	.108-03
.50	.210-01	.159-02	-.501-03	-.360-02	.394-04	-.208-01	.109-03
.70	.316-01	.169-02	-.533-03	-.537-02	.421-04	-.210-01	.112-03
1.00	.419-01	.172-02	-.548-03	-.706-02	.436-04	-.212-01	.115-03
L1 - SUBSHELL							
.05	.305-01	.318-03	-.991-04	-.468-02	.772-05	-.217-01	.118-03
.10	.542-01	.838-03	-.261-03	-.837-02	.204-04	-.218-01	.119-03
.15	.788-01	.159-02	-.496-03	-.123-01	.387-04	-.219-01	.119-03
.20	.967-01	.235-02	-.734-03	-.151-01	.574-04	-.219-01	.120-03
.30	.104+00	.317-02	-.993-03	-.165-01	.779-04	-.221-01	.122-03
.40	.950-01	.325-02	-.102-02	-.152-01	.804-04	-.222-01	.124-03
.50	.864-01	.312-02	-.983-03	-.135-01	.775-04	-.224-01	.125-03
.70	.767-01	.253-02	-.855-03	-.125-01	.709-04	-.225-01	.125-03
1.00	.715-01	.253-02	-.868-03	-.118-01	.645-04	-.226-01	.127-03
L2 - SUBSHELL							
.05	.939-02	.221-04	-.750-05	-.160-02	.637-06	-.237-02	.141-03
.10	.110-01	.301-04	-.102-04	-.106-02	.872-06	-.275-02	.189-03
.15	.123-01	.381-04	-.130-04	-.210-02	.111-05	-.308-02	.237-03
.20	.153-01	.462-04	-.158-04	-.231-02	.124-05	-.332-02	.266-03
.30	.157-01	.628-04	-.215-04	-.269-02	.183-05	-.393-02	.388-03
.40	.177-01	.800-04	-.274-04	-.304-02	.235-05	-.473-02	.493-03
.50	.196-01	.977-04	-.335-04	-.330-02	.288-05	-.490-02	.603-03
.70	.229-01	.135-03	-.463-04	-.396-02	.401-05	-.517-02	.817-03
1.00	.274-01	.194-03	-.674-04	-.477-02	.535-05	-.697-02	.122-04
L3 - SUBSHELL							
.05	-.119-01	.603-04	-.441-05	.405-03	.812-07	-.135-01	.458-04
.10	-.142-01	.906-04	-.663-05	.460-03	.123-06	-.137-01	.464-04
.15	-.161-01	.124-03	-.912-05	.544-03	.170-06	-.138-01	.479-04
.20	-.178-01	.159-03	-.118-04	.595-03	.221-06	-.140-01	.490-04
.30	-.204-01	.239-03	-.179-04	.682-03	.337-06	-.142-01	.511-04
.40	-.224-01	.328-03	-.247-04	.740-03	.470-06	-.145-01	.531-04
.50	-.237-01	.423-03	-.322-04	.773-03	.619-06	-.148-01	.552-04
.70	-.247-01	.628-03	-.486-04	.775-03	.931-06	-.152-01	.594-04
1.00	-.233-01	.937-03	-.743-04	.673-03	.150-05	-.159-01	.659-04
TOTAL L - SHELL							
.05	-.223-02	.469-04	-.634-05	-.512-03	.373-06	-.139-01	.489-04
.10	-.988-03	.634-04	-.111-04	-.777-03	.708-06	-.143-01	.550-04
.15	.197-03	.965-04	-.173-04	-.102-02	.115-05	-.150-01	.603-04
.20	.151-02	.128-03	-.248-04	-.127-02	.170-05	-.154-01	.648-04
.30	.447-02	.205-03	-.440-04	-.178-02	.315-05	-.162-01	.722-04
.40	.783-02	.294-03	-.681-04	-.231-02	.500-05	-.168-01	.784-04
.50	.115-01	.392-03	-.962-04	-.787-02	.718-05	-.173-01	.836-04
.70	.193-01	.605-03	-.160-03	-.402-02	.122-04	-.162-01	.921-04
1.00	.303-01	.909-03	-.257-03	-.569-02	.201-04	-.192-01	.102-03

TABLE 2.4.04 (CONTINUED)

Z=72

DC ICC F₄, i₄

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(m4)	C2(m4)
M1 - SUBSHELL							
.02	.759-01	.158-02	-.492-03	-.122-01	.383-04	-.219-01	.120-03
.05	.551-01	.856-03	-.267-03	-.852-02	.208-04	-.219-01	.120-03
.10	.680-01	.123-02	-.385-03	-.105-01	.295-04	-.220-01	.121-03
.15	.352-01	.185-02	-.571-03	-.135-01	.446-04	-.221-01	.122-03
.20	.981-01	.242-02	-.757-03	-.154-01	.592-04	-.222-01	.123-03
.30	.105+00	.313-02	-.982-03	-.186-01	.770-04	-.223-01	.123-03
.40	.990-01	.328-02	-.103-02	-.158-01	.810-04	-.225-01	.126-03
.50	.916-01	.320-02	-.101-02	-.149-01	.794-04	-.226-01	.128-03
.70	.817-01	.294-02	-.930-03	-.133-01	.737-04	-.228-01	.131-03
1.00	.753-01	.264-02	-.841-03	-.124-01	.671-04	-.231-01	.135-03

M2 - SUBSHELL

.02	.112-01	.314-04	-.107-04	-.190-02	.907-06	-.307-02	.236-05
.05	.115-01	.332-04	-.115-04	-.193-02	.959-06	-.303-02	.231-05
.10	.125-01	.398-04	-.135-04	-.214-02	.115-05	-.324-02	.263-05
.15	.137-01	.473-04	-.161-04	-.254-02	.137-05	-.340-02	.304-05
.20	.148-01	.553-04	-.183-04	-.253-02	.161-05	-.375-02	.353-05
.30	.169-01	.717-04	-.246-04	-.288-02	.210-05	-.425-02	.453-05
.40	.188-01	.893-04	-.306-04	-.322-02	.262-05	-.472-02	.539-05
.50	.205-01	.107-03	-.369-04	-.355-02	.316-05	-.517-02	.671-05
.70	.232-01	.145-03	-.501-04	-.411-02	.432-05	-.602-02	.909-05
1.00	.282-01	.205-03	-.713-04	-.491-02	.619-05	-.713-02	.130-06

M3 - SUBSHELL

.02	-.139-01	.821-04	-.398-05	.472-03	.110-06	-.146-01	.460-04
.05	-.146-01	.922-04	-.675-05	.453-03	.174-06	-.127-01	.467-04
.10	-.163-01	.121-03	-.689-05	.549-03	.184-06	-.138-01	.478-04
.15	-.179-01	.155-03	-.114-04	.602-03	.213-06	-.140-01	.483-04
.20	-.194-01	.192-03	-.143-04	.645-03	.266-06	-.141-01	.495-04
.30	-.218-01	.276-03	-.206-04	.725-03	.389-06	-.144-01	.520-04
.40	-.236-01	.369-03	-.278-04	.776-03	.520-06	-.148-01	.541-04
.50	-.247-01	.469-03	-.357-04	.804-03	.686-06	-.149-01	.562-04
.70	-.255-01	.690-03	-.526-04	.800-03	.103-05	-.154-01	.604-04
1.00	-.238-01	.997-03	-.792-04	.682-03	.159-05	-.161-01	.669-04

TABLE 2.4.04 (CONTINUED)

Z=72

DC ICC E4, M4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
M4 - SUBSHELL							
.02	.997-02	.249-04	-.236-05	-.472-03	.560-07	-.120-02	.360-06
.05	.121-01	.372-04	-.353-05	-.575-03	.837-07	-.146-02	.534-06
.10	.150-01	.522-04	-.534-05	-.716-03	.132-06	-.181-02	.832-06
.15	.176-01	.806-04	-.770-05	-.840-03	.134-06	-.212-02	.115-05
.20	.199-01	.105-05	-.100-04	-.953-03	.240-06	-.241-02	.148-05
.30	.240-01	.157-03	-.151-04	-.116-02	.365-06	-.294-02	.222-05
.40	.276-01	.214-03	-.206-04	-.135-02	.500-06	-.343-02	.303-05
.50	.309-01	.276-03	-.270-04	-.152-02	.661-06	-.359-02	.391-05
.70	.367-01	.411-03	-.408-04	-.183-02	.101-05	-.474-02	.567-05
1.00	.435-01	.634-03	-.641-04	-.224-02	.164-05	-.593-02	.929-05

M5 - SUBSHELL

.02	-.095-02	.176-04	.167-05	-.347-03	.396-07	-.136-01	.463-04
.05	-.845-02	.266-04	.251-05	-.422-03	.597-07	-.136-01	.474-04
.10	-.105-01	.426-04	.400-05	-.525-03	.943-07	-.140-01	.491-04
.15	-.123-01	.598-04	.562-05	-.614-03	.133-06	-.142-01	.509-04
.20	-.139-01	.786-04	.736-05	-.695-03	.174-06	-.144-01	.526-04
.30	-.167-01	.120-03	.112-04	-.837-03	.264-06	-.148-01	.560-04
.40	-.191-01	.167-03	.154-04	-.900-03	.362-06	-.152-01	.594-04
.50	-.212-01	.217-03	.200-04	-.107-02	.466-06	-.156-01	.623-04
.70	-.244-01	.324-03	.295-04	-.123-02	.686-06	-.162-01	.636-04
1.00	-.271-01	.466-03	.437-04	-.138-02	.103-05	-.170-01	.792-04

TOTAL M - SHELL

.02	-.381-03	.302-04	-.204-05	-.445-03	.151-06	-.136-01	.471-04
.05	-.721-03	.520-04	-.580-05	-.613-03	.281-06	-.140-01	.503-04
.10	-.222-03	.823-04	-.120-04	-.865-03	.791-06	-.145-01	.555-04
.15	.774-03	.113-03	-.189-04	-.111-02	.123-05	-.150-01	.603-04
.20	.201-02	.147-03	-.269-04	-.136-02	.136-05	-.154-01	.645-04
.30	.495-02	.225-03	-.465-04	-.137-02	.332-05	-.161-01	.718-04
.40	.832-02	.314-03	-.705-04	-.241-02	.515-05	-.167-01	.778-04
.50	.120-01	.412-03	-.931-04	-.297-02	.730-05	-.172-01	.830-04
.70	.197-01	.619-03	-.160-03	-.411-02	.122-04	-.181-01	.916-04
1.00	.308-01	.916-03	-.255-03	-.576-02	.199-04	-.192-01	.102-03

TABLE 2.4.05

Z=76

DC ICC E4,14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
L - SHELL							
.15	.125-02	.172-02	-.565-03	-.533-03	.465-04	-.235-01	.138-03
.20	.675-02	.184-02	-.605-03	-.146-02	.499-04	-.236-01	.139-03
.30	.170-01	.203-02	-.671-03	-.318-02	.554-04	-.233-01	.142-03
.40	.257-01	.215-02	-.711-03	-.465-02	.589-04	-.239-01	.143-03
.50	.530-01	.222-02	-.736-03	-.589-02	.611-04	-.240-01	.145-03
.70	.439-01	.227-02	-.758-03	-.774-02	.632-04	-.243-01	.149-03
1.00	.537-01	.226-02	-.758-03	-.946-02	.636-04	-.245-01	.152-03
L1 - SUBSHELL							
.05	.346-01	.404-03	-.133-03	-.566-02	.110-04	-.232-01	.159-03
.10	.571-01	.944-03	-.314-03	-.931-02	.258-04	-.253-01	.160-03
.15	.800-01	.167-02	-.550-03	-.131-01	.454-04	-.254-01	.161-03
.20	.984-01	.242-02	-.800-03	-.162-01	.661-04	-.255-01	.162-03
.30	.114-00	.247-02	-.115-02	-.190-01	.950-04	-.257-01	.165-03
.40	.112-00	.381-02	-.126-02	-.189-01	.105-03	-.258-01	.167-03
.50	.106-00	.552-02	-.127-02	-.190-01	.106-03	-.260-01	.169-03
.70	.962-01	.559-02	-.120-02	-.185-01	.100-02	-.262-01	.173-03
1.00	.867-01	.326-02	-.110-02	-.153-01	.924-04	-.263-01	.176-03
L2 - SUBSHELL							
.05	.115-01	.330-04	-.118-04	-.205-02	.106-05	-.306-02	.215-05
.10	.132-01	.438-04	-.157-04	-.237-02	.141-05	-.350-02	.307-05
.15	.147-01	.546-04	-.196-04	-.264-02	.176-05	-.388-02	.379-05
.20	.161-01	.653-04	-.234-04	-.289-02	.211-05	-.424-02	.451-05
.30	.186-01	.871-04	-.313-04	-.234-02	.282-05	-.480-02	.598-05
.40	.206-01	.109-03	-.395-04	-.375-02	.356-05	-.547-02	.751-05
.50	.228-01	.152-03	-.478-04	-.412-02	.432-05	-.602-02	.909-05
.70	.265-01	.180-03	-.653-04	-.482-02	.592-05	-.701-02	.124-04
1.00	.315-01	.255-03	-.931-04	-.576-02	.651-05	-.841-02	.178-04
L3 - SUBSHELL							
.05	-.143-01	.575-04	-.678-05	.516-03	.132-06	-.154-01	.592-04
.10	-.169-01	.129-03	-.100-04	.606-02	.196-06	-.156-01	.606-04
.15	-.190-01	.173-03	-.135-04	.661-03	.266-06	-.157-01	.620-04
.20	-.209-01	.221-03	-.174-04	.744-03	.343-06	-.159-01	.634-04
.30	-.237-01	.327-03	-.259-04	.842-03	.516-06	-.162-01	.661-04
.40	-.258-01	.444-03	-.355-04	.907-03	.714-06	-.165-01	.686-04
.50	-.272-01	.570-03	-.459-04	.943-03	.932-06	-.168-01	.715-04
.70	-.281-01	.837-03	-.685-04	.940-03	.142-05	-.174-01	.769-04
1.00	-.261-01	.124-02	-.104-03	.799-03	.220-05	-.182-01	.834-04
TOTAL L - SHELL							
.05	-.253-02	.649-04	-.968-05	-.661-03	.600-06	-.157-01	.622-04
.10	-.726-03	.949-04	-.164-04	-.102-02	.110-05	-.165-01	.708-04
.15	.866-03	.130-05	-.247-04	-.134-02	.174-05	-.171-01	.778-04
.20	.253-02	.171-03	-.348-04	-.165-02	.253-05	-.176-01	.849-04
.30	.622-02	.264-03	-.600-04	-.225-02	.453-05	-.185-01	.943-04
.40	.103-01	.373-03	-.911-04	-.296-02	.705-05	-.192-01	.103-03
.50	.146-01	.492-03	-.127-03	-.365-02	.100-04	-.198-01	.110-03
.70	.236-01	.744-03	-.208-03	-.504-02	.167-04	-.209-01	.122-03
1.00	.362-01	.111-02	-.531-03	-.702-02	.273-04	-.221-01	.135-03

TABLE 2.4.05 (CONTINUED)

Z=76

DC ICC E4, E5

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
1.1 - SUBSHELL							
.02	.086-01	.243-02	-.800-03	-.162-01	.659-04	-.254-01	.162-01
.05	.653-01	.117-02	-.386-03	-.107-01	.318-04	-.255-01	.162-03
.10	.740-01	.144-02	-.481-03	-.121-01	.327-04	-.256-01	.164-03
.15	.890-01	.201-02	-.565-03	-.146-01	.579-04	-.257-01	.165-03
.20	.102+00	.239-02	-.856-03	-.168-01	.700-04	-.258-01	.166-03
.30	.115+00	.344-02	-.114-02	-.191-01	.944-04	-.259-01	.168-03
.40	.114+00	.379-02	-.126-02	-.192-01	.105-03	-.261-01	.170-03
.50	.110+00	.385-02	-.125-02	-.188-01	.107-03	-.263-01	.173-03
.70	.101+00	.369-02	-.123-02	-.182-01	.103-03	-.265-01	.177-03
1.00	.920-01	.323-02	-.114-02	-.160-01	.930-04	-.269-01	.182-03
1.2 - SUBSHELL							
.02	.141-01	.797-04	-.178-04	-.232-02	.159-03	-.408-02	.417-03
.05	.142-01	.511-04	-.183-04	-.256-02	.164-03	-.396-02	.396-03
.10	.154-01	.593-04	-.213-04	-.276-02	.191-03	-.419-02	.440-03
.15	.163-01	.691-04	-.245-04	-.298-02	.223-03	-.446-02	.500-03
.20	.176-01	.795-04	-.286-04	-.320-02	.257-03	-.475-02	.567-03
.30	.200-01	.101-03	-.364-04	-.351-02	.328-03	-.502-02	.711-03
.40	.221-01	.124-03	-.446-04	-.399-02	.403-03	-.587-02	.864-03
.50	.241-01	.147-03	-.531-04	-.435-02	.480-03	-.658-02	.102-04
.70	.277-01	.195-03	-.709-04	-.502-02	.644-03	-.756-02	.136-04
1.00	.325-01	.272-03	-.992-04	-.595-02	.907-03	-.870-02	.190-04
1.3 - SUBSHELL							
.02	-.172-01	.127-03	-.979-05	.620-03	.190-06	-.154-01	.596-04
.05	-.178-01	.138-03	-.107-04	.638-03	.209-06	-.155-01	.601-04
.10	-.195-01	.176-03	-.137-04	.700-03	.269-06	-.157-01	.619-04
.15	-.213-01	.222-03	-.173-04	.761-03	.342-06	-.159-01	.635-04
.20	-.229-01	.272-03	-.214-04	.815-03	.423-06	-.161-01	.646-04
.30	-.253-01	.384-03	-.304-04	.900-03	.606-06	-.164-01	.674-04
.40	-.273-01	.507-03	-.405-04	.956-03	.815-06	-.167-01	.701-04
.50	-.285-01	.636-03	-.514-04	.983-03	.104-05	-.170-01	.728-04
.70	-.290-01	.915-03	-.749-04	.966-03	.155-05	-.175-01	.784-04
1.00	-.266-01	.132-02	-.111-03	.808-03	.236-05	-.184-01	.869-04

TABLE 2.4.05 (CONTINUED)

Z=76

DC ICC E4, E4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
M4 - SUBSHELL							
.02	.120-01	.359-04	-.358-05	-.596-03	.890-07	-.151-02	.571-06
.05	.143-01	.520-04	-.519-05	-.716-03	.129-06	-.181-02	.822-06
.10	.176-01	.794-04	-.795-05	-.881-03	.199-06	-.222-02	.125-05
.15	.204-01	.108-03	-.109-04	-.103-02	.273-06	-.258-02	.169-05
.20	.230-01	.139-03	-.140-04	-.116-02	.353-06	-.291-02	.216-05
.30	.276-01	.206-03	-.209-04	-.140-02	.329-06	-.352-02	.317-05
.40	.316-01	.278-03	-.284-04	-.162-02	.725-06	-.408-02	.426-05
.50	.353-01	.356-03	-.366-04	-.182-02	.940-06	-.461-02	.549-05
.70	.417-01	.525-03	-.547-04	-.219-02	.142-05	-.560-02	.815-05
1.00	.493-01	.802-03	-.652-04	-.266-02	.227-05	-.696-02	.127-04
M5 - SUBSHELL							
.02	-.840-02	.256-04	.254-05	-.439-03	.635-07	-.155-01	.600-06
.05	-.101-01	.375-04	.372-05	-.527-03	.929-07	-.157-01	.614-04
.10	-.124-01	.504-04	.578-05	-.648-03	.144-06	-.159-01	.637-04
.15	-.144-01	.811-04	.800-05	-.753-03	.199-06	-.162-01	.659-04
.20	-.162-01	.105-03	.104-04	-.848-03	.257-06	-.164-01	.682-04
.30	-.193-01	.159-03	.156-04	-.102-02	.385-06	-.169-01	.726-04
.40	-.220-01	.218-03	.213-04	-.116-02	.524-06	-.174-01	.771-04
.50	-.244-01	.282-03	.274-04	-.129-02	.671-06	-.178-01	.816-04
.70	-.280-01	.419-03	.402-04	-.149-02	.979-06	-.186-01	.905-04
1.00	-.312-01	.626-03	.592-04	-.167-02	.144-05	-.195-01	.103-03
TOTAL M - SHELL							
.02	-.246-03	.428-04	-.290-05	-.570-03	.235-06	-.155-01	.609-04
.05	-.451-03	.733-04	-.648-05	-.796-03	.599-06	-.159-01	.650-04
.10	.319-03	.115-03	-.175-04	-.113-02	.123-05	-.165-01	.718-04
.15	.164-02	.155-03	-.271-04	-.145-02	.195-05	-.171-01	.782-04
.20	.323-02	.199-03	-.381-04	-.177-02	.279-05	-.175-01	.839-04
.30	.687-02	.295-03	-.641-04	-.242-02	.484-05	-.184-01	.937-04
.40	.109-01	.404-03	-.952-04	-.309-02	.733-05	-.191-01	.102-03
.50	.152-01	.522-03	-.131-03	-.377-02	.103-04	-.197-01	.109-03
.70	.241-01	.769-03	-.209-03	-.515-02	.168-04	-.208-01	.121-03
1.00	.366-01	.113-02	-.330-03	-.711-02	.271-04	-.221-01	.135-03

TABLE 2.4.06

Z=80

OC ICC E4,14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
K - SHELL							
.20	.190-01	.273-02	-.946-03	-.285-02	.821-04	-.271-01	.187-03
.30	.315-01	.290-02	-.101-02	-.592-02	.877-04	-.273-01	.187-03
.40	.409-01	.299-02	-.104-02	-.753-02	.907-04	-.275-01	.189-03
.50	.482-01	.302-02	-.105-02	-.689-02	.921-04	-.276-01	.192-03
.70	.586-01	.301-02	-.105-02	-.100-01	.926-04	-.279-01	.196-03
1.00	.673-01	.292-02	-.103-02	-.124-01	.910-04	-.283-01	.203-03
L1 - SUBSHELL							
.05	.394-01	.519-03	-.180-03	-.674-02	.156-04	-.291-01	.212-03
.10	.613-01	.110-02	-.280-03	-.105-01	.330-04	-.292-01	.214-03
.15	.827-01	.132-02	-.631-03	-.143-01	.548-04	-.293-01	.215-03
.20	.101-00	.257-02	-.892-03	-.175-01	.777-04	-.294-01	.217-03
.30	.121-00	.273-02	-.130-02	-.212-01	.114-03	-.296-01	.220-03
.40	.125-00	.430-02	-.150-02	-.221-01	.131-03	-.298-01	.225-03
.50	.123-00	.448-02	-.157-02	-.218-01	.137-03	-.300-01	.225-03
.70	.115-00	.459-02	-.155-02	-.206-01	.130-03	-.304-01	.231-03
1.00	.107-00	.408-02	-.145-02	-.193-01	.120-03	-.306-01	.230-03
L2 - SUBSHELL							
.05	.140-01	.489-04	-.184-04	-.263-02	.173-05	-.342-02	.360-05
.10	.159-01	.635-04	-.239-04	-.300-02	.225-05	-.443-02	.493-05
.15	.176-01	.777-04	-.293-04	-.332-02	.270-05	-.488-02	.598-05
.20	.191-01	.919-04	-.346-04	-.361-02	.327-05	-.529-02	.703-05
.30	.218-01	.120-03	-.455-04	-.413-02	.430-05	-.604-02	.915-05
.40	.243-01	.149-03	-.565-04	-.460-02	.535-05	-.672-02	.113-04
.50	.265-01	.179-03	-.670-04	-.304-02	.642-05	-.735-02	.156-04
.70	.306-01	.259-03	-.911-04	-.584-02	.868-05	-.852-02	.182-04
1.00	.361-01	.233-03	-.128-03	-.684-02	.123-04	-.101-01	.250-04
L3 - SUBSHELL							
.05	-.172-01	.126-03	-.105-04	.655-03	.213-06	-.174-01	.759-04
.10	-.200-01	.182-03	-.149-04	.761-03	.309-06	-.176-01	.777-04
.15	-.223-01	.241-03	-.199-04	.847-03	.414-06	-.178-01	.795-04
.20	-.244-01	.306-03	-.254-04	.922-03	.529-06	-.180-01	.813-04
.30	-.275-01	.447-03	-.373-04	.103-02	.785-06	-.184-01	.846-04
.40	-.298-01	.601-03	-.507-04	.111-02	.108-05	-.187-01	.882-04
.50	-.312-01	.767-03	-.651-04	.114-02	.159-05	-.191-01	.914-04
.70	-.318-01	.111-02	-.961-04	.113-02	.209-05	-.197-01	.988-04
1.00	-.291-01	.163-02	-.144-03	.939-03	.321-05	-.207-01	.110-03
TOTAL L - SHELL							
.05	-.305-02	.936-04	-.147-04	-.839-03	.955-06	-.178-01	.799-04
.10	-.359-03	.131-03	-.240-04	-.153-02	.171-05	-.186-01	.902-04
.15	.175-02	.176-03	-.353-04	-.173-02	.263-05	-.193-01	.956-04
.20	.384-02	.277-03	-.468-04	-.213-02	.374-05	-.200-01	.108-03
.30	.857-02	.341-03	-.816-04	-.293-02	.650-05	-.210-01	.122-03
.40	.132-01	.472-03	-.121-03	-.374-02	.991-05	-.219-01	.134-02
.50	.182-01	.615-03	-.167-03	-.457-02	.139-04	-.227-01	.145-03
.70	.284-01	.915-03	-.266-03	-.624-02	.228-04	-.239-01	.159-03
1.00	.425-01	.135-02	-.423-03	-.856-02	.367-04	-.254-01	.178-03

TABLE 2.4.06 (CONTINUED)

Z=80

DC ICC E4.14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
M1 - SUBSHELL							
.02	.118+00	.356-02	-.123-02	-.206-01	.107-03	-.295-01	.217-03
.05	.774-01	.161-02	-.538-03	-.133-01	.484-04	-.295-01	.218-03
.10	.819-01	.178-02	-.618-03	-.141-01	.537-04	-.296-01	.220-03
.15	.946-01	.230-02	-.793-03	-.164-01	.694-04	-.297-01	.221-03
.20	.107+00	.286-02	-.994-03	-.185-01	.865-04	-.298-01	.223-03
.30	.122+00	.277-02	-.132-02	-.213-01	.115-03	-.301-01	.226-03
.40	.127-00	.429-02	-.150-02	-.223-01	.131-03	-.302-01	.229-03
.50	.125-00	.449-02	-.157-02	-.222-01	.138-03	-.304-01	.232-03
.70	.119+00	.449-02	-.158-02	-.213-01	.139-03	-.308-01	.237-03
1.00	.111+00	.422-02	-.150-02	-.200-01	.133-03	-.312-01	.245-03
M2 - SUBSHELL							
.02	.176-01	.718-04	-.292-04	-.352-02	.275-05	-.537-02	.724-05
.05	.177-01	.781-04	-.294-04	-.353-02	.276-05	-.520-02	.678-05
.10	.188-01	.832-04	-.332-04	-.354-02	.313-05	-.535-02	.748-05
.15	.201-01	.101-03	-.580-04	-.378-02	.358-05	-.569-02	.811-05
.20	.215-01	.114-03	-.431-04	-.403-02	.407-05	-.601-02	.906-05
.30	.238-01	.142-03	-.538-04	-.450-02	.509-05	-.662-02	.111-04
.40	.260-01	.171-03	-.649-04	-.494-02	.615-05	-.727-02	.133-04
.50	.282-01	.201-03	-.763-04	-.535-02	.725-05	-.788-02	.155-04
.70	.321-01	.262-03	-.100-03	-.613-02	.957-05	-.698-02	.202-04
1.00	.374-01	.359-03	-.138-03	-.715-02	.132-04	-.105-01	.278-04
M3 - SUBSHELL							
.02	-.212-01	.194-03	-.158-04	.806-03	.325-06	-.175-01	.766-04
.05	-.216-01	.207-03	-.169-04	.820-03	.349-06	-.176-01	.778-04
.10	-.234-01	.257-03	-.211-04	.888-03	.436-06	-.176-01	.796-04
.15	-.253-01	.317-03	-.262-04	.956-03	.544-06	-.180-01	.813-04
.20	-.270-01	.384-03	-.319-04	.102-02	.665-06	-.182-01	.851-04
.30	-.297-01	.533-03	-.445-04	.111-02	.938-06	-.186-01	.866-04
.40	-.316-01	.696-03	-.586-04	.117-02	.125-05	-.188-01	.901-04
.50	-.327-01	.869-03	-.738-04	.120-02	.158-05	-.195-01	.936-04
.70	-.330-01	.123-02	-.106-03	.110-02	.231-05	-.199-01	.101-05
1.00	-.297-01	.176-02	-.155-03	.940-03	.347-05	-.209-01	.112-03

TABLE 2.4.06 (CONTINUED)

Z=60

DC ICC Engr

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
H4 - SUBSHELL							
.02	.143-01	.513-04	-.536-05	-.747-03	.140-06	-.188-02	.891-06
.05	.169-01	.724-04	-.757-05	-.886-03	.198-06	-.223-02	.125-05
.10	.205-01	.108-03	-.113-04	-.108-02	.297-06	-.270-02	.185-05
.15	.237-01	.145-03	-.153-04	-.125-02	.402-06	-.312-02	.247-05
.20	.265-01	.185-03	-.195-04	-.140-02	.514-06	-.350-02	.312-05
.30	.316-01	.269-03	-.286-04	-.160-02	.759-06	-.420-02	.451-05
.40	.261-01	.360-03	-.305-04	-.194-02	.103-05	-.484-02	.601-05
.50	.402-01	.458-03	-.493-04	-.217-02	.153-05	-.545-02	.764-05
.70	.473-01	.669-03	-.729-04	-.260-02	.199-05	-.657-02	.112-04
1.00	.558-01	.101-02	-.112-03	-.314-02	.313-05	-.812-02	.173-04

H5 - SUBSHELL

.02	-.101-01	.368-04	.383-05	-.552-03	.100-06	-.176-01	.772-04
.05	-.120-01	.526-04	.547-05	-.654-03	.145-06	-.178-01	.790-04
.10	-.145-01	.800-04	.829-05	-.796-03	.216-06	-.181-01	.819-04
.15	-.166-01	.109-03	.113-04	-.919-03	.295-05	-.184-01	.848-04
.20	-.188-01	.141-03	.145-04	-.103-02	.378-06	-.187-01	.977-04
.30	-.223-01	.210-03	.216-04	-.123-02	.556-06	-.192-01	.934-04
.40	-.254-01	.286-03	.292-04	-.146-02	.753-06	-.197-01	.992-04
.50	-.280-01	.367-03	.373-04	-.154-02	.959-06	-.202-01	.105-03
.70	-.322-01	.540-03	.544-04	-.178-02	.139-05	-.212-01	.117-03
1.00	-.359-01	.804-03	.798-04	-.200-02	.202-05	-.223-01	.134-03

TOTAL H - SHELL

.02	-.743-04	.602-04	-.410-05	-.722-03	.361-06	-.176-01	.783-04
.05	-.586-04	.103-03	-.123-04	-.102-02	.932-06	-.180-01	.634-04
.10	.108-02	.159-03	-.255-04	-.147-02	.191-05	-.167-01	.922-04
.15	.281-02	.212-03	-.391-04	-.188-02	.297-05	-.194-01	.101-03
.20	.481-02	.267-03	-.540-04	-.229-02	.418-05	-.199-01	.108-02
.30	.927-02	.387-03	-.685-04	-.310-02	.705-05	-.210-01	.122-03
.40	.141-01	.520-03	-.129-03	-.392-02	.105-04	-.218-01	.133-03
.50	.191-01	.661-03	-.174-03	-.475-02	.144-04	-.226-01	.143-03
.70	.292-01	.955-03	-.273-03	-.639-02	.231-04	-.239-01	.159-03
1.00	.450-01	.138-02	-.425-03	-.866-02	.368-04	-.254-01	.178-03

TABLE 2.4.07

Z=84

DC JCC E4,12

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
K - SHELL							
.20	.387-01	.393-02	-.143-02	-.754-02	.130-03	-.310-01	.241-03
.30	.507-01	.401-02	-.147-02	-.976-02	.134-03	-.313-01	.244-03
.40	.599-01	.403-02	-.148-02	-.113-01	.135-03	-.315-01	.248-03
.50	.667-01	.401-02	-.147-02	-.127-01	.135-03	-.316-01	.251-03
.70	.757-01	.389-02	-.143-02	-.144-01	.132-03	-.320-01	.257-03
1.00	.827-01	.371-02	-.137-02	-.158-01	.128-03	-.324-01	.266-03
L1 - SUBSHELL							
.05	.454-01	.677-03	-.246-03	-.816-02	.225-04	-.337-01	.284-03
.10	.668-01	.130-02	-.476-03	-.121-01	.434-04	-.338-01	.285-03
.15	.872-01	.205-02	-.747-03	-.158-01	.682-04	-.339-01	.287-03
.20	.105+00	.280-02	-.102-02	-.190-01	.936-04	-.340-01	.289-03
.30	.127-00	.406-02	-.149-02	-.233-01	.136-03	-.342-01	.293-03
.40	.136-00	.480-02	-.176-02	-.251-01	.162-03	-.345-01	.297-03
.50	.137-00	.515-02	-.189-02	-.255-01	.174-03	-.347-01	.300-03
.70	.133-00	.526-02	-.194-02	-.248-01	.180-03	-.350-01	.307-03
1.00	.125+00	.503-02	-.187-02	-.236-01	.174-03	-.356-01	.317-03
L2 - SUBSHELL							
.05	.170-01	.726-04	-.286-04	-.336-02	.282-05	-.502-02	.632-05
.10	.192-01	.922-04	-.363-04	-.378-02	.358-05	-.561-02	.789-05
.15	.210-01	.111-03	-.438-04	-.415-02	.433-05	-.613-02	.942-05
.20	.227-01	.130-03	-.513-04	-.449-02	.506-05	-.660-02	.109-04
.30	.257-01	.167-03	-.661-04	-.510-02	.654-05	-.747-02	.140-04
.40	.284-01	.204-03	-.810-04	-.564-02	.804-05	-.825-02	.171-04
.50	.209-01	.242-03	-.962-04	-.615-02	.957-05	-.898-02	.202-04
.70	.354-01	.319-03	-.127-03	-.707-02	.127-04	-.103-01	.267-04
1.00	.414-01	.428-03	-.176-03	-.832-02	.177-04	-.121-01	.370-04
L3 - SUBSHELL							
.05	-.205-01	.182-03	-.157-04	.827-03	.330-06	-.197-01	.966-04
.10	-.236-01	.257-03	-.222-04	.951-03	.484-06	-.199-01	.989-04
.15	-.262-01	.316-03	-.292-04	.105-02	.639-06	-.201-01	.101-03
.20	-.284-01	.422-03	-.369-04	.114-02	.809-06	-.203-01	.103-03
.30	-.319-01	.609-03	-.535-04	.126-02	.119-05	-.207-01	.108-03
.40	-.342-01	.813-03	-.720-04	.135-02	.161-05	-.211-01	.112-03
.50	-.356-01	.103-02	-.519-04	.138-02	.207-05	-.215-01	.117-03
.70	-.360-01	.148-02	-.134-03	.154-02	.307-05	-.223-01	.126-05
1.00	-.323-01	.214-02	-.198-03	.110-02	.466-05	-.233-01	.139-03
TOTAL L - SHELL							
.05	-.371-02	.135-03	-.221-04	-.105-02	.151-05	-.200-01	.101-03
.10	.167-03	.182-03	-.353-04	-.172-02	.265-05	-.210-01	.114-03
.15	.296-02	.238-03	-.507-04	-.224-02	.398-05	-.218-01	.127-05
.20	.560-02	.301-03	-.686-04	-.274-02	.555-05	-.226-01	.138-03
.30	.111-01	.442-03	-.111-03	-.372-02	.936-05	-.239-01	.157-03
.40	.168-01	.599-03	-.163-03	-.471-02	.140-04	-.249-01	.173-03
.50	.225-01	.770-03	-.220-03	-.571-02	.192-04	-.258-01	.186-05
.70	.340-01	.112-02	-.340-03	-.766-02	.310-04	-.273-01	.208-05
1.00	.495-01	.164-02	-.540-03	-.104-01	.493-04	-.291-01	.233-05

TABLE 2.4.07 (CONTINUED)

Z=84

DC ICC E4, M4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
M1 - SUBSHELL							
.02	.137-00	.493-02	-.180-02	-.250-01	.164-03	-.341-01	.290-03
.05	.917-01	.221-02	-.805-03	-.166-01	.734-04	-.341-01	.291-03
.10	.915-01	.221-02	-.807-03	-.166-01	.736-04	-.342-01	.293-03
.15	.102+00	.268-02	-.960-03	-.186-01	.895-04	-.344-01	.295-03
.20	.113+00	.322-02	-.118-02	-.206-01	.108-03	-.345-01	.297-03
.30	.129-00	.418-02	-.153-02	-.237-01	.140-03	-.347-01	.301-03
.40	.137-00	.480-02	-.176-02	-.252-01	.162-03	-.349-01	.305-03
.50	.139-00	.514-02	-.189-02	-.257-01	.174-03	-.351-01	.309-03
.70	.136-00	.532-02	-.197-02	-.254-01	.182-03	-.355-01	.316-03
1.00	.129-00	.516-02	-.192-02	-.243-01	.179-03	-.360-01	.326-03
M2 - SUBSHELL							
.02	.220-01	.121-03	-.475-04	-.433-02	.468-05	-.703-02	.124-04
.05	.218-01	.119-03	-.469-04	-.430-02	.462-05	-.675-02	.114-04
.10	.229-01	.131-03	-.516-04	-.451-02	.509-05	-.690-02	.119-04
.15	.242-01	.147-03	-.580-04	-.478-02	.572-05	-.722-02	.131-04
.20	.256-01	.164-03	-.648-04	-.506-02	.641-05	-.757-02	.144-04
.30	.282-01	.200-03	-.792-04	-.559-02	.784-05	-.828-02	.172-04
.40	.307-01	.237-03	-.941-04	-.609-02	.934-05	-.898-02	.202-04
.50	.330-01	.275-03	-.109-03	-.656-02	.109-04	-.965-02	.234-04
.70	.375-01	.353-03	-.141-03	-.745-02	.141-04	-.109-01	.299-04
1.00	.431-01	.473-03	-.190-03	-.867-02	.191-04	-.127-01	.403-04
M3 - SUBSHELL							
.02	-.259-01	.295-03	-.253-04	.104-02	.548-06	-.193-01	.977-04
.05	-.261-01	.307-03	-.265-04	.105-02	.575-06	-.199-01	.991-04
.10	-.279-01	.372-03	-.322-04	.112-02	.702-06	-.201-01	.101-03
.15	-.299-01	.453-03	-.394-04	.120-02	.861-06	-.204-01	.104-03
.20	-.317-01	.542-03	-.473-04	.126-02	.104-05	-.206-01	.106-03
.30	-.346-01	.739-03	-.650-04	.137-02	.144-05	-.210-01	.110-03
.40	-.365-01	.954-03	-.846-04	.143-02	.189-05	-.214-01	.115-03
.50	-.375-01	.118-02	-.106-03	.145-02	.238-05	-.218-01	.119-03
.70	-.373-01	.165-02	-.150-03	.138-02	.343-05	-.225-01	.128-03
1.00	-.330-01	.233-02	-.216-03	.110-02	.507-05	-.236-01	.142-03

TABLE 2.4.07 (CONTINUED)

Z=64

DC ICC E4, K

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
114 ~ SUBSHELL							
.02	.170-01	.727-04	-.793-05	-.929-05	.216-06	-.234-02	.137-05
.05	.199-01	.100-03	-.109-04	-.109-02	.299-06	-.273-02	.187-05
.10	.239-01	.146-03	-.160-04	-.141-02	.439-06	-.327-02	.271-05
.15	.274-01	.194-03	-.213-04	-.151-02	.586-06	-.375-02	.356-05
.20	.305-01	.244-03	-.269-04	-.169-02	.742-06	-.419-02	.445-05
.30	.362-01	.350-03	-.369-04	-.201-02	.108-05	-.498-02	.633-05
.40	.412-01	.465-03	-.519-04	-.231-02	.145-05	-.572-02	.836-05
.50	.457-01	.586-03	-.659-04	-.258-02	.185-05	-.640-02	.105-06
.70	.536-01	.848-03	-.965-04	-.307-02	.275-05	-.768-02	.153-06
1.00	.650-01	.127-02	-.148-03	-.370-02	.428-05	-.944-02	.235-06
115 ~ SUBSHELL							
.02	-.121-01	.524-04	.571-05	-.680-03	.156-06	-.198-01	.985-04
.05	-.142-01	.732-04	.796-05	-.808-03	.217-06	-.201-01	.101-05
.10	-.170-01	.109-03	.118-04	-.972-03	.322-06	-.204-01	.104-03
.15	-.195-01	.147-03	.155-04	-.112-02	.433-06	-.207-01	.100-03
.20	-.218-01	.137-03	.202-04	-.124-02	.550-06	-.211-01	.112-03
.30	-.257-01	.276-03	.296-04	-.147-02	.801-03	-.217-01	.119-03
.40	-.292-01	.372-03	.398-04	-.167-02	.107-05	-.223-01	.126-03
.50	-.321-01	.475-03	.505-04	-.185-02	.136-05	-.229-01	.134-03
.70	-.369-01	.693-03	.731-04	-.212-02	.195-05	-.240-01	.140-03
1.00	-.412-01	.103-02	.107-03	-.239-02	.282-05	-.253-01	.171-03
TOTAL 11 ~ SHELL							
.02	.144-03	.841-04	-.576-05	-.908-03	.547-06	-.199-01	.997-04
.05	.483-03	.142-03	-.178-04	-.131-02	.144-05	-.203-01	.106-03
.10	.213-02	.220-03	-.370-04	-.190-02	.294-05	-.211-01	.118-03
.15	.426-02	.289-03	-.512-04	-.243-02	.452-05	-.219-01	.129-03
.20	.687-02	.300-05	-.765-04	-.294-02	.626-05	-.226-01	.139-03
.30	.125-01	.508-03	-.122-03	-.395-02	.105-04	-.238-01	.157-03
.40	.179-01	.668-03	-.174-03	-.495-02	.150-04	-.248-01	.172-03
.50	.237-01	.837-03	-.232-03	-.594-02	.202-04	-.257-01	.185-03
.70	.350-01	.118-02	-.355-03	-.706-02	.317-04	-.275-01	.207-03
1.00	.503-01	.168-02	-.544-03	-.105-01	.495-04	-.291-01	.233-03

TABLE 2.4.06

Z=85

DC ICC E4,14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
K - SHELL							
.30	.751-01	.549-02	-.210-02	-.149-01	.201-03	-.360-01	.324-03
.40	.629-01	.539-02	-.207-02	-.164-01	.198-03	-.362-01	.329-03
.50	.686-01	.528-02	-.203-02	-.176-01	.195-03	-.365-01	.333-03
.70	.955-01	.504-02	-.194-02	-.190-01	.188-03	-.369-01	.341-03
1.00	.101-00	.474-02	-.184-02	-.201-01	.179-03	-.374-01	.355-03
L1 - SUBSHELL							
.05	.529-01	.903-03	-.345-03	-.997-02	.329-04	-.391-01	.383-03
.10	.743-01	.161-02	-.615-03	-.141-01	.528-04	-.392-01	.385-03
.15	.940-01	.240-02	-.918-03	-.179-01	.878-04	-.394-01	.388-03
.20	.111-00	.319-02	-.122-02	-.212-01	.117-03	-.395-01	.390-03
.30	.135-00	.454-02	-.174-02	-.254-01	.167-03	-.397-01	.395-03
.40	.147-00	.544-02	-.209-02	-.283-01	.201-03	-.400-01	.400-03
.50	.151-00	.594-02	-.229-02	-.292-01	.221-03	-.402-01	.405-03
.70	.150-00	.628-02	-.243-02	-.294-01	.235-03	-.407-01	.414-03
1.00	.147-00	.619-02	-.241-02	-.285-01	.235-03	-.413-01	.428-03
L2 - SUBSHELL							
.05	.209-01	.109-03	-.450-04	-.431-02	.464-05	-.665-02	.104-04
.10	.233-01	.136-03	-.500-04	-.480-02	.577-05	-.713-02	.128-04
.15	.253-01	.161-03	-.665-04	-.524-02	.687-05	-.773-02	.150-04
.20	.272-01	.186-03	-.768-04	-.563-02	.794-05	-.829-02	.172-04
.30	.306-01	.235-03	-.974-04	-.633-02	.101-04	-.929-02	.216-04
.40	.335-01	.284-03	-.118-03	-.697-02	.122-04	-.102-01	.261-04
.50	.363-01	.333-03	-.139-03	-.755-02	.144-04	-.110-01	.306-04
.70	.413-01	.432-03	-.181-03	-.862-02	.188-04	-.126-01	.397-04
1.00	.479-01	.584-03	-.245-03	-.101-01	.258-04	-.147-01	.540-04
L3 - SUBSHELL							
.05	-.247-01	.265-03	-.240-04	.105-02	.547-06	-.223-01	.125-03
.10	-.281-01	.368-03	-.534-04	.119-02	.764-06	-.226-01	.128-03
.15	-.311-01	.478-03	-.436-04	.131-02	.100-05	-.228-01	.130-03
.20	-.335-01	.594-03	-.544-04	.141-02	.125-05	-.231-01	.133-03
.30	-.373-01	.847-03	-.782-04	.155-02	.182-05	-.235-01	.139-03
.40	-.597-01	.112-02	-.104-03	.164-02	.244-05	-.240-01	.145-03
.50	-.411-01	.141-02	-.152-03	.167-02	.312-05	-.244-01	.150-03
.70	-.409-01	.200-02	-.191-03	.160-02	.458-05	-.253-01	.162-03
1.00	-.360-01	.286-02	-.279-03	.127-02	.685-05	-.265-01	.180-03
TOTAL L - SHELL							
.05	-.497-02	.200-03	-.337-04	-.127-02	.237-05	-.226-01	.129-03
.10	.924-03	.257-03	-.527-04	-.224-02	.418-05	-.237-01	.146-03
.15	.453-02	.329-03	-.741-04	-.291-02	.614-05	-.248-01	.163-03
.20	.788-02	.407-03	-.983-04	-.354-02	.837-05	-.257-01	.178-03
.30	.145-01	.583-03	-.155-03	-.475-02	.137-04	-.272-01	.204-03
.40	.212-01	.775-03	-.222-03	-.595-02	.200-04	-.285-01	.226-03
.50	.278-01	.981-03	-.295-03	-.713-02	.271-04	-.296-01	.245-03
.70	.467-01	.140-02	-.455-03	-.942-02	.427-04	-.314-01	.275-03
1.00	.575-01	.202-02	-.698-03	-.125-01	.668-04	-.335-01	.309-03

TABLE 2.4.08 (CONTINUED)

Z=88

DC ICC E4, M

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
M1 - SUBSHELL							
.02	.155-00	.667-02	-.255-02	-.298-01	.243-03	-.397-01	.393-03
.05	.109+00	.308-02	-.117-02	-.208-01	.112-03	-.397-01	.394-03
.10	.104+00	.284-02	-.109-02	-.190-01	.104-03	-.398-01	.397-03
.15	.112+00	.326-02	-.125-02	-.214-01	.119-03	-.400-01	.599-03
.20	.122+00	.379-02	-.145-02	-.234-01	.139-03	-.401-01	.402-03
.30	.138-00	.476-02	-.183-02	-.265-01	.176-03	-.403-01	.407-03
.40	.148-00	.550-02	-.212-02	-.285-01	.204-03	-.406-01	.412-03
.50	.152-00	.596-02	-.230-02	-.294-01	.222-03	-.408-01	.417-03
.70	.153-00	.634-02	-.245-02	-.298-01	.238-03	-.413-01	.426-03
1.00	.148-00	.653-02	-.247-02	-.292-01	.240-03	-.419-01	.440-03
M2 - SUBSHELL							
.02	.275-01	.189-03	-.780-04	-.567-02	.803-05	-.921-02	.213-04
.05	.271-01	.183-03	-.757-04	-.559-02	.780-05	-.879-02	.194-04
.10	.261-01	.197-03	-.614-04	-.580-02	.849-05	-.889-02	.198-04
.15	.255-01	.217-03	-.697-04	-.609-02	.927-05	-.922-02	.213-04
.20	.309-01	.239-03	-.990-04	-.639-02	.102-04	-.900-02	.231-04
.30	.337-01	.286-03	-.119-03	-.699-02	.123-04	-.104-01	.271-04
.40	.364-01	.334-03	-.139-03	-.757-02	.144-04	-.112-01	.314-04
.50	.390-01	.382-03	-.159-03	-.811-02	.166-04	-.119-01	.358-04
.70	.437-01	.483-03	-.202-03	-.913-02	.211-04	-.134-01	.449-04
1.00	.500-01	.637-03	-.266-03	-.105-01	.261-04	-.154-01	.594-04
M3 - SUBSHELL							
.02	-.319-01	.454-03	-.410-04	.135-02	.952-06	-.225-01	.126-03
.05	-.318-01	.464-03	-.420-04	.134-02	.957-06	-.226-01	.128-03
.10	-.337-01	.550-03	-.500-04	.142-02	.114-03	-.229-01	.131-03
.15	-.357-01	.659-03	-.601-04	.150-02	.138-03	-.231-01	.134-03
.20	-.376-01	.779-03	-.714-04	.157-02	.165-03	-.234-01	.137-03
.30	-.406-01	.105-02	-.966-04	.169-02	.225-03	-.239-01	.143-03
.40	-.425-01	.133-02	-.124-03	.174-02	.291-03	-.243-01	.148-03
.50	-.433-01	.164-02	-.154-03	.175-02	.363-03	-.247-01	.154-03
.70	-.424-01	.276-02	-.215-03	.165-02	.516-03	-.256-01	.166-03
1.00	-.367-01	.314-02	-.306-03	.128-02	.752-03	-.269-01	.184-03

TABLE 2.4.08 (CONTINUED)

Z=88

DC ICC E4, N4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	G1(N4)	G2(M4)
N4 - SUBSHELL							
.02	.204-01	.104-03	-.119-04	-.116-02	.339-06	-.291-02	.213-05
.05	.236-01	.141-03	-.161-04	-.135-02	.458-06	-.336-02	.285-05
.10	.281-01	.201-03	-.230-04	-.161-02	.659-06	-.399-02	.402-05
.15	.320-01	.263-03	-.302-04	-.184-02	.868-06	-.454-02	.521-05
.20	.355-01	.327-03	-.377-04	-.205-02	.109-05	-.504-02	.644-05
.30	.418-01	.464-03	-.538-04	-.243-02	.156-05	-.596-02	.903-05
.40	.473-01	.610-03	-.712-04	-.277-02	.208-05	-.680-02	.118-04
.50	.524-01	.765-03	-.898-04	-.309-02	.264-05	-.758-02	.147-04
.70	.612-01	.110-02	-.130-03	-.366-02	.387-05	-.905-02	.211-04
1.00	.718-01	.162-02	-.197-03	-.440-02	.597-05	-.111-01	.318-04
M5 - SUBSHELL							
.02	-.146-01	.758-04	.862-05	-.867-03	.246-06	-.226-01	.127-03
.05	-.169-01	.104-03	.118-04	-.101-02	.336-06	-.228-01	.130-03
.10	-.201-01	.151-03	.171-04	-.120-02	.487-06	-.232-01	.135-03
.15	-.230-01	.201-03	.227-04	-.137-02	.646-06	-.236-01	.140-03
.20	-.255-01	.254-03	.286-04	-.152-02	.813-06	-.240-01	.145-03
.30	-.300-01	.368-03	.414-04	-.179-02	.117-05	-.247-01	.154-03
.40	-.338-01	.493-03	.551-04	-.202-02	.155-05	-.254-01	.164-03
.50	-.372-01	.626-03	.696-04	-.223-02	.195-05	-.261-01	.173-03
.70	-.426-01	.907-03	.100-03	-.256-02	.278-05	-.273-01	.192-03
1.00	-.477-01	.134-02	.145-03	-.288-02	.401-05	-.290-01	.221-03
TOTAL M - SHELL							
.02	.394-03	.119-03	-.819-05	-.114-02	.840-06	-.226-01	.129-03
.05	.119-02	.200-03	-.260-04	-.167-02	.225-05	-.231-01	.137-03
.10	.354-02	.308-03	-.546-04	-.246-02	.461-05	-.240-01	.152-03
.15	.644-02	.402-03	-.622-04	-.315-02	.701-05	-.249-01	.167-03
.20	.959-02	.493-03	-.111-03	-.381-02	.956-05	-.257-01	.180-03
.30	.161-01	.680-03	-.172-03	-.506-02	.153-04	-.272-01	.205-03
.40	.228-01	.876-03	-.241-03	-.627-02	.217-04	-.285-01	.226-03
.50	.294-01	.108-02	-.315-03	-.745-02	.288-04	-.295-01	.244-03
.70	.421-01	.149-02	-.472-03	-.976-02	.441-04	-.314-01	.274-03
1.00	.588-01	.208-02	-.708-03	-.127-01	.677-04	-.335-01	.310-03

TABLE 2.4.09

Z=92

DC ICC F4, h4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
K - SHELL							
.30	.103+00	.716-02	-.286-02	-.211-01	.286-03	-.411-01	.422-03
.40	.108+00	.692-02	-.277-02	-.223-01	.270-03	-.414-01	.428-03
.50	.112+00	.670-02	-.269-02	-.231-01	.270-03	-.416-01	.434-03
.70	.117+00	.631-02	-.255-02	-.241-01	.257-03	-.421-01	.445-03
1.00	.119+00	.539-02	-.239-02	-.246-01	.242-03	-.426-01	.460-03
L1 - SUBSHELL							
.05	.615-01	.120-02	-.479-03	-.121-01	.478-04	-.451-01	.508-03
.10	.828-01	.199-02	-.795-03	-.164-01	.794-04	-.452-01	.511-03
.15	.102+00	.283-02	-.113-02	-.203-01	.113-03	-.453-01	.514-03
.20	.118+00	.366-02	-.147-02	-.236-01	.147-03	-.455-01	.517-03
.30	.142+00	.509-02	-.204-02	-.285-01	.205-03	-.457-01	.523-03
.40	.156+00	.610-02	-.245-02	-.314-01	.247-03	-.460-01	.530-03
.50	.165+00	.675-02	-.272-02	-.329-01	.274-03	-.462-01	.536-03
.70	.166+00	.732-02	-.296-02	-.338-01	.300-03	-.468-01	.548-03
1.00	.163+00	.741-02	-.302-02	-.335-01	.308-03	-.475-01	.565-03
L2 - SUBSHELL							
.05	.254-01	.162-03	-.696-04	-.547-02	.749-05	-.821-02	.169-04
.10	.261-01	.197-03	-.848-04	-.604-02	.913-05	-.898-02	.202-04
.15	.303-01	.230-03	-.993-04	-.654-02	.107-04	-.967-02	.235-04
.20	.324-01	.263-03	-.115-03	-.699-02	.122-04	-.103-01	.266-04
.30	.361-01	.327-03	-.141-03	-.780-02	.153-04	-.115-01	.329-04
.40	.394-01	.390-03	-.169-03	-.853-02	.183-04	-.125-01	.391-04
.50	.424-01	.453-03	-.197-03	-.920-02	.213-04	-.135-01	.454-04
.70	.478-01	.579-03	-.252-03	-.104-01	.275-04	-.172-01	.580-04
1.00	.550-01	.770-03	-.337-03	-.121-01	.370-04	-.176-01	.776-04
L3 - SUBSHELL							
.05	-.295-01	.382-03	-.362-04	.132-02	.864-06	-.251-01	.158-03
.10	-.253-01	.521-03	-.497-04	.148-02	.119-05	-.254-01	.161-03
.15	-.365-01	.669-03	-.640-04	.162-02	.154-05	-.257-01	.165-03
.20	-.391-01	.824-03	-.791-04	.173-02	.191-05	-.259-01	.168-03
.30	-.432-01	.116-02	-.112-03	.189-02	.274-05	-.265-01	.176-03
.40	-.457-01	.152-02	-.148-03	.198-02	.364-05	-.270-01	.183-03
.50	-.469-01	.190-02	-.187-03	.200-02	.462-05	-.275-01	.190-03
.70	-.461-01	.263-02	-.267-03	.189-02	.670-05	-.285-01	.203-03
TOTAL L - SHELL							
1.00	-.396-01	.378-02	-.355-03	.146-02	.959-05	-.299-01	.227-03
.05	-.728-02	.294-03	-.501-04	-.142-02	.557-05	-.253-01	.161-03
.10	.184-02	.360-03	-.777-04	-.267-02	.647-05	-.266-01	.184-03
.15	.652-02	.449-03	-.107-03	-.373-02	.931-05	-.278-01	.205-03
.20	.107-01	.545-03	-.139-03	-.452-02	.125-04	-.289-01	.226-03
.30	.186-01	.760-03	-.214-03	-.599-02	.198-04	-.309-01	.261-03
.40	.264-01	.991-03	-.299-03	-.742-02	.283-04	-.323-01	.291-03
.50	.339-01	.123-02	-.391-03	-.881-02	.377-04	-.337-01	.316-03
.70	.481-01	.173-02	-.589-03	-.114-01	.580-04	-.358-01	.356-03
1.00	.667-01	.245-02	-.688-03	-.150-01	.891-04	-.382-01	.402-03

TABLE 2.4.09 (CONTINUED)

Z=92

DC 100 E4,14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(E4)	C2(E4)
M1 - SUBSHELL							
.02	.172-00	.862-02	-.344-02	-.345-01	.344-03	-.457-01	.523-03
.05	.179-00	.420-02	-.163-02	-.256-01	.167-03	-.458-01	.525-03
.10	.118+00	.355-02	-.145-02	-.235-01	.145-03	-.460-01	.528-03
.15	.124+00	.398-02	-.159-02	-.248-01	.159-03	-.461-01	.531-03
.20	.133-00	.448-02	-.179-02	-.265-01	.180-03	-.462-01	.534-03
.30	.148-00	.549-02	-.220-02	-.297-01	.221-03	-.465-01	.541-03
.40	.158-00	.627-02	-.252-02	-.319-01	.254-03	-.468-01	.547-03
.50	.164-00	.682-02	-.275-02	-.332-01	.277-03	-.470-01	.553-03
.70	.168-00	.739-02	-.299-02	-.342-01	.303-03	-.476-01	.566-03
1.00	.166-00	.757-02	-.308-02	-.341-01	.314-03	-.483-01	.584-03
M2 - SUBSHELL							
.02	.341-01	.291-03	-.125-03	-.733-02	.135-04	-.119-01	.356-04
.05	.334-01	.278-03	-.120-03	-.718-02	.129-04	-.113-01	.372-04
.10	.342-01	.293-03	-.126-03	-.737-02	.136-04	-.112-01	.375-04
.15	.356-01	.317-03	-.137-03	-.768-02	.148-04	-.117-01	.341-04
.20	.371-01	.345-03	-.149-03	-.801-02	.161-04	-.121-01	.365-04
.30	.401-01	.404-03	-.175-03	-.868-02	.189-04	-.124-01	.418-04
.40	.430-01	.465-03	-.202-03	-.933-02	.219-04	-.138-01	.478-04
.50	.458-01	.527-03	-.229-03	-.994-02	.249-04	-.147-01	.539-04
.70	.502-01	.654-03	-.285-03	-.111-01	.310-04	-.163-01	.654-04
1.00	.577-01	.846-03	-.371-03	-.127-01	.406-04	-.185-01	.860-04
M3 - SUBSHELL							
.02	-.389-01	.687-03	-.651-04	.173-02	.155-05	-.233-01	.160-03
.05	-.384-01	.691-03	-.656-04	.171-02	.157-05	-.255-01	.165-03
.10	-.402-01	.800-03	-.763-04	.178-02	.183-05	-.258-01	.166-03
.15	-.423-01	.945-03	-.905-04	.187-02	.218-05	-.261-01	.170-03
.20	-.443-01	.111-02	-.106-03	.195-02	.257-05	-.263-01	.173-03
.30	-.472-01	.146-02	-.141-03	.206-02	.344-05	-.268-01	.181-03
.40	-.490-01	.164-02	-.180-03	.211-02	.441-05	-.274-01	.188-03
.50	-.496-01	.224-02	-.220-03	.210-02	.545-05	-.279-01	.195-03
.70	-.478-01	.305-02	-.304-03	.194-02	.763-05	-.283-01	.210-03
1.00	-.403-01	.418-02	-.426-03	.145-02	.110-04	-.303-01	.233-03

TABLE 2.7.09 (CONTINUED)

Z=52

DC ICC L4,12

K	A1(E4)	A2(E4)	A3(E4)	A4(L4)	A5(E4)	C1(M4)	C2(M4)
M4 - SUBSHELL							
.02	.242-01	.147-03	-.174-04	-.144-02	.517-06	-.358-02	.323-05
.05	.278-01	.194-03	-.230-04	-.165-02	.685-06	-.409-02	.422-05
.10	.327-01	.271-03	-.324-04	-.195-02	.965-06	-.481-02	.582-05
.15	.370-01	.351-03	-.419-04	-.221-02	.125-05	-.543-02	.745-05
.20	.408-01	.433-03	-.519-04	-.245-02	.156-05	-.600-02	.911-05
.30	.478-01	.605-03	-.731-04	-.289-02	.221-05	-.704-02	.126-04
.40	.540-01	.780-03	-.958-04	-.329-02	.291-05	-.799-02	.163-04
.50	.596-01	.982-03	-.120-03	-.365-02	.367-05	-.868-02	.202-04
.70	.693-01	.139-02	-.172-03	-.431-02	.532-05	-.105-01	.285-04
1.00	.811-01	.205-02	-.258-03	-.516-02	.813-05	-.128-01	.424-04
M5 - SUBSHELL							
.02	-.175-01	.108-03	.127-04	-.108-02	.379-06	-.254-01	.162-03
.05	-.200-01	.144-03	.170-04	-.124-02	.505-06	-.257-01	.165-03
.10	-.236-01	.205-03	.245-04	-.146-02	.719-06	-.261-01	.171-03
.15	-.267-01	.270-03	.318-04	-.165-02	.972-06	-.266-01	.177-03
.20	-.296-01	.328-03	.398-04	-.183-02	.117-05	-.270-01	.183-03
.30	-.346-01	.485-03	.567-04	-.214-02	.167-05	-.278-01	.195-03
.40	-.389-01	.643-03	.769-04	-.241-02	.220-05	-.286-01	.207-03
.50	-.427-01	.811-03	.941-04	-.265-02	.275-05	-.294-01	.219-03
.70	-.480-01	.117-02	.134-03	-.304-02	.389-05	-.308-01	.244-03
1.00	-.546-01	.171-02	.194-03	-.344-02	.557-05	-.327-01	.281-03
TOTAL M - SHELL							
.02	.697-03	.166-03	-.115-04	-.142-02	.126-05	-.255-01	.163-02
.05	.208-02	.277-03	-.375-04	-.211-02	.344-05	-.260-01	.174-03
.10	.539-02	.425-03	-.795-04	-.315-02	.710-05	-.271-01	.193-03
.15	.913-02	.549-03	-.119-03	-.405-02	.107-04	-.281-01	.212-03
.20	.130-01	.666-03	-.158-03	-.487-02	.144-04	-.291-01	.230-03
.30	.209-01	.898-03	-.241-03	-.671-02	.224-04	-.308-01	.263-03
.40	.286-01	.114-02	-.329-03	-.785-02	.312-04	-.323-01	.291-03
.50	.360-01	.138-02	-.423-03	-.924-02	.467-04	-.336-01	.315-03
.70	.500-01	.196-02	-.619-03	-.118-01	.607-04	-.358-01	.256-03
1.00	.681-01	.255-02	-.910-03	-.153-01	.910-04	-.383-01	.404-03

TABLE 2.4.10

Z=96

DC ICL E4,14

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(K4)	C2(K4)
K - SHELL							
.30	.132-00	.906-02	-.378-02	-.282-01	.395-03	-.469-01	.551-03
.40	.135-00	.867-02	-.362-02	-.289-01	.379-03	-.472-01	.558-03
.50	.137-00	.834-02	-.349-02	-.293-01	.366-03	-.476-01	.566-03
.70	.139-00	.782-02	-.329-02	-.290-01	.346-03	-.481-01	.580-03
1.00	.159-00	.726-02	-.307-02	-.301-01	.325-03	-.489-01	.601-03
L1 - SUBSHELL							
.10	.943-01	.256-02	-.107-02	-.195-01	.112-03	-.528-01	.697-03
.15	.113+00	.350-02	-.146-02	-.235-01	.155-03	-.529-01	.701-03
.20	.130-00	.441-02	-.184-02	-.269-01	.193-03	-.531-01	.705-03
.30	.154-00	.598-02	-.250-02	-.321-01	.262-03	-.534-01	.715-03
.40	.169-00	.714-02	-.300-02	-.355-01	.314-03	-.537-01	.721-03
.50	.178-00	.793-02	-.334-02	-.374-01	.351-03	-.540-01	.729-03
.70	.184-00	.877-02	-.370-02	-.391-01	.391-03	-.546-01	.745-03
1.00	.184-00	.909-02	-.386-02	-.394-01	.410-03	-.554-01	.769-03
L2 - SUBSHELL							
.05	.313-01	.246-03	-.110-03	-.703-02	.124-04	-.105-01	.279-04
.10	.342-01	.293-03	-.132-03	-.769-02	.146-04	-.115-01	.329-04
.15	.368-01	.339-03	-.152-03	-.827-02	.171-04	-.123-01	.376-04
.20	.391-01	.383-03	-.172-03	-.879-02	.194-04	-.130-01	.422-04
.30	.432-01	.468-03	-.211-03	-.973-02	.238-04	-.143-01	.513-04
.40	.468-01	.552-03	-.249-03	-.106-01	.281-04	-.155-01	.602-04
.50	.502-01	.634-03	-.287-03	-.114-01	.325-04	-.163-01	.692-04
.70	.562-01	.799-03	-.363-03	-.123-01	.412-04	-.186-01	.872-04
1.00	.642-01	.105-02	-.478-03	-.147-01	.546-04	-.214-01	.115-03
L3 - SUBSHELL							
.05	-.229-01	.232-03	-.240-04	.115-02	.622-05	-.182-01	.828-04
.10	-.255-01	.311-03	-.322-04	.128-02	.837-05	-.184-01	.847-04
.15	-.273-01	.395-03	-.411-04	.139-02	.107-05	-.185-01	.865-04
.20	-.297-01	.484-03	-.504-04	.148-02	.131-05	-.188-01	.884-04
.30	-.324-01	.674-03	-.705-04	.161-02	.185-05	-.192-01	.920-04
.40	-.340-01	.877-03	-.920-04	.168-02	.242-05	-.195-01	.957-04
.50	-.345-01	.109-02	-.115-03	.169-02	.303-05	-.199-01	.993-04
.70	-.335-01	.151-02	-.161-03	.160-02	.426-05	-.206-01	.107-03
1.00	-.280-01	.211-02	-.227-03	.126-02	.613-05	-.216-01	.118-03
TOTAL L - SHELL							
.05	-.416-02	.237-03	-.536-04	-.168-02	.467-05	-.182-01	.828-04
.10	.924-02	.325-03	-.992-04	-.397-02	.985-05	-.203-01	.119-03
.15	.149-01	.424-03	-.139-03	-.508-02	.141-04	-.223-01	.153-03
.20	.198-01	.532-03	-.182-03	-.605-02	.187-04	-.242-01	.187-03
.30	.287-01	.772-03	-.279-03	-.783-02	.290-04	-.276-01	.248-03
.40	.371-01	.104-02	-.389-03	-.951-02	.407-04	-.305-01	.300-03
.50	.452-01	.132-02	-.508-03	-.111-01	.534-04	-.330-01	.345-03
.70	.601-01	.191-02	-.759-03	-.141-01	.805-04	-.370-01	.417-03
1.00	.795-01	.277-02	-.114-02	-.181-01	.122-03	-.412-01	.496-03

TABLE 2.4.10 (CONTINUED)

Z=96

DC ICC E4, M4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
M1 - SUBSHELL							
.02	.189-00	.110-01	-.458-02	-.398-01	.478-03	-.529-01	.700-03
.05	.151-00	.571-02	-.238-02	-.314-01	.248-03	-.530-01	.702-03
.10	.135-00	.471-02	-.197-02	-.281-01	.205-03	-.531-01	.705-03
.15	.139-00	.495-02	-.207-02	-.285-01	.216-03	-.533-01	.710-03
.20	.146-00	.542-02	-.227-02	-.304-01	.237-03	-.534-01	.714-03
.30	.160-00	.643-02	-.269-02	-.335-01	.282-03	-.537-01	.722-03
.40	.171-00	.728-02	-.306-02	-.358-01	.321-03	-.540-01	.730-03
.50	.178-00	.792-02	-.333-02	-.374-01	.351-03	-.543-01	.738-03
.70	.184-00	.867-02	-.366-02	-.390-01	.387-03	-.549-01	.754-03
1.00	.185-00	.905-02	-.385-02	-.396-01	.409-03	-.557-01	.777-03
M2 - SUBSHELL							
.02	.423-01	.448-03	-.201-03	-.948-02	.225-04	-.154-01	.594-04
.05	.412-01	.424-03	-.190-03	-.924-02	.213-04	-.146-01	.584-04
.10	.418-01	.438-03	-.197-03	-.939-02	.221-04	-.145-01	.526-04
.15	.432-01	.467-03	-.210-03	-.971-02	.236-04	-.148-01	.540-04
.20	.448-01	.502-03	-.226-03	-.101-01	.254-04	-.152-01	.579-04
.30	.480-01	.577-03	-.260-03	-.103-01	.293-04	-.161-01	.653-04
.40	.510-01	.654-03	-.295-03	-.119-01	.333-04	-.171-01	.733-04
.50	.540-01	.733-03	-.332-03	-.122-01	.375-04	-.180-01	.816-04
.70	.595-01	.893-03	-.405-03	-.135-01	.460-04	-.199-01	.988-04
1.00	.669-01	.113-02	-.518-03	-.153-01	.591-04	-.224-01	.125-03
M3 - SUBSHELL							
.02	-.475-01	.105-02	-.104-03	.221-02	.259-05	-.286-01	.204-03
.05	-.465-01	.104-02	-.103-03	.216-02	.257-05	-.288-01	.207-03
.10	-.481-01	.118-02	-.117-03	.223-02	.294-05	-.291-01	.212-03
.15	-.503-01	.137-02	-.137-03	.232-02	.345-05	-.294-01	.216-03
.20	-.523-01	.159-02	-.159-03	.241-02	.403-05	-.297-01	.221-03
.30	-.551-01	.206-02	-.209-03	.251-02	.531-05	-.303-01	.230-03
.40	-.566-01	.257-02	-.262-03	.255-02	.672-05	-.309-01	.239-03
.50	-.568-01	.310-02	-.318-03	.252-02	.822-05	-.314-01	.248-03
.70	-.538-01	.415-02	-.433-03	.228-02	.114-04	-.325-01	.267-03
1.00	-.440-01	.562-02	-.598-03	.163-02	.160-04	-.341-01	.296-03

TABLE 2.4.10 (CONTINUED)

Z=96

DC ICC E4, M4

K	A1(E4)	A2(E4)	A3(E4)	A4(E4)	A5(E4)	C1(M4)	C2(M4)
M4 - SUBSHELL							
.02	.288-01	.207-03	-.256-04	-.178-02	.790-06	-.441-02	.489-05
.05	.327-01	.268-03	-.332-04	-.202-02	.103-05	-.499-02	.526-05
.10	.381-01	.369-03	-.458-04	-.237-02	.142-05	-.580-02	.847-05
.15	.429-01	.471-03	-.586-04	-.267-02	.182-05	-.651-02	.107-04
.20	.472-01	.576-03	-.719-04	-.295-02	.224-05	-.716-02	.129-04
.30	.549-01	.796-03	-.999-04	-.345-02	.313-05	-.834-02	.176-04
.40	.618-01	.103-02	-.130-03	-.391-02	.410-05	-.942-02	.226-04
.50	.680-01	.127-02	-.161-03	-.433-02	.512-05	-.104-01	.277-04
.70	.788-01	.178-02	-.229-03	-.510-02	.737-05	-.123-01	.387-04
1.00	.920-01	.261-02	-.341-03	-.608-02	.111-04	-.149-01	.570-04
M5 - SUBSHELL							
.02	-.209-01	.153-03	.189-04	-.134-02	.583-06	-.287-01	.206-03
.05	-.238-01	.201-03	.247-04	-.152-02	.764-06	-.290-01	.211-03
.10	-.278-01	.282-03	.346-04	-.178-02	.107-05	-.295-01	.218-03
.15	-.313-01	.366-03	.449-04	-.201-02	.136-05	-.300-01	.226-03
.20	-.345-01	.454-03	.556-04	-.221-02	.171-05	-.305-01	.233-03
.30	-.401-01	.643-03	.783-04	-.256-02	.240-05	-.314-01	.248-03
.40	-.450-01	.846-03	.103-03	-.289-02	.313-05	-.323-01	.263-03
.50	-.493-01	.106-02	.128-03	-.317-02	.389-05	-.332-01	.279-03
.70	-.563-01	.151-02	.181-03	-.363-02	.546-05	-.348-01	.310-03
1.00	-.632-01	.221-02	.261-03	-.410-02	.778-05	-.370-01	.357-03
TOTAL M - SHELL							
.02	.109-02	.232-03	-.161-04	-.177-02	.190-05	-.267-01	.208-03
.05	.323-02	.335-03	-.544-04	-.266-02	.529-05	-.294-01	.221-03
.10	.781-02	.590-03	-.117-03	-.403-02	.110-04	-.306-01	.246-03
.15	.126-01	.757-03	-.174-03	-.520-02	.165-04	-.318-01	.271-03
.20	.175-01	.909-03	-.228-03	-.625-02	.219-04	-.329-01	.295-03
.30	.268-01	.120-02	-.339-03	-.813-02	.332-04	-.350-01	.339-03
.40	.357-01	.149-02	-.455-03	-.986-02	.453-04	-.368-01	.377-03
.50	.442-01	.178-02	-.575-03	-.115-01	.579-04	-.383-01	.410-03
.70	.595-01	.235-02	-.820-03	-.144-01	.842-04	-.409-01	.466-03
1.00	.790-01	.315-02	-.118-02	-.183-01	.123-03	-.438-01	.529-03

TABLE 3.1
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PARTICLE PARAMETER

B2

(STATIC)

OF THE

K AND L SHELL

FOR

E1, K2, E3, K4

TRANSITIONS

TABLE 3.1.01

Zero

PP 82 K AND L SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.10	-.1989+01	.5201-01	.1602+01	-.6297-01	.1509+01	.2012-00	.1078+01
.15	-.1919+01	.9321-01	.1379+01	.1558-01	.1299+01	.2460-00	.1076+01
.20	-.1917+01	.1765-00	.1260+01	.2117-00	.1287+01	.2585-00	.1071+01
.30	-.1811+01	.1989-00	.1324+01	.3161-00	.1262+01	.3880-00	.1063+01
.40	-.1708+01	.2527-00	.1297+01	.3969-00	.1238+01	.4395-00	.1060+01
.50	-.1588+01	.3118-00	.1275+01	.4588-00	.1210+01	.5027-00	.1056+01
.70	-.1342+01	.4045-00	.1245+01	.5082-00	.1163+01	.6046-00	.1050+01
1.00	-.1000+01	.5114-00	.1215+01	.5791-00	.1110+01	.7059-00	.1044+01
L1 - SUBSHELL							
.02	-.1979+01	-.3718-02	.1395+01	-.1019+00	.1523+01	.1278-00	.1079+01
.05	-.1976+01	.5119-01	.1602+01	.6250-01	.1283+01	.2857-00	.1081+01
.10	-.1956+01	.6854-01	.1396+01	.4753-00	.1026+01	.7081-00	.1061+01
.15	-.1934+01	.1064+00	.1385+01	.5207-00	.1050+01	.6744-00	.1079+01
.20	-.1895+01	.1403-00	.1368+01	.4565-00	.1125+01	.5951-00	.1077+01
.30	-.1796+01	.2044-00	.1339+01	.5023-00	.1136+01	.5614-00	.1072+01
.40	-.1688+01	.2616-00	.1315+01	.5538-00	.1152+01	.5787-00	.1068+01
.50	-.1571+01	.3130-00	.1294+01	.5732-00	.1141+01	.6078-00	.1064+01
.70	-.1312+01	.4028-00	.1262+01	.6428-00	.1113+01	.6879-00	.1057+01
1.00	-.1000+01	.5058-00	.1227+01	.7192-00	.1079+01	.7369-00	.1050+01
L2 - SUBSHELL							
.02	-.1355+01	.3892-00	.1293+01	.6325-00	.1144+01	-.7722-01	.1065+01
.05	-.1171+01	.4287-00	.1293+01	.6596-00	.1127+01	.4207-00	.1065+01
.10	-.9324-00	.4806-00	.1293+01	.6881-00	.1109+01	.5609-00	.1065+01
.15	-.7528-00	.5229-00	.1293+01	.7015-00	.1099+01	.5972-00	.1065+01
.20	-.6699-00	.5476-00	.1293+01	.7118-00	.1092+01	.6246-00	.1065+01
.30	-.5193-00	.5780-00	.1292+01	.7241-00	.1082+01	.6602-00	.1064+01
.40	-.4373-00	.5991-00	.1290+01	.7327-00	.1076+01	.6739-00	.1064+01
.50	-.3765-00	.6135-00	.1289+01	.7391-00	.1071+01	.6869-00	.1064+01
.70	-.2925-00	.6344-00	.1285+01	.7483-00	.1065+01	.7019-00	.1063+01
1.00	-.2018-00	.6558-00	.1280+01	.7580-00	.1060+01	.7163-00	.1063+01
L3 - SUBSHELL							
.02	-.1433+01	.3794-01	.1297-00	.5889-01	.1143+01	.5512-00	.9248-00
.05	-.1203+01	.6145-01	.8829-01	.5101-01	.1124+01	.1921-01	.9154-00
.10	-.8199-00	.5080-01	.1026-01	.9882-01	.1103+01	.4794-01	.9018-00
.15	-.6528-00	.9583-01	-.6380-01	.1308-00	.1088+01	.7548-01	.8917-00
.20	-.5073-00	.1087+00	-.1143+00	.1767-00	.1073+01	.1028+00	.8829-00
.30	-.3268-00	.1341-00	-.1792-00	.2446-00	.1051+01	.1535-00	.8682-00
.40	-.1650-00	.1539-00	-.2350-00	.3221-00	.1029+01	.2094-00	.8570-00
.50	-.7535-01	.1788-00	-.2714-00	.3945-00	.1005+01	.2583-00	.8473-00
.70	-.9674-01	.2277-00	-.3170-00	.5232-00	.9527-00	.3462-00	.8305-00
1.00	-.2785-00	.3062-00	-.3278-00	.6766-00	.8920-00	.4615-00	.8106-00
TOTAL L - SHELL							
.02	-.1825+01	.4622-01	.8963-00	.7493-01	.1144+01	.3730-00	.8263-00
.05	-.1515+01	.5146-01	.9951-00	.1206+00	.1126+01	.4543-01	.8298-00
.10	-.1319+01	.1172+00	.1085+01	.1120-00	.1105+01	.1170+00	.9388-00
.15	-.1215+01	.1436-00	.1130+01	.2254-00	.1093+01	.1732-00	.9495-00
.20	-.1015+01	.1704-00	.1160+01	.2640-00	.1080+01	.2276-00	.9591-00
.30	-.1684+01	.2351-00	.1191+01	.3295-00	.1076+01	.3180-00	.9748-00
.40	-.1424+01	.2523-00	.1203+01	.3914-00	.1069+01	.3924-00	.9868-00
.50	-.1349+01	.2858-00	.1207+01	.4475-00	.1065+01	.4560-00	.9956-00
.70	-.1163+01	.4092-00	.1208+01	.5455-00	.1057+01	.5591-00	.1007+01
1.00	-.8866-00	.5051-00	.1193+01	.6514-00	.1045+01	.6678-00	.1017+01

TABLE 3.1.02

Z=64

PP 62 K AND L SHELL

K	K1	K1/62	K2	K2/65	K3	K3/64	K4
K - SHELL							
.15	-.1938+01	.9015+01	.1589+01	.1139+00	.1250+01	.2736+00	.1075+01
.20	-.1916+01	.1236+00	.1371+01	.2080+00	.1270+01	.3174+00	.1072+01
.30	-.1820+01	.1928+00	.1359+01	.5203+00	.1248+01	.3980+00	.1067+01
.40	-.1703+01	.2530+00	.1315+01	.4114+00	.1219+01	.4690+00	.1063+01
.50	-.1553+01	.3093+00	.1292+01	.4737+00	.1192+01	.5309+00	.1059+01
.70	-.1537+01	.4012+00	.1265+01	.5815+00	.1142+01	.6233+00	.1053+01
1.00	-.1000+01	.5054+00	.1227+01	.6888+00	.1094+01	.7247+00	.1047+01
L1 - SUBSHELL							
.05	-.1971+01	.2036+01	.1401+01	.4267+01	.1291+01	.2632+00	.1080+01
.10	-.1963+01	.6932+01	.1399+01	.5689+00	.1110+01	.5028+00	.1081+01
.15	-.1929+01	.1067+00	.1389+01	.5573+00	.1002+01	.7394+00	.1080+01
.20	-.1899+01	.1408+00	.1378+01	.5514+00	.1050+01	.6900+00	.1078+01
.30	-.1783+01	.2047+00	.1351+01	.5336+00	.1102+01	.6356+00	.1074+01
.40	-.1679+01	.2613+00	.1329+01	.5782+00	.1109+01	.6368+00	.1070+01
.50	-.1562+01	.3123+00	.1310+01	.6077+00	.1104+01	.6346+00	.1067+01
.70	-.1325+01	.3994+00	.1279+01	.6644+00	.1083+01	.6996+00	.1060+01
1.00	-.1000+01	.4994+00	.1245+01	.7302+00	.1059+01	.7566+00	.1053+01
L2 - SUBSHELL							
.02	-.1356+01	.3943+00	.1297+01	.6294+00	.1143+01	-.3100+00	.1065+01
.05	-.1227+01	.4138+00	.1296+01	.6522+00	.1131+01	.3750+00	.1063+01
.10	-.9767+00	.4700+00	.1296+01	.6769+00	.1113+01	.5375+00	.1065+01
.15	-.8219+00	.5070+00	.1296+01	.6930+00	.1104+01	.5785+00	.1065+01
.20	-.7177+00	.5320+00	.1296+01	.7032+00	.1096+01	.6085+00	.1065+01
.30	-.5828+00	.5645+00	.1295+01	.7153+00	.1088+01	.6480+00	.1066+01
.40	-.4930+00	.5855+00	.1294+01	.7240+00	.1080+01	.6651+00	.1064+01
.50	-.4372+00	.6004+00	.1292+01	.7304+00	.1075+01	.6769+00	.1064+01
.70	-.3690+00	.6218+00	.1289+01	.7395+00	.1069+01	.6928+00	.1064+01
1.00	-.2574+00	.6435+00	.1286+01	.7489+00	.1063+01	.7079+00	.1063+01
L3 - SUBSHELL							
.02	-.1428+01	.3350+01	.1200+00	.4390+01	.1144+01	-.1053+02	.9251+00
.05	-.1276+01	.5912+01	.1028+00	.4246+01	.1128+01	.1840+01	.9173+00
.10	-.9731+00	.7732+01	.8702+01	.8186+01	.1107+01	.4643+01	.9052+00
.15	-.7371+00	.9124+01	-.3073+01	.1168+00	.1093+01	.7432+01	.8953+00
.20	-.5669+00	.1030+00	-.7746+01	.1129+00	.1080+01	.1015+00	.8876+00
.30	-.3985+00	.1269+00	-.1387+00	.2126+00	.1055+01	.1567+00	.8737+00
.40	-.2693+00	.1469+00	-.1916+00	.2867+00	.1053+01	.2073+00	.8630+00
.50	-.1939+00	.1683+00	-.2505+00	.3568+00	.1009+01	.2536+00	.8537+00
.70	.4481+01	.2148+00	-.2801+00	.4836+00	.9620+00	.3441+00	.8370+00
1.00	.2374+00	.2909+00	-.3005+00	.6392+00	.8946+00	.4854+00	.8183+00
TOTAL L - SHELL							
.05	-.1526+01	.7815+01	.9857+00	.1112+00	.1130+01	.3846+01	.9294+00
.10	-.1512+01	.1182+00	.1073+01	.1711+00	.1110+01	.1071+00	.9372+00
.15	-.1501+01	.1387+00	.1126+01	.2130+00	.1097+01	.1632+00	.9471+00
.20	-.1496+01	.1782+00	.1159+01	.2441+00	.1088+01	.2177+00	.9566+00
.30	-.1460+01	.2332+00	.1193+01	.3205+00	.1074+01	.3103+00	.9722+00
.40	-.1400+01	.2822+00	.1210+01	.3826+00	.1068+01	.3854+00	.9846+00
.50	-.1323+01	.3273+00	.1217+01	.4590+00	.1060+01	.4301+00	.9941+00
.70	-.1146+01	.4058+00	.1216+01	.5332+00	.1049+01	.5345+00	.1007+01
1.00	-.0797+00	.4936+00	.1203+01	.6624+00	.1035+01	.6637+00	.1017+01

TABLE 3.1.03

Z=68

PF 32 K AND L SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.15	-.1546+01	.8448-01	.1397+01	.4734-01	.1278+01	.3060-00	.1077+01
.20	-.1297+01	.1250+00	.1380+01	.1887-00	.1263+01	.3503-00	.1074+01
.30	-.1217+01	.1902-00	.1352+01	.3270-00	.1231+01	.4313-00	.1069+01
.40	-.1097+01	.2533-00	.1326+01	.4163-00	.1200+01	.5017-00	.1065+01
.50	-.1076+01	.3073-00	.1307+01	.4878-00	.1172+01	.5610-00	.1062+01
.70	-.1032+01	.3977-00	.1276+01	.5933-00	.1123+01	.6524-00	.1056+01
1.00	-.1000+01	.4994-00	.1244+01	.6923-00	.1073+01	.7399-00	.1050+01
L1 - SUBSHELL							
.05	-.1965+01	.2550-01	.1400+01	.7525-02	.1244+01	.2531-00	.1020+01
.10	-.1939+01	.7296-01	.1401+01	.2817-00	.1171+01	.5140-00	.1081+01
.15	-.1924+01	.1066+00	.1393+01	.4831-00	.1023+01	.7129-00	.1080+01
.20	-.1883+01	.1413-00	.1384+01	.5638-00	.1003+01	.7401-00	.1079+01
.30	-.1779+01	.2053-00	.1362+01	.6030-00	.1047+01	.7009-00	.1076+01
.40	-.1669+01	.2611-00	.1342+01	.6139-00	.1064+01	.6904-00	.1072+01
.50	-.1552+01	.3112-00	.1323+01	.6389-00	.1066+01	.6921-00	.1069+01
.70	-.1319+01	.3961-00	.1295+01	.6831-00	.1057+01	.7283-00	.1063+01
1.00	-.1000+01	.4931-00	.1262+01	.7374-00	.1040+01	.7714-00	.1057+01
L2 - SUBSHELL							
.05	-.1264+01	.4048-00	.1300+01	.6429-00	.1134+01	.3321-00	.1065+01
.10	-.1041+01	.4330-00	.1300+01	.6086-00	.1117+01	.5126-00	.1066+01
.15	-.8880-00	.4915-00	.1299+01	.6846-00	.1102+01	.5588-00	.1063+01
.20	-.7838-00	.5167-00	.1299+01	.6946-00	.1101+01	.5920-00	.1065+01
.30	-.6462-00	.5500-00	.1298+01	.7035-00	.1090+01	.6352-00	.1063+01
.40	-.5892-00	.5716-00	.1297+01	.7131-00	.1084+01	.6537-00	.1063+01
.50	-.4983-00	.5871-00	.1296+01	.7215-00	.1079+01	.6665-00	.1065+01
.70	-.4064-00	.6090-00	.1293+01	.7305-00	.1073+01	.6833-00	.1064+01
1.00	-.3136-00	.6310-00	.1289+01	.7396-00	.1067+01	.6992-00	.1065+01
L3 - SUBSHELL							
.05	-.1243+01	.5735-01	.1126+00	.3276-01	.1132+01	.1731-01	.9194-00
.10	-.1061+01	.8178-01	.9983-01	.4015-01	.1111+01	.4723-01	.9082-00
.15	-.8217-00	.8811-01	-.1183-02	.9506-01	.1097+01	.7340-01	.8995-00
.20	-.5889-00	.9901-01	-.4339-01	.1275-00	.1084+01	.1003+00	.8918-00
.30	-.4737-00	.1213+00	-.9994-01	.1800-00	.1059+01	.1353-00	.8787-00
.40	-.3178-00	.1399-00	-.1503-00	.2505-00	.1037+01	.2054-00	.8685-00
.50	-.1965-00	.1598-00	-.1808-00	.3178-00	.1013+01	.2530-00	.8587-00
.70	-.8937-02	.2038-00	-.2404-00	.4416-00	.9638-00	.3403-00	.8464-00
1.00	.1931-00	.2773-00	-.2675-00	.5962-00	.8974-00	.4497-00	.8235-00
TOTAL L - SHELL							
.05	-.1536+01	.7511-01	.9782-00	.1012+00	.1134+01	.3244-01	.9290-00
.10	-.1303+01	.1182+00	.1070+01	.1519-00	.1114+01	.9939-01	.9359-00
.15	-.1492+01	.1475-00	.1121+01	.2042-00	.1102+01	.1555-00	.9431-00
.20	-.1481+01	.1777-00	.1137+01	.2433-00	.1092+01	.2076-00	.9541-00
.30	-.1440+01	.2332-00	.1158+01	.3113-00	.1076+01	.3011-00	.9697-00
.40	-.1379+01	.2818-00	.1217+01	.3722-00	.1066+01	.3769-00	.9825-00
.50	-.1302+01	.3261-00	.1226+01	.4283-00	.1057+01	.4421-00	.9925-00
.70	-.1131+01	.4025-00	.1230+01	.5237-00	.1044+01	.5471-00	.1006+01
1.00	-.8743-00	.4523-00	.1223+01	.6301-00	.1030+01	.6863-00	.1016+01

TABLE 3.1.04

Z=72

PP 32 K AND L SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.15	-.1936+01	.7991-01	.1405+01	-.6925-01	.1263+01	.3427-00	.1073+01
.20	-.1894+01	.1215+00	.1588+01	.1655-00	.1246+01	.3843-00	.1075+01
.30	-.1814+01	.1386-00	.1563+01	.3251-00	.1211+01	.4686-00	.1071+01
.40	-.1691+01	.2515-00	.1539+01	.4366-00	.1178+01	.5364-00	.1067+01
.50	-.1570+01	.5052-00	.1521+01	.4948-00	.1150+01	.5926-00	.1064+01
.70	-.1327+01	.8943-00	.1291+01	.6130-00	.1105+01	.6765-00	.1059+01
1.00	-.1000+01	.4938-00	.1260+01	.5939-00	.1062+01	.7540-00	.1053+01
L1 - SUBSHELL							
.05	-.1957+01	.2166-01	.1399+01	-.1626-01	.1295+01	.2491-00	.1080+01
.10	-.1932+01	.7226-01	.1402+01	.2180-00	.1206+01	.4343-00	.1081+01
.15	-.1900+01	.1103+00	.1397+01	.4026-00	.1079+01	.6446-00	.1080+01
.20	-.1876+01	.1616-00	.1389+01	.5281-00	.1010+01	.7300-00	.1079+01
.30	-.1770+01	.2060-00	.1371+01	.6177-00	.1009+01	.7405-00	.1077+01
.40	-.1659+01	.2613-00	.1353+01	.6350-00	.1026+01	.7312-00	.1074+01
.50	-.1542+01	.3105-00	.1337+01	.6558-00	.1033+01	.7330-00	.1071+01
.70	-.1311+01	.3932-00	.1310+01	.6545-00	.1052+01	.7312-00	.1066+01
1.00	-.1000+01	.4871-00	.1279+01	.7367-00	.1024+01	.7222-00	.1060+01
L2 - SUBSHELL							
.05	-.1305+01	.3953-00	.1303+01	.6564-00	.1137+01	.2703-00	.1066+01
.10	-.1100+01	.4612-00	.1303+01	.6603-00	.1121+01	.4847-00	.1066+01
.15	-.9512-00	.4753-00	.1303+01	.6764-00	.1112+01	.5381-00	.1066+01
.20	-.8480-00	.5017-00	.1303+01	.6862-00	.1105+01	.5748-00	.1066+01
.30	-.7093-00	.5353-00	.1302+01	.6976-00	.1094+01	.6218-00	.1065+01
.40	-.6294-00	.5575-00	.1301+01	.7062-00	.1088+01	.6418-00	.1065+01
.50	-.5339-00	.5736-00	.1300+01	.7124-00	.1083+01	.6556-00	.1065+01
.70	-.4642-00	.5961-00	.1298+01	.7212-00	.1077+01	.6734-00	.1065+01
1.00	-.3702-00	.6182-00	.1294+01	.7300-00	.1071+01	.6900-00	.1064+01
L3 - SUBSHELL							
.05	-.1407+01	.6190-01	.1216+00	.7978-02	.1154+01	.1710-01	.9208-00
.10	-.1143+01	.2070-01	.7825-01	.2456-01	.1115+01	.4592-01	.9107-00
.15	-.9065-00	.8644-01	.2439-01	.7393-01	.1101+01	.7267-01	.9028-00
.20	-.7526-00	.9662-01	.1254-01	.1022+00	.1089+01	.9335-01	.8957-00
.30	-.5520-00	.1180+00	.6332-01	.1474-00	.1063+01	.1559-00	.8832-00
.40	-.3899-00	.1348-00	.1195+00	.2133-00	.1041+01	.2036-00	.8736-00
.50	-.2629-00	.1533-00	.1472-00	.2775-00	.1017+01	.2507-00	.8631-00
.70	-.6352-01	.1950-00	.1938-00	.3973-00	.9692-00	.3268-00	.8505-00
1.00	.1455-00	.2658-00	.2311-00	.5498-00	.9004-00	.4446-00	.8324-00
TOTAL L - SHELL							
.05	-.1850+01	.7349-01	.9699-00	.8550-01	.1136+01	.2709-01	.9285-00
.10	-.1508+01	.1163+00	.1063+01	.1414-00	.1119+01	.9072-01	.9348-00
.15	-.1477+01	.1688-00	.1117+01	.1932-00	.1107+01	.1562-00	.9434-00
.20	-.1471+01	.1770-00	.1155+01	.2324-00	.1096+01	.1980-00	.9520-00
.30	-.1424+01	.2332-00	.1201+01	.3000-00	.1079+01	.2914-00	.9675-00
.40	-.1360+01	.2615-00	.1223+01	.3606-00	.1068+01	.3672-00	.9806-00
.50	-.1285+01	.3250-00	.1234+01	.4160-00	.1058+01	.4323-00	.9910-00
.70	-.1118+01	.3993-00	.1241+01	.5161-00	.1043+01	.5373-00	.1006+01
1.00	-.8705-00	.4862-00	.1238+01	.6150-00	.1027+01	.6465-00	.1019+01

TABLE 3.1.05

Z=76

PF 52 K AND L SHELL

K	E1	E1/m2	m2	m2/m3	E3	E3/m4	m4
K - SHELL							
.15	-.1919+01	.7286-01	.1404+01	-.3585-00	.1244+01	.3855-00	.1078+01
.20	-.1886+01	.1183+00	.1395+01	.1006+00	.1224+01	.4309-00	.1077+01
.30	-.1794+01	.1895-00	.1373+01	.3227-00	.1186+01	.5092-00	.1073+01
.40	-.1686+01	.2497-00	.1351+01	.4642-00	.1153+01	.5732-00	.1069+01
.50	-.1583+01	.3031-00	.1333+01	.5088-00	.1125+01	.6249-00	.1066+01
.70	-.1421+01	.3911-00	.1305+01	.6097-00	.1083+01	.6997-00	.1061+01
1.00	-.1006+01	.4880-00	.1275+01	.6962-00	.1047+01	.7663-00	.1055+01
L1 - SUBSHELL							
.05	-.1044+01	.1626-01	.1398+01	-.6228-01	.1298+01	.2500-00	.1079+01
.10	-.1922+01	.7121-01	.1402+01	.1700-00	.1227+01	.4160-00	.1081+01
.15	-.1891+01	.1109+00	.1399+01	.3284-00	.1128+01	.5783-00	.1081+01
.20	-.1837+01	.1490-00	.1393+01	.4815-00	.1049+01	.6830-00	.1080+01
.30	-.1759+01	.2069-00	.1378+01	.6105-00	.1001+01	.7452-00	.1078+01
.40	-.1648+01	.2817-00	.1363+01	.6356-00	.1004+01	.7509-00	.1075+01
.50	-.1552+01	.3100-00	.1349+01	.6600-00	.1010+01	.7536-00	.1073+01
.70	-.1504+01	.3905-00	.1324+01	.6965-00	.1013+01	.7655-00	.1068+01
1.00	-.1006+01	.4813-00	.1294+01	.7358-00	.1011+01	.7876-00	.1063+01
L2 - SUBSHELL							
.05	-.1335+01	.3879-00	.1307+01	.6303-00	.1139+01	.1950-00	.1066+01
.10	-.1156+01	.4281-00	.1307+01	.6528-00	.1125+01	.4350-00	.1068+01
.15	-.1038+01	.4566-00	.1307+01	.6682-00	.1116+01	.5155-00	.1066+01
.20	-.9097-00	.4872-00	.1306+01	.6778-00	.1109+01	.5567-00	.1066+01
.30	-.7718-00	.5219-00	.1306+01	.6887-00	.1099+01	.6072-00	.1066+01
.40	-.6814-00	.5436-00	.1306+01	.6970-00	.1092+01	.6294-00	.1066+01
.50	-.6158-00	.5600-00	.1305+01	.7032-00	.1087+01	.6462-00	.1065+01
.70	-.5223-00	.5828-00	.1302+01	.7116-00	.1081+01	.6621-00	.1065+01
1.00	-.4273-00	.6055-00	.1299+01	.7201-00	.1075+01	.6805-00	.1064+01
L3 - SUBSHELL							
.05	-.1453+01	.5949-01	.1239+00	.7645-00	.1136+01	.1448-01	.9220-00
.10	-.1220+01	.6040-01	.9283-01	.1038-01	.1118+01	.4457-01	.9131-00
.15	-.9907-00	.6608-01	.4761-01	.5303-01	.1105+01	.7146-01	.9058-00
.20	-.8372-00	.9566-01	.1543-01	.7707-01	.1093+01	.9818-01	.8991-00
.30	-.6538-00	.1162+00	-.2912-01	.1147+00	.1067+01	.1526-00	.8873-00
.40	-.4633-00	.1318-00	-.7212-01	.1757-00	.1045+01	.2019-00	.8753-00
.50	-.3529-00	.1489-00	-.1054+00	.2350-00	.1021+01	.2485-00	.8702-00
.70	-.1279-00	.1883-00	-.1561-00	.3508-00	.9730-00	.3336-00	.8565-00
1.00	-.9448-01	.2534-00	-.1909-00	.5000-00	.9036-00	.4395-00	.8386-00
TOTAL L - SHELL							
.05	-.1558+01	.6915-01	.9622-00	.7904-01	.1139+01	.2060-01	.9282-00
.10	-.1514+01	.1143+00	.1056+01	.1314-00	.1123+01	.8238-01	.9539-00
.15	-.1482+01	.1489-00	.1113+01	.1819-00	.1111+01	.1369-00	.9420-00
.20	-.1446+01	.1807-00	.1153+01	.2230-00	.1101+01	.1883-00	.9302-00
.30	-.1410+01	.2332-00	.1203+01	.2682-00	.1084+01	.2812-00	.9155-00
.40	-.1345+01	.2812-00	.1228+01	.3483-00	.1071+01	.3568-00	.9769-00
.50	-.1270+01	.3240-00	.1242+01	.4027-00	.1061+01	.4219-00	.9897-00
.70	-.1107+01	.3956-00	.1252+01	.4949-00	.1044+01	.5260-00	.1005+01
1.00	-.8684-00	.4504-00	.1231+01	.5976-00	.1028+01	.6341-00	.1019+01

Table 3.1.00

Z=50

PO 52 K A U L SHELL

K	E1	E1/42	E2	E2/60	E3	E3/104	E4
K = Shell							
.20	-.1651+01	.1121+00	.1401+01	-.5111+01	.1197+01	.4781+00	.1078+01
.30	-.1709+01	.1471+00	.1351+01	-.2435+00	.1158+01	.5522+00	.1074+01
.40	-.1803+01	.2003+00	.1261+01	-.7400+00	.1125+01	.6109+00	.1071+01
.50	-.1854+01	.2515+00	.1245+01	-.5127+00	.1095+01	.5567+00	.1068+01
.70	-.1816+01	.4830+00	.1218+01	-.6129+00	.1083+01	.7216+00	.1063+01
1.00	-.1600+01	.4324+00	.1287+01	-.5529+00	.1033+01	.7765+00	.1050+01
L1 = SubShell							
.05	-.1914+01	.5857+02	.1497+01	-.5751+01	.1284+01	.2537+00	.1072+01
.10	-.1810+01	.7046+01	.1402+01	.1247+00	.1239+01	.3423+00	.1060+01
.15	-.1874+01	.1114+00	.1401+01	.2665+00	.1165+01	.5266+00	.1011+01
.20	-.1824+01	.1502+00	.1396+01	.4157+00	.1092+01	.6285+00	.1010+01
.30	-.1730+01	.2114+00	.1374+01	.5554+00	.1015+01	.7228+00	.1079+01
.40	-.1656+01	.2623+00	.1371+01	.6152+00	.1002+01	.7477+00	.1077+01
.50	-.1526+01	.3098+00	.1357+01	.6475+00	.1001+01	.7571+00	.1075+01
.70	-.1295+01	.3282+00	.1353+01	.6350+00	.1002+01	.7695+00	.1071+01
1.00	-.1000+01	.4727+00	.1508+01	.7255+00	.1000+01	.7889+00	.1055+01
L2 = SubShell							
.05	-.1565+01	.3811+00	.1311+01	.6250+00	.1112+01	.1009+00	.1067+01
.10	-.1263+01	.4151+00	.1311+01	.6454+00	.1128+01	.4223+00	.1067+01
.15	-.1095+01	.7730+00	.1311+01	.6503+00	.1120+01	.4608+00	.1066+01
.20	-.9691+00	.4752+00	.1316+01	.6595+00	.1113+01	.5572+00	.1056+01
.30	-.6350+00	.5085+00	.1310+01	.6747+00	.1102+01	.5933+00	.1056+01
.40	-.4416+00	.5295+00	.1310+01	.6879+00	.1096+01	.6166+00	.1056+01
.50	-.3144+00	.5553+00	.1309+01	.6931+00	.1091+01	.6325+00	.1066+01
.70	-.5804+00	.5554+00	.1307+01	.7019+00	.1085+01	.6524+00	.1065+01
1.00	-.4643+00	.5921+00	.1304+01	.7099+00	.1078+01	.6705+00	.1065+01
L3 = SubShell							
.05	-.1498+01	.3644+01	.1236+00	.1162+01	.1153+01	.1262+01	.9251+00
.10	-.1295+01	.6062+01	.1044+00	-.1134+02	.1122+01	.4296+01	.9351+00
.15	-.1074+01	.8662+01	.6670+01	.5356+01	.1109+01	.4974+01	.9063+00
.20	-.9214+00	.9555+01	.3265+01	.5282+01	.1097+01	.4581+01	.9022+00
.30	-.7160+00	.1161+00	.2237+02	.6170+01	.1072+01	.1310+00	.8915+00
.40	-.5549+00	.1305+00	-.3503+01	.1378+00	.1049+01	.2003+00	.8876+00
.50	-.4067+00	.1466+00	-.6721+01	.1336+00	.1045+01	.2466+00	.8749+00
.70	-.1928+00	.1835+00	-.1134+00	.5024+00	.0968+00	.5300+00	.8617+00
1.00	-.4602+01	.2793+00	-.1454+00	.4470+00	.0909+00	.4250+00	.8459+00
L4 = Shell							
.05	-.1566+01	.6415+01	.9550+00	.7557+01	.1311+01	.1518+01	.9289+00
.10	-.1523+01	.1122+00	.1051+01	.1211+00	.1126+01	.7425+01	.9351+00
.15	-.1484+01	.1759+00	.1109+01	.1511+00	.1116+01	.1271+00	.9406+00
.20	-.1442+01	.1803+00	.1151+01	.2120+00	.1106+01	.1786+00	.9465+00
.30	-.1350+01	.2515+00	.1207+01	.2752+00	.1089+01	.2706+00	.9539+00
.40	-.1335+01	.2809+00	.1235+01	.3357+00	.1076+01	.3460+00	.9771+00
.50	-.1257+01	.3231+00	.1248+01	.3583+00	.1067+01	.4106+00	.9865+00
.70	-.1090+01	.3940+00	.1262+01	.4787+00	.1048+01	.5125+00	.1005+01
1.00	-.1661+00	.4749+00	.1264+01	.5287+00	.1031+01	.5159+00	.1029+01

TABLE 3.1.07

Z=84

PP B2 K AND L SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.20	-.1881+01	.1674+00	.1404+01	-.3571-00	.1165+01	.5297-00	.1078+01
.30	-.1785+01	.1840-00	.1388+01	.2624-00	.1126+01	.5967-00	.1075+01
.40	-.1658+01	.2486-00	.1370+01	.4370-00	.1096+01	.6480-00	.1072+01
.50	-.1538+01	.3015-00	.1355+01	.5097-00	.1073+01	.6867-00	.1070+01
.70	-.1304+01	.3859-00	.1330+01	.6091-00	.1043+01	.7395-00	.1068+01
1.00	-.1000+01	.4771-00	.1303+01	.6658-00	.1022+01	.7855-00	.1060+01
L1 - SUBSHELL							
.05	-.1909+01	.1629-02	.1596+01	-.1372-00	.1292+01	.2607-00	.1079+01
.10	-.1899+01	.6721-01	.1402+01	.8537-01	.1246+01	.3779-00	.1080+01
.15	-.1869+01	.1166+00	.1402+01	.2168-00	.1186+01	.4894-00	.1081+01
.20	-.1828+01	.1474-00	.1399+01	.3571-00	.1127+01	.5797-00	.1081+01
.30	-.1715+01	.2129-00	.1389+01	.5068-00	.1049+01	.6849-00	.1080+01
.40	-.1609+01	.2657-00	.1378+01	.5789-00	.1018+01	.7262-00	.1078+01
.50	-.1497+01	.3117-00	.1367+01	.6213-00	.1007+01	.7449-00	.1076+01
.70	-.1281+01	.3871-00	.1347+01	.6691-00	.1003+01	.7629-00	.1072+01
1.00	-.1000+01	.4704-00	.1321+01	.7084-00	.1003+01	.7798-00	.1067+01
L2 - SUBSHELL							
.05	-.1371+01	.3788-00	.1315+01	.6210-00	.1143+01	-.3272-01	.1067+01
.10	-.1295+01	.4083-00	.1315+01	.6346-00	.1131+01	.3853-00	.1067+01
.15	-.1125+01	.4354-00	.1313+01	.6528-00	.1123+01	.4655-00	.1067+01
.20	-.1027+01	.4594-00	.1313+01	.6614-00	.1116+01	.5164-00	.1067+01
.30	-.8926-00	.4928-00	.1313+01	.6709-00	.1106+01	.5783-00	.1067+01
.40	-.8010-00	.5156-00	.1314+01	.6786-00	.1100+01	.6033-00	.1067+01
.50	-.7332-00	.5326-00	.1314+01	.6843-00	.1095+01	.6200-00	.1066+01
.70	-.6384-00	.5559-00	.1312+01	.6920-00	.1089+01	.6413-00	.1066+01
1.00	-.5415-00	.5788-00	.1309+01	.6994-00	.1082+01	.6602-00	.1065+01
L3 - SUBSHELL							
.05	-.1318+01	.5269-01	.1180+00	.1800-01	.1140+01	.1030-01	.9240-00
.10	-.1360+01	.8483-01	.1120+00	-.2794-01	.1123+01	.4344-01	.9168-00
.15	-.1154+01	.8773-01	.8247-01	.1680-01	.1113+01	.6668-01	.9107-00
.20	-.1006+01	.9739-01	.6039-01	.2962-01	.1100+01	.9322-01	.9050-00
.30	-.8019-00	.1173+00	.3057-01	.4982-01	.1075+01	.1500-00	.8947-00
.40	-.6254-00	.1313-00	-.2423-02	.9903-01	.1053+01	.1988-00	.8866-00
.50	-.4827-00	.1463-00	-.3009-01	.1505-00	.1029+01	.2447-00	.8793-00
.70	-.2614-00	.1818-00	-.7137-01	.2520-00	.9806-00	.3279-00	.8667-00
1.00	-.1792-01	.2446-00	-.1045+00	.3507-00	.9104-00	.4308-00	.8509-00
TOTAL L - SHELL							
.05	-.1559+01	.5875-01	.9477-00	.7170-01	.1142+01	.9765-02	.9277-00
.10	-.1529+01	.1107+00	.1045+01	.1056+00	.1129+01	.6798-01	.9323-00
.15	-.1435+01	.1447-00	.1106+01	.1606-00	.1120+01	.1175+00	.9396-00
.20	-.1451+01	.1772-00	.1149+01	.1987-00	.1110+01	.1607-00	.9472-00
.30	-.1383+01	.2355-00	.1206+01	.2642-00	.1094+01	.2606-00	.9621-00
.40	-.1314+01	.2826-00	.1237+01	.3229-00	.1081+01	.3350-00	.9759-00
.50	-.1240+01	.3239-00	.1255+01	.3749-00	.1071+01	.3987-00	.9874-00
.70	-.1087+01	.3924-00	.1271+01	.4620-00	.1054+01	.4997-00	.1006+01
1.00	-.8699-00	.4696-00	.1276+01	.5588-00	.1036+01	.6044-00	.1020+01

Table 2.1.06

Z-86

PP-52 K-640 L-SPEL

K	21	21/22	22	22/23	23	23/24	24
K - Shell							
.50	-.1777+01	.1274+00	.1353+01	.1939+00	.1093+01	.6395+00	.1076+01
.70	-.1595+01	.2429+00	.1372+01	.2157+00	.1067+01	.6021+00	.1071+01
.90	-.1570+01	.2593+00	.1384+01	.2471+00	.1049+01	.6177+00	.1071+01
.70	-.1553+01	.2651+00	.1371+01	.2606+00	.1047+01	.6257+00	.1067+01
1.00	-.1300+01	.4723+00	.1315+01	.2757+00	.1012+01	.7571+00	.1062+01
L1 - Shell							
.05	-.1900+01	-.1571+01	.1390+01	-.2227+00	.1279+01	.2595+00	.1075+01
.10	-.1531+01	.6575+01	.1101+01	.4200+01	.1250+01	.5397+00	.1063+01
.15	-.1515+01	.3107+00	.1402+01	.1715+00	.1202+01	.2531+00	.1061+01
.20	-.1312+01	.1630+00	.1400+01	.2858+00	.1151+01	.3417+00	.1061+01
.30	-.1709+01	.2173+00	.1373+01	.4236+00	.1020+01	.6071+00	.1060+01
.40	-.1554+01	.2675+00	.1387+01	.3750+00	.1072+01	.5976+00	.1070+01
.50	-.1434+01	.3120+00	.1371+01	.2656+00	.1024+01	.7213+00	.1071+01
.70	-.1275+01	.3095+00	.1357+01	.5017+00	.1011+01	.7771+00	.1074+01
1.00	-.1300+01	.4681+00	.1355+01	.5050+00	.1007+01	.7660+00	.1069+01
L2 - Shell							
.05	-.1582+01	.3201+00	.1520+01	.6171+00	.1174+01	.1585+00	.1061+01
.10	-.1276+01	.3254+00	.1520+01	.6275+00	.1154+01	.5028+01	.1060+01
.15	-.1195+01	.4162+00	.1519+01	.6463+00	.1126+01	.4684+00	.1057+01
.20	-.1052+01	.4460+00	.1519+01	.5555+00	.1120+01	.4946+00	.1060+01
.30	-.9550+00	.4759+00	.1519+01	.6627+00	.1130+01	.5624+00	.1067+01
.40	-.8516+00	.5019+00	.1519+01	.6684+00	.1104+01	.5594+00	.1107+01
.50	-.7512+00	.5139+00	.1518+01	.6767+00	.1090+01	.5072+00	.1057+01
.70	-.6655+00	.5425+00	.1517+01	.5826+00	.1093+01	.6297+00	.1067+01
1.00	-.5054+00	.5634+00	.1514+01	.5880+00	.1086+01	.4495+00	.1060+01
L3 - Shell							
.05	-.1523+01	.4769+01	.1095+00	.2130+01	.1103+01	.7060+02	.9246+00
.10	-.1420+01	.8753+01	.1162+00	-.5274+01	.1120+01	.4791+01	.9141+00
.15	-.1255+01	.3951+01	.9515+01	.1757+02	.1118+01	.6407+01	.9125+00
.20	-.1089+01	.6853+01	.7794+01	.7525+02	.1106+01	.9042+01	.9072+00
.30	-.9516+00	.1204+00	.5547+01	.1045+01	.1075+01	.1406+00	.8778+00
.40	-.7000+00	.1330+00	.2790+01	.6005+01	.1056+01	.1575+00	.8503+00
.50	-.5017+00	.1663+00	.4423+02	.1070+00	.1033+01	.2451+00	.8834+00
.70	-.3532+00	.1822+00	-.3097+01	.2005+00	.9944+00	.5254+00	.8715+00
1.00	-.7577+01	.2777+00	-.6060+01	.3319+00	.9140+00	.4270+00	.8532+00
107/L L - Shell							
.05	-.1545+01	.5025+01	.9395+00	.6977+01	.1165+01	.5025+02	.8512+00
.10	-.1538+01	.1070+00	.1039+01	.9755+01	.1152+01	.8057+01	.9317+00
.15	-.1497+01	.1425+00	.1102+01	.1501+00	.1124+01	.1097+00	.9585+00
.20	-.1433+01	.1765+00	.1147+01	.1878+00	.1113+01	.1519+00	.9739+00
.30	-.1350+01	.2353+00	.1207+01	.2524+00	.1099+01	.2303+00	.9866+00
.40	-.1300+01	.2825+00	.1240+01	.3102+00	.1087+01	.3238+00	.9745+00
.50	-.1257+01	.3235+00	.1260+01	.3612+00	.1077+01	.3855+00	.9803+00
.70	-.1005+01	.5902+00	.1280+01	.4453+00	.1061+01	.4157+00	.1064+01
1.00	-.6756+00	.4647+00	.1267+01	.5553+00	.1045+01	.5879+00	.1021+01

Table 3.1.89

Z=82

P2 02 K And L Shell

R	F1	F1/2	F2	F2/25	F3	F3/25	F6
R - SHELL							
.50	-.1762+01	.1776-00	.1392+01	.7471-01	.1661+01	.6787-00	.1077+01
.40	-.1637+01	.2453-00	.1513+01	.3750-00	.1041+01	.7110-00	.1073+01
.30	-.1520+01	.2877-00	.1572+01	.4745-00	.1025+01	.7333-00	.1073+01
.20	-.1291+01	.3706-00	.1551+01	.2851-00	.1014+01	.7632-00	.1068+01
1.00	-.1000+01	.4670-00	.1527+01	.8572-00	.1006+01	.7871-00	.1066+01
L1 - SUBSHELL							
.05	-.1857+01	-.2945-01	.1393+01	-.2927-00	.1286+01	.2809-00	.1070+01
.10	-.1858+01	.6107-01	.1400+01	.9413-03	.1251+01	.3668-00	.1060+01
.15	-.1813+01	.1101+00	.1402+01	.1316-00	.1212+01	.4451-00	.1060+01
.20	-.1794+01	.1492-00	.1401+01	.2401-00	.1172+01	.5121-00	.1061+01
.30	-.1670+01	.2167-00	.1395+01	.4043-00	.1108+01	.6066-00	.1060+01
.40	-.1376+01	.2687-00	.1363+01	.6092-00	.1058+01	.6897-00	.1079+01
.50	-.1453+01	.3129-00	.1351+01	.8446-00	.1043+01	.6915-00	.1078+01
.70	-.1264+01	.3457-00	.1343+01	.6081-00	.1025+01	.7243-00	.1075+01
1.00	-.1000+01	.4609-00	.1344+01	.6577-00	.1016+01	.7482-00	.1071+01
L2 - SUBSHELL							
.05	-.1322+01	.5837-00	.1324+01	.6140-00	.1143+01	-.4206-00	.1063+01
.10	-.1311+01	.5897-00	.1326+01	.6211-00	.1136+01	.2870-00	.1064+01
.15	-.1206+01	.4104-00	.1324+01	.6316-00	.1129+01	.4279-00	.1060+01
.20	-.1135+01	.4333-00	.1323+01	.6639-00	.1123+01	.4719-00	.1060+01
.30	-.1094+01	.4626-00	.1324+01	.8132-00	.1114+01	.5455-00	.1062+01
.40	-.9187-00	.6836-00	.1326+01	.6801-00	.1108+01	.5748-00	.1060+01
.50	-.8453-00	.5051-00	.1323+01	.6650-00	.1103+01	.5939-00	.1067+01
.70	-.7521-00	.3289-00	.1322+01	.6712-00	.1097+01	.6177-00	.1067+01
1.00	-.5531-00	.5518-00	.1320+01	.6780-00	.1090+01	.6383-00	.1067+01
L3 - SUBSHELL							
.05	-.1510+01	.4117-01	.9871-01	.4292-01	.1143+01	.2733-02	.9251-00
.10	-.1473+01	.8438-01	.1176+00	-.3534-01	.1122+01	.3582-01	.9187-00
.15	-.1302+01	.9968-01	.1043+00	-.3086-01	.1116+01	.6067-01	.9160-00
.20	-.1170+01	.1032+00	.9219-01	-.1198-01	.1107+01	.9109-01	.9097-00
.30	-.9728-00	.1244+00	.7654-01	-.1159-01	.1082+01	.1472-00	.9007-00
.40	-.7926-00	.1374-00	.5496-01	.2303-01	.1060+01	.1938-00	.8937-00
.50	-.6431-00	.1519-00	.3557-01	.3313-01	.1030+01	.2413-00	.8872-00
.70	-.4074-00	.1848-00	.7258-02	.1471-00	.9333-00	.3231-00	.8759-00
1.00	-.1431-00	.2432-00	-.1713-01	.2705-00	.9177-00	.4255-00	.8616-00
TOTAL L - SHELL							
.05	-.1307+01	.4323-01	.9314-00	.7163-01	.1146+01	.1233-03	.9205-00
.10	-.1544+01	.1042+00	.1034+01	.8997-01	.1134+01	.3313-01	.9311-00
.15	-.1492+01	.1460-00	.1096+01	.1278-00	.1125+01	.1036+00	.9373-00
.20	-.1457+01	.1757-00	.1145+01	.1772-00	.1119+01	.1490-00	.9446-00
.30	-.1377+01	.2338-00	.1208+01	.2612-00	.1104+01	.2399-00	.9593-00
.40	-.1305+01	.2827-00	.1244+01	.2981-00	.1093+01	.3123-00	.9736-00
.50	-.1226+01	.3229-00	.1265+01	.2476-00	.1084+01	.3742-00	.9854-00
.70	-.1082+01	.3881-00	.1288+01	.6288-00	.1068+01	.4713-00	.1006+01
1.00	-.6794-00	.4600-00	.1297+01	.3184-00	.1052+01	.5708-00	.1022+01

FHELL 3.1.10

Z=66

PP B2 K FID L SF.LL

K	L1	E1/12	m2	m2/F3	F3	E3/12	L2
K - SHELL							
.30	-.1755+01	.1735-00	.1401+01	-.1375-00	.1033+01	.7086-00	.1078-01
.40	-.1617-01	.2113-00	.1390+01	.5095-00	.1020+01	.7019-00	.1070+01
.50	-.1520+01	.2944-00	.1380+01	.4261-00	.1012+01	.7011-00	.1072+01
.70	-.1385+01	.3777-00	.1365+01	.5057-00	.1007+01	.7104-00	.1071+01
1.00	-.1000+01	.4556-00	.1360+01	.6225-00	.1002+01	.7853-00	.1058+01
L1 - SUBSHELL							
.10	-.1832-01	.5945-01	.1395+01	-.2164-01	.1251+01	.3658-00	.1070-01
.15	-.1793+01	.1127+00	.1402+01	.1116+00	.1218+01	.4338-00	.1060-01
.20	-.1700+01	.1525-00	.1402+01	.2215-00	.1185+01	.4907-00	.1061-01
.30	-.1672+01	.2102-00	.1399+01	.2557-00	.1150+01	.5357-00	.1060+01
.40	-.1566+01	.2650-00	.1395+01	.4263-00	.1092+01	.6291-00	.1050+01
.50	-.1445+01	.3152-00	.1380+01	.5078-00	.1008+01	.6631-00	.1075+01
.70	-.1249+01	.3844-00	.1375+01	.5725-00	.1043+01	.6917-00	.1070-01
1.00	-.1000+01	.4567-00	.1357+01	.6272-00	.1029+01	.7206-00	.1073-01
L2 - SUBSHELL							
.05	-.1191+01	.4180-00	.1329+01	.6142-00	.1147+01	.5555-00	.1067+01
.10	-.1347+01	.3003-00	.1329+01	.6156-00	.1139+01	.2465-00	.1060+01
.15	-.1250+01	.4067-00	.1329+01	.6245-00	.1137+01	.5335-00	.1058-01
.20	-.1166+01	.4258-00	.1329+01	.6283-00	.1125+01	.6647-00	.1068+01
.30	-.1057+01	.4925-00	.1328+01	.6494-00	.1113+01	.5105-00	.1060+01
.40	-.5699-00	.4755-00	.1328+01	.6557-00	.1112+01	.5465-00	.1068+01
.50	-.9027-00	.4519-00	.1328+01	.6557-00	.1107+01	.5813-00	.1068+01
.70	-.5011-00	.5154-00	.1327+01	.6617-00	.1101+01	.6056-00	.1058+01
1.00	-.7108-00	.5383-00	.1328+01	.6672-00	.1095+01	.6271-00	.1067-01
L3 - SUBSHELL							
.05	-.1467-01	.3186-01	.7801-01	.6081-01	.1145+01	-.1700-02	.9253-00
.10	-.1530+01	.8171-01	.1135+00	-.3007-01	.1120+01	.3487-01	.9204-00
.15	-.1371+01	.1000-00	.1060+00	-.6165-01	.1118+01	.6755-01	.9150-00
.20	-.1249+01	.1075-00	.9975-01	-.3170-01	.1111+01	.6893-01	.9118-00
.30	-.1037+01	.1271-00	.9062-01	-.4354-01	.1035+01	.1438-00	.9055-00
.40	-.5784-00	.1405-00	.7562-01	-.1064-01	.1065+01	.1944-00	.8365-01
.50	-.7275-00	.1541-00	.6215-01	.1341-01	.1043+01	.4258-00	.5909-00
.70	-.7856-00	.1846-00	.7117-01	.6472-01	.9921-00	.3207-00	.6305-00
1.00	-.4121-00	.2369-00	.2504-01	.1542-00	.9214-00	.4198-00	.9670-00
TOTAL L - SHELL							
.10	-.1555+01	.9883-01	.1009+01	.8598-01	.1137+01	.4515-01	.9303-00
.15	-.1490+01	.1454-00	.1077+01	.1194+00	.1129+01	.9525-01	.9264-00
.20	-.1450+01	.1761-00	.1128+01	.1058-00	.1122+01	.1412-00	.9413-00
.30	-.1383+01	.2334-00	.1196+01	.2245-00	.1110+01	.2255-00	.9575-00
.40	-.1307+01	.2608-00	.1256+01	.2810-00	.1095+01	.2975-00	.9710-00
.50	-.1222+01	.3227-00	.1262+01	.3355-00	.1090+01	.3619-00	.9820-00
.70	-.1079+01	.3861-00	.1289+01	.4118-00	.1070+01	.4513-00	.1003+01
1.00	-.5521-00	.4551-00	.1303+01	.4980-00	.1060+01	.5535-00	.1022-01

TABLE 3.2
=====

PARTICLE PARAMETER

B2

(STATIC)

OF THE

K AND L SHELL

FOR

M1, E2, M3, E4

TRANSITIONS

TABLE 3.2.01

Z=60

PP B2 K AND L SHELL

K	M1	M1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.10	-.6644-01	-.1253-00	.1968+01	.1340-00	.1162+01	.6845-01	.1159+01
.15	-.1756-01	-.2716-01	.1947+01	.1770-00	.1135+01	.2490-00	.1146+01
.20	.2980-01	.3440-01	.1923+01	.2177-00	.1128+01	.3154-00	.1138+01
.30	.1241-00	.1357-00	.1656+01	.2930-00	.1117+01	.4091-00	.1122+01
.40	.1981-00	.2000-00	.1603+01	.3659-00	.1107+01	.4890-00	.1107+01
.50	.2538-00	.2698-00	.1757+01	.4291-00	.1100+01	.5675-00	.1092+01
.70	.3565-00	.3851-00	.1612+01	.5337-00	.1089+01	.6461-00	.1086+01
1.00	.4258-00	.5098-00	.1459+01	.6446-00	.1077+01	.7417-00	.1067+01
L1 - SUBSHELL							
.02	.2714-01	-.1959-00	.1941+01	.1819-00	.1163+01	-.2595-01	.1172+01
.05	-.5786-02	-.5362-00	.1002+01	.7696-00	.1146+01	.1318-00	.1162+01
.10	.5295-03	.3949-02	.1753+01	.3740-00	.1146+01	.3788-00	.1111+01
.15	.3558-01	.9040-01	.1813+01	.3292-00	.1140+01	.5063-00	.1028+01
.20	.7220-01	.1539-00	.1811+01	.3353-00	.1135+01	.6928-00	.1000+01
.30	.1401-00	.1996-00	.1769+01	.3791-00	.1126+01	.6969-00	.1020+01
.40	.1983-00	.2666-00	.1713+01	.4305-00	.1118+01	.6903-00	.1021+01
.50	.2472-00	.3258-00	.1655+01	.4802-00	.1110+01	.7022-00	.1038+01
.70	.3255-00	.4232-00	.1544+01	.5663-00	.1099+01	.7379-00	.1079+01
1.00	.4100-00	.5341-00	.1411+01	.6607-00	.1086+01	.7866-00	.1021+01
L2 - SUBSHELL							
.02	.3535-00	.6589-00	.1457+01	-.3997-00	.1113+01	.6082-00	.1078+01
.05	.3526-00	.6784-00	.1355+01	.2760-00	.1113+01	.6257-00	.1072+01
.10	.3548-00	.7372-00	.1252+01	.5264-00	.1113+01	.6436-00	.1066+01
.15	.3551-00	.7557-00	.1208+01	.5965-00	.1113+01	.6551-00	.1062+01
.20	.3554-00	.7666-00	.1177+01	.6419-00	.1112+01	.6631-00	.1059+01
.30	.3551-00	.7779-00	.1136+01	.6968-00	.1112+01	.6736-00	.1055+01
.40	.3580-00	.7853-00	.1115+01	.7203-00	.1111+01	.6813-00	.1052+01
.50	.3614-00	.7899-00	.1102+01	.7355-00	.1111+01	.6873-00	.1050+01
.70	.3690-00	.7946-00	.1086+01	.7542-00	.1110+01	.6964-00	.1048+01
1.00	.3813-00	.7980-00	.1073+01	.7709-00	.1108+01	.7065-00	.1045+01
L3 - SUBSHELL							
.02	.9556-00	.7139-00	.1441+01	-.3613-01	.8073-00	-.1728-01	.1077+01
.05	.9448-00	.7581-00	.1342+01	-.1503-01	.7893-00	.2637-01	.1070+01
.10	.9238-00	.8014-00	.1249+01	.9420-02	.7612-00	.6353-01	.1061+01
.15	.9141-00	.8145-00	.1194+01	.3677-01	.7400-00	.1193+00	.1054+01
.20	.9040-00	.8207-00	.1155+01	.6071-01	.7219-00	.1358-00	.1047+01
.30	.8970-00	.8222-00	.1094+01	.1069+00	.6920-00	.2300-00	.1035+01
.40	.8894-00	.8236-00	.1050+01	.1453-00	.6683-00	.3075-00	.1018+01
.50	.8858-00	.8244-00	.1012+01	.1304-00	.6481-00	.3219-00	.1002+01
.70	.8845-00	.8253-00	.9457-00	.2425-00	.6145-00	.5207-00	.9666-00
1.00	.8856-00	.8290-00	.8682-00	.3210-00	.5747-00	.6999-00	.9120-00
TOTAL L - SHELL							
.02	.7004-01	.1722-00	.1651+01	-.3348-01	.8538-00	.2845-02	.1078+01
.05	.5778-01	.1629-00	.1547+01	.2747-01	.8666-00	.7619-01	.1071+01
.10	.4131-01	.2063-00	.1264+01	.1196+00	.9067-00	.1476-00	.1063+01
.15	.7162-01	.2261-00	.1256+01	.1529-00	.9397-00	.2119-00	.1058+01
.20	.1038+00	.2451-00	.1260+01	.2376-00	.9642-00	.2581-00	.1053+01
.30	.1644+00	.2791-00	.1295+01	.3263-00	.9965-00	.3333-00	.1046+01
.40	.2170+00	.3220-00	.1326+01	.3935-00	.1016+01	.3983-00	.1038+01
.50	.2617+00	.3647-00	.1342+01	.4505-00	.1029+01	.4358-00	.1035+01
.70	.3541-00	.4467-00	.1338+01	.5422-00	.1043+01	.5529-00	.1024+01
1.00	.4156+00	.5414-00	.1295+01	.6410-00	.1051+01	.6619-00	.1014+01

TABLE 3.2.02

Z=64

PP D2 K AND L SHELL

K	H1	H1/E2	E2	E2/H3	H3	H3/E4	E4
K - SHELL							
.15	-.4205-01	-.7323-01	.1937+01	.1917-00	.1138+01	.2511-00	.1138+01
.20	-.2282-02	-.1375-02	.1910+01	.2340-00	.1132+01	.5352-00	.1129+01
.30	.8713-01	.1082+00	.1847+01	.3127-00	.1121+01	.4369-00	.1111+01
.40	.1527-00	.1731-00	.1777+01	.3845-00	.1112+01	.5182-00	.1094+01
.50	.2055-00	.2459-00	.1707+01	.4475-00	.1105+01	.5748-00	.1080+01
.70	.2856-00	.3663-00	.1577+01	.5502-00	.1094+01	.6671-00	.1056+01
1.00	.3722-00	.4904-00	.1426+01	.6506-00	.1083+01	.7538-00	.1035+01
L1 - SUBSHELL							
.05	-.2030-02	-.3555-00	.1311+01	.6234-00	.1145+01	.1133+00	.1162+01
.10	-.3606-02	-.5384-01	.1363+01	.4966-00	.1145+01	.3204-00	.1126+01
.15	.1912-01	.6994-01	.1717+01	.4029-00	.1142+01	.5127-00	.1063+01
.20	.4791-01	.1236+00	.1737+01	.3923-00	.1138+01	.6454-00	.1015+01
.30	.1061+00	.1910-00	.1707+01	.4224-00	.1130+01	.7211-00	.1002+01
.40	.1579-00	.2589-00	.1655+01	.4670-00	.1122+01	.7243-00	.1010+01
.50	.2026-00	.3175-00	.1598+01	.5119-00	.1116+01	.7331-00	.1014+01
.70	.2760-00	.4146-00	.1492+01	.5902-00	.1105+01	.7386-00	.1015+01
1.00	.3571-00	.5191-00	.1388+01	.6757-00	.1092+01	.7958-00	.1011+01
L2 - SUBSHELL							
.02	.3391-00	.6391-00	.1457+01	-.5575-00	.1114+01	.6053-00	.1073+01
.03	.3368-00	.6612-00	.1377+01	.1942-00	.1113+01	.6211-00	.1073+01
.10	.3396-00	.7198-00	.1276+01	.4830-00	.1113+01	.6379-00	.1067+01
.15	.3395-00	.7358-00	.1230+01	.5631-00	.1113+01	.6493-00	.1064+01
.20	.3395-00	.7489-00	.1197+01	.6150-00	.1113+01	.6572-00	.1061+01
.30	.3382-00	.7597-00	.1153+01	.6767-00	.1113+01	.6675-00	.1057+01
.40	.3403-00	.7673-00	.1131+01	.7037-00	.1112+01	.6752-00	.1054+01
.50	.3434-00	.7717-00	.1117+01	.7208-00	.1112+01	.6811-00	.1052+01
.70	.3498-00	.7760-00	.1099+01	.7418-00	.1111+01	.6901-00	.1049+01
1.00	.3605-00	.7786-00	.1084+01	.7602-00	.1109+01	.7000-00	.1046+01
L3 - SUBSHELL							
.02	.9353-00	.7114-00	.1435+01	-.4272-01	.8077-00	-.2669-01	.1073+01
.05	.9453-00	.7451-00	.1358+01	-.2236-01	.7940-00	.1875-01	.1071+01
.10	.9356-00	.7908-00	.1269+01	-.4584-03	.7685-00	.5617-01	.1062+01
.15	.9218-00	.8046-00	.1213+01	.2659-01	.7491-00	.1127+00	.1055+01
.20	.9134-00	.8118-00	.1173+01	.4967-01	.7321-00	.1520-00	.1048+01
.30	.9061-00	.8140-00	.1109+01	.9513-01	.7036-00	.2221-00	.1035+01
.40	.8984-00	.8162-00	.1064+01	.1323-00	.6810-00	.2992-00	.1015+01
.50	.8942-00	.8173-00	.1025+01	.1663-00	.6616-00	.3733-00	.1001+01
.70	.8917-00	.8187-00	.9579-00	.2266-00	.6289-00	.5109-00	.9854-00
1.00	.8951-00	.8226-00	.8754-00	.3022-00	.5897-00	.6888-00	.9692-00
TOTAL L - SHELL							
.05	.3440-01	.1733-00	.1366+01	.1331-01	.8599-00	.6454-01	.1073+01
.10	.3632-01	.1967-00	.1276+01	.9929-01	.9000-00	.1369-00	.1065+01
.15	.5349-01	.2172-00	.1248+01	.1687-00	.9528-00	.2028-00	.1059+01
.20	.8075-01	.2364-00	.1245+01	.2267-00	.9579-00	.2300-00	.1054+01
.30	.1324-00	.2703-00	.1258+01	.3214-00	.9921-00	.3263-00	.1046+01
.40	.1790-00	.3122-00	.1277+01	.3931-00	.1014+01	.3916-00	.1039+01
.50	.2195-00	.3337-00	.1289+01	.4527-00	.1028+01	.4487-00	.1033+01
.70	.2869-00	.4313-00	.1285+01	.5468-00	.1044+01	.5442-00	.1023+01
1.00	.3628-00	.5246-00	.1252+01	.6451-00	.1054+01	.6508-00	.1012+01

Table 3.2.03

L=0.8

PHASE K AND L SPLIT

K	L	L1/02	L2	L2/10	L3	L3/04	L4
K = Shift							
.15	-.5877-01	-.1332-01	.4923-01	.2001-00	.1170-01	.2278-00	.1121-01
.20	-.2717-01	-.4742-01	.1823-01	.2510-00	.1155-01	.3535-00	.1110-01
.30	.5101-01	.7012-01	.1722-01	.3555-00	.1123-01	.4639-00	.1100-01
.40	.1111-00	.1498-00	.1747-01	.4050-00	.1117-01	.5472-00	.1091-01
.50	.1676-00	.2277-00	.1672-01	.4587-00	.1110-01	.6000-00	.1080-01
.70	.2573-00	.3305-00	.1539-01	.5613-00	.1100-01	.6860-00	.1064-01
1.00	.3205-00	.4060-00	.1390-01	.6550-00	.1087-01	.7032-00	.1027-01
L1 = Shift							
.05	.4502-02	-.3803-00	.1501-01	.4963-00	.1143-01	.1057+00	.1162-01
.10	-.7051-02	-.1372-00	.1270-01	.5412-00	.1145-01	.2513-00	.1154-01
.15	.6092-02	.3702-01	.1087-01	.4970-00	.1147-01	.4578-00	.1100-01
.20	.2182-01	.1025-00	.1029-01	.4053-00	.1130-01	.5721-00	.1095-01
.30	.7717-03	.1777-00	.1025-01	.4741-00	.1135-01	.7028-00	.1007-01
.40	.1224-00	.7770-00	.1031-01	.5093-00	.1127-01	.7505-00	.1000-01
.50	.1070-00	.5033-00	.1030-01	.5070-00	.1121-01	.7749-00	.1003-01
.70	.2300-00	.5535-00	.1027-01	.6102-00	.1110-01	.7679-00	.1003-01
1.00	.3006-00	.5701-00	.1020-01	.6910-00	.1097-01	.7779-00	.1004-01
L2 = Shift							
.05	.2207-00	.6459-00	.1087-01	.1020-00	.1117-01	.6035-00	.1077-01
.10	.3170-00	.6137-00	.1250-01	.4050-00	.1117-01	.8070-00	.1089-01
.15	.5225-00	.7177-00	.1702-01	.5270-00	.1110-01	.6030-00	.1063-01
.20	.3223-00	.7503-00	.1217-01	.5835-00	.1114-01	.6535-00	.1067-01
.30	.5205-00	.7707-00	.1070-01	.6333-00	.1117-01	.7610-00	.1034-01
.40	.5219-00	.7770-00	.1170-01	.6827-00	.1113-01	.8091-00	.1005-01
.50	.5772-00	.7520-00	.1152-01	.7045-00	.1113-01	.8050-00	.1000-01
.70	.5290-00	.7537-00	.1110-01	.7285-00	.1112-01	.8078-00	.1001-01
1.00	.5538-00	.7373-00	.1093-01	.7403-00	.1110-01	.8097-00	.1004-01
L3 = Shift							
.05	.9439-00	.7235-00	.1070-01	-.5115-01	.7578-00	.1222-01	.1072-01
.10	.5477-00	.7680-00	.1272-01	-.2610-01	.7779-00	.4813-01	.1067-01
.15	.9287-00	.7537-00	.1201-01	.1028-01	.7576-00	.1099-00	.1050-01
.20	.9210-00	.6019-00	.1190-01	.5853-01	.7013-00	.1745-00	.1079-01
.30	.5107-00	.6000-00	.1027-01	.7349-01	.7010-00	.2162-00	.1057-01
.40	.5069-00	.5077-00	.1073-01	.1155-00	.6928-00	.2509-00	.1061-01
.50	.5021-00	.5018-00	.1014-01	.1520-00	.6742-00	.2535-00	.1007-01
.70	.5000-00	.5106-00	.5890-00	.2100-00	.6427-00	.2501-00	.9670-01
1.00	.5003-00	.5149-00	.5320-00	.2355-00	.6040-00	.6713-00	.9074-01
L4 = Shift							
.05	.4163-01	.1603-00	.1580-01	-.5924-01	.2561-00	.5052-01	.1077-01
.10	.5101-01	.1526-00	.1284-01	.6865-01	.5940-00	.1258-00	.1007-01
.15	.5027-01	.2057-00	.1252-01	.1035-00	.6203-00	.1934-00	.1001-01
.20	.5220-01	.2235-00	.1250-01	.2137-00	.6320-00	.2413-00	.1000-01
.30	.1050-00	.2390-00	.1228-01	.5137-00	.9875-00	.5180-00	.1008-01
.40	.1454-00	.2996-00	.1037-01	.3895-00	.1011+01	.5541-00	.1000-01
.50	.1610-00	.3337-00	.1030-01	.4521-00	.1027+01	.4707-00	.1054-01
.70	.2612-00	.4773-00	.1005-01	.5459-00	.1043+01	.5540-00	.1027-01
1.00	.5159-00	.5070-00	.1211-01	.6572-00	.1057-01	.6070-00	.1012-01

TABLE 3.2.04

Z=72

PP 62 K AND L SHELL

K	G1	G1/G2	G2	G2/G3	G3	G3/G4	G4
K - SHELL							
.15	-.6500-01	-.2216-00	.1905+01	.2286-00	.1142+01	.1292-00	.1112+01
.20	-.6127-01	-.1175+00	.1871+01	.2747-00	.1137+01	.3582-00	.1102+01
.30	.2103-01	.3505-01	.1752+01	.3570-00	.1129+01	.4678-00	.1082+01
.40	.7440-01	.1140+00	.1710+01	.4294-00	.1121+01	.5736-00	.1068+01
.50	.1198+00	.1530-00	.1652+01	.4912-00	.1115+01	.6237-00	.1052+01
.70	.1914-00	.3148-00	.1496+01	.5876-00	.1105+01	.7015-00	.1035+01
1.00	.2702-00	.4531-00	.1352+01	.6818-00	.1093+01	.7692-00	.1017+01
L1 - SUBSHELL							
.05	.7454-02	-.1554-00	.1681+01	.4231-00	.1144+01	.6513-01	.1162+01
.10	-.6617-02	-.2372-00	.1027+01	.7395-00	.1146+01	.2626-00	.1139+01
.15	-.6117-02	-.4728-01	.1354+01	.6133-00	.1144+01	.3829-00	.1105+01
.20	.1437-01	.6836-01	.1478+01	.5474-00	.1142+01	.5039-00	.1067+01
.30	.5311-01	.1561-00	.1518+01	.5339-00	.1136+01	.6570-00	.1019+01
.40	.9163-01	.2290-00	.1490+01	.5569-00	.1130+01	.7103-00	.1004+01
.50	.1269-00	.2675-00	.1448+01	.5869-00	.1125+01	.7561-00	.1001+01
.70	.1879-00	.3805-00	.1363+01	.6436-00	.1115+01	.7642-00	.1000+01
1.00	.2588-00	.4764-00	.1270+01	.7074-00	.1104+01	.7922-00	.1001+01
L2 - SUBSHELL							
.05	.3024-00	.6840-00	.1411+01	.2344-01	.1115+01	.6117-00	.1075+01
.10	.2999-00	.6652-00	.1310+01	.3852-00	.1115+01	.6274-00	.1070+01
.15	.2990-00	.6608-00	.1273+01	.4681-00	.1115+01	.6380-00	.1067+01
.20	.3040-00	.7109-00	.1258+01	.5342-00	.1115+01	.6456-00	.1064+01
.30	.3012-00	.7200-00	.1189+01	.6331-00	.1115+01	.6563-00	.1060+01
.40	.3023-00	.7270-00	.1165+01	.6863-00	.1114+01	.6630-00	.1057+01
.50	.3042-00	.7309-00	.1148+01	.6875-00	.1114+01	.6687-00	.1055+01
.70	.3086-00	.7339-00	.1127+01	.7136-00	.1113+01	.6773-00	.1052+01
1.00	.3162-00	.7345-00	.1110+01	.7359-00	.1112+01	.6857-00	.1049+01
L3 - SUBSHELL							
.05	.9422-00	.7212-00	.1375+01	-.3935-01	.8003-00	.1513-02	.1073+01
.10	.9501-00	.7550-00	.1284+01	-.9607-02	.7806-00	.3935-01	.1064+01
.15	.9401-00	.7717-00	.1230+01	.1678-01	.7662-00	.9913-01	.1057+01
.20	.9275-00	.7909-00	.1205+01	.2758-01	.7495-00	.1377-00	.1050+01
.30	.9227-00	.7935-00	.1136+01	.7195-01	.7244-00	.2060-00	.1034+01
.40	.9148-00	.7973-00	.1090+01	.1070+00	.7040-00	.2824-00	.1016+01
.50	.9096-00	.7990-00	.1050+01	.1291-00	.6862-00	.3357-00	.1001+01
.70	.9052-00	.8012-00	.9809-00	.1954-00	.6560-00	.4914-00	.9628-00
1.00	.9054-00	.8057-00	.8987-00	.2661-00	.6189-00	.6558-00	.9047-00
TOTAL L - SHELL							
.05	.4412-01	.1562-00	.1393+01	.1220-01	.8523-00	.6124-01	.1075+01
.10	.2832-01	.1720-00	.1299+01	.7316-01	.8689-00	.1142+00	.1068+01
.15	.3146-01	.1871-00	.1234+01	.1420-00	.9286-00	.1938-00	.1063+01
.20	.6703-01	.2131-00	.1235+01	.1992-00	.9464-00	.2327-00	.1050+01
.30	.6191-01	.2454-00	.1210+01	.3039-00	.9638-00	.3105-00	.1030+01
.40	.1162+00	.2840-00	.1208+01	.3830-00	.1009+01	.3761-00	.1042+01
.50	.1473-00	.3222-00	.1207+01	.4482-00	.1026+01	.4319-00	.1038+01
.70	.2030-00	.3937-00	.1200+01	.5482-00	.1046+01	.5229-00	.1025+01
1.00	.2681-00	.4796-00	.1175+01	.6475-00	.1060+01	.5229-00	.1014+01

TABLE 3.2.05

Z=78

PP 32 K AND L SHELL

K	L1	L1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.15	-.4978-01	-.2366-00	.1889+01	.2513-00	.1143+01	-.3902-00	.1095+01
.20	-.5512-01	-.1869-00	.1645+01	.2597-00	.1140+01	.3270-00	.1064+01
.30	-.4499-02	-.1817-01	.1756+01	.3842-00	.1132+01	.3058-00	.1063+01
.40	.4259-01	.7004-01	.1667+01	.4566-00	.1125+01	.3961-00	.1950+01
.50	.5362-01	.1563-00	.1585+01	.5168-00	.1119+01	.6424-00	.1034+01
.70	.1497-00	.2602-00	.1448+01	.6785-00	.1109+01	.7127-00	.1622+01
1.00	.2229-00	.4042-00	.1311+01	.6950-00	.1098+01	.7714-00	.1017+01
L1 - SUBSHELL							
.05	.1227-01	-.3503-00	.1759+01	.3216-00	.1144+01	.4082-01	.1161+01
.10	-.7817-02	-.3160-00	.1043+01	.7325-00	.1163+01	.2307-00	.1142+01
.15	-.8636-02	-.1307-00	.1127+01	.7023-00	.1145+01	.3416-00	.1115+01
.20	.3913-02	.1731-01	.1290+01	.6363-00	.1143+01	.6484-00	.1085+01
.30	.3353-01	.1239+00	.1385+01	.5991-00	.1139+01	.6024-00	.1039+01
.40	.6543-01	.2027-00	.1382+01	.6161-00	.1134+01	.6726-00	.1016+01
.50	.9563-01	.2634-00	.1355+01	.6280-00	.1129+01	.7101-00	.1007+01
.70	.1497-00	.3545-00	.1292+01	.6715-00	.1120+01	.7481-00	.1002+01
1.00	.2142-00	.4673-00	.1216+01	.7230-00	.1109+01	.7786-00	.1001+01
L2 - SUBSHELL							
.05	.2828-00	.6200-00	.1426+01	.8221-01	.1116+01	.6079-00	.1076+01
.10	.2802-00	.6458-00	.1359+01	.3303-00	.1116+01	.6229-00	.1071+01
.15	.2798-00	.6612-00	.1294+01	.4464-00	.1116+01	.6327-00	.1068+01
.20	.2756-00	.6861-00	.1251+01	.5362-00	.1116+01	.6400-00	.1065+01
.30	.2812-00	.6964-00	.1206+01	.6085-00	.1115+01	.6504-00	.1062+01
.40	.2818-00	.7049-00	.1182+01	.6454-00	.1115+01	.6568-00	.1059+01
.50	.2831-00	.7081-00	.1165+01	.6689-00	.1113+01	.6624-00	.1057+01
.70	.2864-00	.7103-00	.1143+01	.6977-00	.1114+01	.6709-00	.1054+01
1.00	.2927-00	.7096-00	.1124+01	.7221-00	.1113+01	.6799-00	.1051+01
L3 - SUBSHELL							
.05	.9406-00	.7098-00	.1373+01	.4792-01	.8051-00	-.2416-01	.1074+01
.10	.9520-00	.7609-00	.1290+01	.1783-01	.7854-00	.3003-01	.1065+01
.15	.9439-00	.7587-00	.1239+01	.4672-02	.7705-00	.9259-01	.1058+01
.20	.9586-00	.7681-00	.1199+01	.2832-01	.7570-00	.1304-00	.1051+01
.30	.9298-00	.7063-00	.1140+01	.6092-01	.7324-00	.2121-00	.1038+01
.40	.9221-00	.7857-00	.1100+01	.9475-01	.7142-00	.2739-00	.1018+01
.50	.9166-00	.7873-00	.1060+01	.1260-00	.6976-00	.3466-00	.1000+01
.70	.9114-00	.7900-00	.9907-00	.1605-00	.6687-00	.4215-00	.9611-00
1.00	.9103-00	.7967-00	.9077-00	.2490-00	.6329-00	.6541-00	.9015-00
TOTAL L - SHELL							
.05	.4627-01	.1466-00	.1400+01	-.2414-01	.8489-00	.1793-01	.1073+01
.10	.2713-01	.1603-00	.1212+01	.5841-01	.8839-00	.1024+00	.1069+01
.15	.2567-01	.1740-00	.1265+01	.1260-00	.9153-00	.1762-00	.1064+01
.20	.3613-01	.1958-00	.1229+01	.1513-00	.9413-00	.2235-00	.1060+01
.30	.6274-01	.2301-00	.1199+01	.2921-00	.9795-00	.3073-00	.1052+01
.40	.9104-01	.2662-00	.1188+01	.3740-00	.1006+01	.3676-00	.1044+01
.50	.1162+00	.3024-00	.1161+01	.4416-00	.1024+01	.4227-00	.1038+01
.70	.1686-00	.3698-00	.1168+01	.5444-00	.1047+01	.5112-00	.1028+01
1.00	.2254-00	.4513-00	.1145+01	.6468-00	.1062+01	.6074-00	.1016+01

TABLE 3.2.06

Z=80

PP 32 K AND L SHELL

K	n1	n1/E2	E2	E2/n3	n3	n3/n4	n4
K - SHELL							
.20	-.5887-01	-.2910-00	.1610+01	.3303-00	.1142+01	.2344-00	.1085+01
.50	-.2503-01	-.5630-01	.1710+01	.4156-00	.1133+01	.5123-00	.1047+01
.60	.1346-01	.1517-01	.1613+01	.4467-00	.1126+01	.5113-00	.1034+01
.80	.5176-01	.1068+00	.1530+01	.5668-00	.1123+01	.6551-00	.1025+01
.70	.1114+00	.2387-00	.1592+01	.6364-00	.1114+01	.7186-00	.1013+01
1.00	.1783-00	.3642-00	.1269+01	.7083-00	.1103+01	.7694-00	.1005+01
L1 - SUBSHELL							
.05	.1610-01	-.3628-00	.1770+01	.3383-00	.1143+01	.2486-01	.1160+01
.10	-.5496-02	-.3579-00	.1210+01	.6656-00	.1143+01	.2113-00	.1163+01
.15	-.1059-01	-.2208-00	.1006+01	.7686-00	.1143+01	.3096-00	.1121+01
.20	-.5241-02	-.5211-01	.1110+01	.7103-00	.1144+01	.4049-00	.1097+01
.30	.1809-01	.7837-01	.1239+01	.6630-00	.1140+01	.3507-00	.1056+01
.40	.4367-01	.1659-00	.1264+01	.6590-00	.1136+01	.6280-00	.1031+01
.50	.6922-01	.2300-00	.1256+01	.6594-00	.1132+01	.6739-00	.1018+01
.70	.1156+00	.3213-00	.1213+01	.6590-00	.1124+01	.7223-00	.1033+01
1.00	.1732-00	.4121-00	.1165+01	.7373-00	.1114+01	.7584-00	.1004+01
L2 - SUBSHELL							
.05	.2620-00	.6071-00	.1437+01	-.2003-00	.1117+01	.6043-00	.1077+01
.10	.2399-00	.6283-00	.1357+01	.2706-00	.1117+01	.6176-00	.1072+01
.15	.2594-00	.6403-00	.1313+01	.4030-00	.1117+01	.6274-00	.1069+01
.20	.2345-00	.6437-00	.1271+01	.5020-00	.1117+01	.6343-00	.1067+01
.30	.2543-00	.6571-00	.1227+01	.5813-00	.1117+01	.6435-00	.1063+01
.40	.2604-00	.6613-00	.1200+01	.6229-00	.1116+01	.6506-00	.1060+01
.50	.2612-00	.6637-00	.1182+01	.6688-00	.1116+01	.6561-00	.1059+01
.70	.2616-00	.6646-00	.1159+01	.6807-00	.1113+01	.6643-00	.1058+01
1.00	.2623-00	.6626-00	.1139+01	.7072-00	.1114+01	.6730-00	.1052+01
L3 - SUBSHELL							
.05	.9360-00	.6932-00	.1363+01	-.5603-01	.8048-00	-.3660-01	.1074+01
.10	.4524-00	.7261-00	.1289+01	-.2682-01	.7895-00	.1983-01	.1066+01
.15	.9469-00	.7439-00	.1242+01	-.6670-02	.7761-00	.8491-01	.1059+01
.20	.9457-00	.7514-00	.1182+01	.2432-01	.7620-00	.1281-00	.1031+01
.30	.9402-00	.7613-00	.1123+01	.6089-01	.7407-00	.2047-00	.1035+01
.40	.9286-00	.7723-00	.1106+01	.6278-01	.7237-00	.2650-00	.1018+01
.50	.9233-00	.7743-00	.1067+01	.1133+00	.7079-00	.3376-00	.9991-00
.70	.9174-00	.7770-00	.9982-00	.1662-00	.6806-00	.4714-00	.9589-00
1.00	.9150-00	.7818-00	.9148-00	.2326-00	.6463-00	.6422-00	.8931-00
TOTAL L - SHELL							
.05	.4737-01	.1380-00	.1402+01	-.3487-01	.8657-00	.3646-02	.1076+01
.10	.2703-01	.1432-00	.1322+01	.6371-01	.8797-00	.9028-01	.1070+01
.15	.2207-01	.1501-00	.1272+01	.1167+00	.9106-00	.1640-00	.1065+01
.20	.2803-01	.1786-00	.1223+01	.1758-00	.9335-00	.2166-00	.1061+01
.30	.4671-01	.2032-00	.1189+01	.2830-00	.9757-00	.2987-00	.1053+01
.40	.6984-01	.2466-00	.1178+01	.3629-00	.1004+01	.3523-00	.1047+01
.50	.9236-01	.2802-00	.1163+01	.4823-00	.1023+01	.4133-00	.1041+01
.70	.1341-00	.3430-00	.1143+01	.5378-00	.1047+01	.4992-00	.1030+01
1.00	.1861-00	.4200-00	.1122+01	.6396-00	.1065+01	.5913-00	.1020+01

TABLE 3.2.07

Z=64

PP 32. K AND L SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.20	-.5620-01	-.3299-00	.1765+01	.5659-00	.1143+01	-.3250-01	.1045+01
.30	-.4040-01	-.1744-00	.1655+01	.4517-00	.1137+01	.5015-00	.1030+01
.40	-.7152-02	-.3586-01	.1552+01	.5207-00	.1131+01	.5029-00	.1021+01
.50	.2421-01	.4603-01	.1467+01	.5751-00	.1126+01	.6568-00	.1014+01
.70	.7675-01	.1882-00	.1236+01	.6531-00	.1117+01	.7184-00	.1007+01
1.00	.1372-00	.3170-00	.1226+01	.7212-00	.1108+01	.7629-00	.1002+01
L1 - SUBSHELL							
.05	.1872-01	-.3739-00	.1783+01	.5470-00	.1143+01	-.3090-01	.1158+01
.10	-.2215-02	-.3669-00	.1365+01	.5936-00	.1143+01	.1931-00	.1143+01
.15	-.9305-02	-.2665-00	.1041+01	.7348-00	.1145+01	.2850-00	.1125+01
.20	-.7693-02	-.1333-00	.1010+01	.7474-00	.1145+01	.3703-00	.1105+01
.30	.6453-02	.1915-01	.1106+01	.7148-00	.1142+01	.5057-00	.1071+01
.40	.2606-01	.1172+00	.1149+01	.7037-00	.1138+01	.5836-00	.1047+01
.50	.6678-01	.1859-00	.1159+01	.7060-00	.1135+01	.6538-00	.1032+01
.70	.8377-01	.2797-00	.1147+01	.7229-00	.1125+01	.6908-00	.1017+01
1.00	.1360-00	.3701-00	.1120+01	.7492-00	.1114+01	.7329-00	.1010+01
L2 - SUBSHELL							
.05	.2406-00	.5965-00	.1442+01	.5163-00	.1116+01	.5002-00	.1078+01
.10	.2386-00	.6093-00	.1374+01	.2679-00	.1118+01	.5130-00	.1076+01
.15	.2383-00	.6208-00	.1331+01	.3560-00	.1118+01	.6223-00	.1071+01
.20	.2335-00	.6217-00	.1290+01	.4659-00	.1118+01	.6291-00	.1068+01
.30	.2326-00	.5325-00	.1246+01	.5537-00	.1117+01	.6388-00	.1065+01
.40	.2326-00	.6381-00	.1218+01	.5588-00	.1117+01	.6445-00	.1062+01
.50	.2331-00	.6402-00	.1200+01	.6274-00	.1117+01	.6497-00	.1060+01
.70	.2344-00	.6392-00	.1176+01	.6623-00	.1116+01	.6576-00	.1057+01
1.00	.2365-00	.6342-00	.1153+01	.6912-00	.1115+01	.6660-00	.1054+01
L3 - SUBSHELL							
.05	.9315-00	.6873-00	.1344+01	.6250-01	.8039-00	-.5664-01	.1075+01
.10	.9505-00	.7144-00	.1283+01	-.3771-01	.7928-00	.2095-01	.1067+01
.15	.9482-00	.7293-00	.1242+01	-.1515+01	.7811-00	.7498-01	.1059+01
.20	.9529-00	.7337-00	.1191+01	.1450-01	.7681-00	.1203+00	.1052+01
.30	.9432-00	.7456-00	.1124+01	.5064-01	.7483-00	.1968-00	.1053+01
.40	.9379-00	.7463-00	.1087+01	.8206-01	.7325-00	.2559-00	.1017+01
.50	.9320-00	.7490-00	.1049+01	.1112+00	.7177-00	.3279-00	.9978-00
.70	.9252-00	.7517-00	.9000-00	.1633-00	.6919-00	.4612-00	.9864-00
1.00	.9265-00	.7565-00	.8947-00	.2296-00	.6595-00	.6300-00	.8940-00
TOTAL L - SHELL							
.05	.4718-01	.1510-00	.1396+01	-.4342-01	.8424-00	-.1632-01	.1076+01
.10	.2796-01	.1387-00	.1330+01	.2650-01	.8754-00	.8474-01	.1071+01
.15	.2122-01	.1493-00	.1286+01	.9486-01	.9060-00	.1528-00	.1087+01
.20	.2220-01	.1627-00	.1237+01	.1646-00	.9310-00	.2066-00	.1068+01
.30	.3448-01	.1894-00	.1192+01	.2691-00	.9722-00	.2903-00	.1056+01
.40	.5161-01	.2203-00	.1169+01	.3535-00	.1001+01	.3498-00	.1049+01
.50	.7019-01	.2516-00	.1151+01	.4235-00	.1022+01	.4035-00	.1043+01
.70	.1048+00	.3091-00	.1127+01	.5304-00	.1048+01	.4371-00	.1034+01
1.00	.1498-00	.3805-00	.1103+01	.6332-00	.1067+01	.5754-00	.1024+01

TABLE 3.2.03

Z=88

PP 52 K RKD L SHELL

K	K1	E1/E2	E2	E2/E3	E3	E3/E4	E4
K - SHELL							
.30	-.4724-01	-.3041-00	.1585+01	.4917-00	.1159+01	.4734-00	.1015+01
.40	-.2495-01	-.1203-00	.1480+01	.5375-00	.1154+01	.5936-00	.1010+01
.50	.1238-02	-.2341-01	.1397+01	.6069-00	.1129+01	.6558-00	.1008+01
.70	.4649-01	.1283-00	.1279+01	.6755-00	.1121+01	.7119-00	.1002+01
1.00	.9994-01	.2623-00	.1183+01	.7330-00	.1112+01	.7522-00	.1001+01
L1 - SUBSHELL							
.05	.1947-01	-.3746-00	.1790+01	.5420-00	.1142+01	-.1021+00	.1156+01
.10	.1195-02	-.3626-00	.1471+01	.5408-00	.1145+01	.1731-00	.1143+01
.15	-.8806-02	-.3543-00	.1156+01	.6687-00	.1143+01	.2633-00	.1127+01
.20	-.9753-02	-.2118-00	.1023+01	.7416-00	.1145+01	.3426-00	.1111+01
.30	-.1730-02	-.4952-01	.1025+01	.7432-00	.1143+01	.4682-00	.1082+01
.40	.1240-01	.5753-01	.1061+01	.7348-00	.1140+01	.5433-00	.1060+01
.50	.2842-01	.1310-00	.1079+01	.7332-00	.1137+01	.5944-00	.1045+01
.70	.6032-01	.2293-00	.1087+01	.7409-00	.1131+01	.6564-00	.1027+01
1.00	.1030+00	.3211-00	.1081+01	.7573-00	.1122+01	.7042-00	.1010+01
L2 - SUBSHELL							
.05	.2196-00	.5902-00	.1446+01	-.4625-00	.1119+01	.5973-00	.1076+01
.10	.2168-00	.5896-00	.1389+01	.1358-00	.1119+01	.6087-00	.1075+01
.15	.2162-00	.5963-00	.1349+01	.5036-00	.1119+01	.6181-00	.1071+01
.20	.2156-00	.6073-00	.1313+01	.4058-00	.1119+01	.6236-00	.1069+01
.30	.2103-00	.6077-00	.1264+01	.3232-00	.1119+01	.6331-00	.1066+01
.40	.2105-00	.6120-00	.1237+01	.5730-00	.1112+01	.6363-00	.1063+01
.50	.2104-00	.6132-00	.1218+01	.6047-00	.1113+01	.6434-00	.1061+01
.70	.2113-00	.6116-00	.1193+01	.6428-00	.1118+01	.6510-00	.1058+01
1.00	.2139-00	.6053-00	.1171+01	.6741-00	.1117+01	.6589-00	.1056+01
L3 - SUBSHELL							
.05	.9234-00	.6765-00	.1515+01	-.7099-01	.8068-00	-.7081-01	.1075+01
.10	.9480-00	.6974-00	.1268+01	-.4512-01	.7959-00	.8796-02	.1067+01
.15	.9486-00	.7117-00	.1231+01	-.2396-01	.7854-00	.6444-01	.1060+01
.20	.9352-00	.7169-00	.1170+01	.6463-02	.7734-00	.1118+00	.1052+01
.30	.9489-00	.7282-00	.1120+01	.4019-01	.7552-00	.1032-00	.1035+01
.40	.9423-00	.7288-00	.1084+01	.7119-01	.7406-00	.2462-00	.1016+01
.50	.9370-00	.7314-00	.1046+01	.9983-01	.7268-00	.3182-00	.9961-00
.70	.9298-00	.7347-00	.9803-00	.1497-00	.7026-00	.4507-00	.9533-00
1.00	.9240-00	.7398-00	.8982-00	.2129-00	.6719-00	.6177-00	.8895-00
TOTAL L - SHELL							
.05	.4552-01	.1274-00	.1386+01	-.5160-01	.8393-00	-.3236-01	.1077+01
.10	.2870-01	.1263-00	.1334+01	.1562-01	.8716-00	.7137-01	.1072+01
.15	.1964-01	.1313-00	.1294+01	.7985-01	.9017-00	.1412-00	.1068+01
.20	.1881-01	.1482-00	.1248+01	.1468-00	.9268-00	.1967-00	.1064+01
.30	.2528-01	.1708-00	.1200+01	.2560-00	.9689-00	.2812-00	.1057+01
.40	.3787-01	.1983-00	.1172+01	.3396-00	.9993-00	.3407-00	.1051+01
.50	.5203-01	.2260-00	.1151+01	.4103-00	.1021+01	.3937-00	.1046+01
.70	.8022-01	.2781-00	.1122+01	.5182-00	.1049+01	.4752-00	.1027+01
1.00	.1181+00	.3436-00	.1097+01	.6221-00	.1070+01	.5593-00	.1022+01

TABLE 3.2.09

Z=92

PP 32 K AND L SHELL

K	M1	M1/E2	E2	E2/E3	M3	M3/E4	E4
K - SHELL							
.50	-.5231-01	-.4381-00	.1502+01	.5964-00	.1141+01	.4017-00	.1006+01
.40	-.3757-01	-.2255-00	.1397+01	.5667-00	.1136+01	.5690-00	.1003+01
.30	-.1734-01	-.1099+00	.1321+01	.6395-00	.1132+01	.6490-00	.1001+01
.70	.2051-01	.5804-01	.1219+01	.6571-00	.1124+01	.6990-00	.1000+01
1.00	.6656-01	.2007-00	.1145+01	.7455-00	.1116+01	.7374-00	.1001+01
L1 - SUBSHELL							
.05	.1730-01	-.3451-00	.1788+01	.3422-00	.1142+01	-.2123-00	.1156+01
.10	.4665-02	-.4186-00	.1560+01	.5030-00	.1144+01	.1514-00	.1142+01
.15	-.3481-02	-.3567-00	.1278+01	.6317-00	.1145+01	.2630-00	.1128+01
.20	-.9757-02	-.2780-00	.1106+01	.7031-00	.1145+01	.5201-00	.1115+01
.30	-.7068-02	-.1220+00	.1013+01	.7447-00	.1144+01	.4368-00	.1090+01
.40	.2149-02	-.1067-01	.1017+01	.7475-00	.1142+01	.5079-00	.1071+01
.50	.1375-01	.6662-01	.1030+01	.7673-00	.1139+01	.5580-00	.1056+01
.70	.5887-01	.1708-00	.1045+01	.7510-00	.1134+01	.6219-00	.1039+01
1.00	.7396-01	.2649-00	.1053+01	.7607-00	.1128+01	.6737-00	.1027+01
L2 - SUBSHELL							
.05	.1973-00	.5852-00	.1443+01	-.5852-00	.1120+01	.5950-00	.1079+01
.10	.1933-00	.5689-00	.1402+01	.6005-01	.1120+01	.5845-00	.1075+01
.15	.1931-00	.5792-00	.1356+01	.2769-00	.1120+01	.6115-00	.1073+01
.20	.1926-00	.5822-00	.1332+01	.3620-00	.1120+01	.6187-00	.1071+01
.30	.1875-00	.5789-00	.1283+01	.4912-00	.1120+01	.6275-00	.1067+01
.40	.1870-00	.5818-00	.1255+01	.5458-00	.1120+01	.6322-00	.1065+01
.50	.1867-00	.5820-00	.1236+01	.5606-00	.1119+01	.6370-00	.1063+01
.70	.1884-00	.5834-00	.1211+01	.6218-00	.1119+01	.6442-00	.1050+01
1.00	.1898-00	.5753-00	.1186+01	.6558-00	.1118+01	.6517-00	.1057+01
L3 - SUBSHELL							
.05	.9126-00	.6650-00	.1275+01	-.7836-01	.8073-00	-.3466-01	.1075+01
.10	.9436-00	.6793-00	.1243+01	-.5359-01	.7985-00	-.4820-02	.1057+01
.15	.9471-00	.6924-00	.1212+01	-.3282-01	.7892-00	.5350-01	.1060+01
.20	.9490-00	.7020-00	.1181+01	-.1306-01	.7798-00	.9420-01	.1052+01
.30	.9510-00	.7069-00	.1104+01	.3194-01	.7615-00	.1787-00	.1034+01
.40	.9466-00	.7075-00	.1070+01	.6247-01	.7481-00	.2359-00	.1015+01
.50	.9415-00	.7099-00	.1038+01	.9062-01	.7352-00	.3080-00	.9939-00
.70	.9338-00	.7159-00	.9775-00	.1362-00	.7126-00	.4398-00	.9490-00
1.00	.9282-00	.7207-00	.8974-00	.1975-00	.6838-00	.6050-00	.8844-00
TOTAL L - SHELL							
.05	.4110-01	.1257-00	.1366+01	-.5703-01	.8361-00	-.4933-01	.1077+01
.10	.2945-01	.1139+00	.1333+01	.2760-02	.8661-00	.5728-01	.1073+01
.15	.2044-01	.1229+00	.1295+01	.6873-01	.6980-00	.1304-00	.1069+01
.20	.1639-01	.1311-00	.1267+01	.1268-00	.9242-00	.1827-00	.1065+01
.30	.1866-01	.1505-00	.1203+01	.2395-00	.9659-00	.2716-00	.1059+01
.40	.2684-01	.1744-00	.1179+01	.3249-00	.9973-00	.3311-00	.1053+01
.50	.3706-01	.1983-00	.1156+01	.3961-00	.1020+01	.3829-00	.1048+01
.70	.5931-01	.2459-00	.1126+01	.5036-00	.1049+01	.4633-00	.1041+01
1.00	.9023-01	.3045-00	.1098+01	.6083-00	.1072+01	.5440-00	.1032+01

TABLE 3.2.10

Z=96

PP 6Z K AND L SHELL

K	H1	H1/E2	E2	E2/E3	E3	H3/E4	E4
K - SHELL							
.50	-.5209-01	-.5687-00	.1405+01	.5839-00	.1142+01	.2257-00	.1601+01
.40	-.4125-01	-.3819-00	.1515+01	.6321-00	.1138+01	.5444-00	.1600+01
.50	-.5109-01	-.1941-00	.1240+01	.6725-00	.1134+01	.6100-00	.1600+01
.70	-.1168-01	-.3966-01	.1153+01	.7264-00	.1128+01	.6675-00	.1601+01
1.00	.3751-01	.1546-00	.1098+01	.7562-00	.1120+01	.7090-00	.1603+01
L1 - SUBSHELL							
.10	.8030-02	-.4560-00	.1585+01	.4782-00	.1144+01	.1237+00	.1141+01
.15	-.2657-02	-.3806-00	.1372+01	.5884-00	.1145+01	.2320-00	.1129+01
.20	-.7641-02	-.3082-00	.1210+01	.6576-00	.1145+01	.3139-00	.1117+01
.30	-.1020-01	-.1831-00	.1054+01	.7295-00	.1145+01	.3950-00	.1096+01
.40	-.5184-02	-.7090-01	.1016+01	.7459-00	.1143+01	.4846-00	.1079+01
.50	.2690-02	-.2158-02	.1019+01	.7467-00	.1141+01	.5271-00	.1066+01
.70	.2139-01	.1047+00	.1027+01	.7516-00	.1136+01	.5898-00	.1049+01
1.00	.4942-01	.2028-00	.1058+01	.7584-00	.1129+01	.6438-00	.1035+01
L2 - SUBSHELL							
.05	.1735-00	.5846-00	.1424+01	.4852-00	.1121+01	.5932-00	.1079+01
.10	.1708-00	.5522-00	.1408+01	.1256-02	.1121+01	.5987-00	.1076+01
.15	.1676-00	.5455-00	.1372+01	.2217-00	.1121+01	.6078-00	.1074+01
.20	.1674-00	.5513-00	.1341+01	.3462-00	.1121+01	.6133-00	.1072+01
.30	.1677-00	.5557-00	.1308+01	.4329-00	.1121+01	.6225-00	.1069+01
.40	.1669-00	.5562-00	.1260+01	.4594-00	.1121+01	.6286-00	.1066+01
.50	.1608-00	.5591-00	.1254+01	.5564-00	.1121+01	.6333-00	.1064+01
.70	.1604-00	.5543-00	.1229+01	.6602-00	.1120+01	.6377-00	.1061+01
1.00	.1632-00	.5523-00	.1206+01	.6867-00	.1119+01	.6467-00	.1059+01
L3 - SUBSHELL							
.05	.9047-00	.6630-00	.1242+01	-.1002+00	.8673-00	-.9735-01	.1075+01
.10	.9370-00	.6590-00	.1204+01	-.6526-01	.8608-00	-.1976-01	.1059+01
.15	.9440-00	.6706-00	.1179+01	-.4572-01	.7925-00	.4122-01	.1060+01
.20	.9465-00	.6792-00	.1152+01	-.2715-01	.7642-00	.8198-01	.1051+01
.30	.9529-00	.6863-00	.1086+01	.1368-01	.7676-00	.1696-00	.1053+01
.40	.9488-00	.6860-00	.1054+01	.4345-01	.7554-00	.2256-00	.1012+01
.50	.9446-00	.6880-00	.1020+01	.7047-01	.7435-00	.2902-00	.9908-00
.70	.9373-00	.6902-00	.9612-00	.1172+00	.7228-00	.4293-00	.9451-00
1.00	.9315-00	.6942-00	.8858-00	.1739-00	.6962-00	.5925-00	.8777-00
TOTAL L - SHELL							
.10	.3007-01	.1012+00	.1323+01	-.9870-02	.8635-00	.4945-01	.1073+01
.15	.2057-01	.1074+00	.1294+01	.5159-01	.8827-00	.1154+00	.1070+01
.20	.1813-01	.1167+00	.1266+01	.1111+00	.9186-00	.1715-00	.1065+01
.30	.1621-01	.1330-00	.1222+01	.2145-00	.9609-00	.2593-00	.1061+01
.40	.1670-01	.1542-00	.1193+01	.3008-00	.9935-00	.3192-00	.1055+01
.50	.2319-01	.1674-00	.1166+01	.3764-00	.1017+01	.3747-00	.1051+01
.70	.4137-01	.2048-00	.1134+01	.4681-00	.1049+01	.4817-00	.1044+01
1.00	.6612-01	.2610-00	.1106+01	.5908-00	.1073+01	.5293-00	.1037+01

TABLE 3.3
 =====
 PARTICLE PARAMETER
 ϵ_2
 (STATIC)
 OF THE
 U SPELL
 FOR
 $\epsilon_1, \epsilon_2, \epsilon_3, \epsilon_4$
 POSITIONS

TABLE 2.3.91

7=72

PR 52 10 5000

K	01	01/02	02	02/03	03	03/04	04
01 = SUBSHELL							
.02	-.1990+01	-.1233+01	.1399+01	-.1917+00	.1249+01	.2750+00	.1073+01
.05	-.1947+01	.3700+01	.1401+01	.7330+01	.1251+01	.3601+00	.1079+01
.10	-.1926+01	.7058+01	.1401+01	.2855+00	.1172+01	.5141+00	.1080+01
.15	-.1894+01	.1194+00	.1399+01	.4441+00	.1074+01	.6621+00	.1081+01
.20	-.1861+01	.1470+00	.1388+01	.5485+00	.1014+01	.7257+00	.1079+01
.30	-.1764+01	.2087+00	.1371+01	.6235+00	.1003+01	.7468+00	.1077+01
.40	-.1654+01	.2650+00	.1359+01	.6487+00	.1016+01	.7425+00	.1074+01
.50	-.1558+01	.3113+00	.1359+01	.6668+00	.1023+01	.7455+00	.1072+01
.60	-.1509+01	.3532+00	.1313+01	.7031+00	.1023+01	.7576+00	.1067+01
1.00	-.1000+01	.4632+00	.1201+01	.7440+00	.1020+01	.7868+00	.1061+01

02 = SUBSHELL

.02	-.1442+01	.3345+00	.1507+01	.6278+00	.1143+01	.2673+01	.1087+01
.05	-.1286+01	.3969+00	.1503+01	.6570+00	.1136+01	.3512+00	.1084+01
.10	-.1178+01	.4493+00	.1503+01	.6581+00	.1124+01	.4575+00	.1086+01
.15	-.9638+00	.4853+00	.1505+01	.6592+00	.1115+01	.5322+00	.1087+01
.20	-.8127+00	.5074+00	.1504+01	.6718+00	.1107+01	.5432+00	.1083+01
.30	-.6802+00	.5394+00	.1503+01	.6553+00	.1097+01	.5185+00	.1084+01
.40	-.6039+00	.5604+00	.1502+01	.7026+00	.1090+01	.5350+00	.1085+01
.50	-.5504+00	.5736+00	.1501+01	.7093+00	.1085+01	.6529+00	.1085+01
.60	-.4535+00	.5972+00	.1298+01	.7188+00	.1078+01	.6712+00	.1085+01
1.00	-.3601+00	.6187+00	.1294+01	.7232+00	.1072+01	.6853+00	.1084+01

03 = SUBSHELL

.02	-.1596+01	.2420+01	.1092+00	.2721+01	.1142+01	.2164+00	.9242+00
.05	-.1340+01	.5568+01	.9780+01	.2086+01	.1155+01	.2143+01	.9191+00
.10	-.1079+01	.7515+01	.6061+01	.2586+01	.1118+01	.2113+01	.9162+01
.15	-.0800+00	.6977+01	.2214+01	.3009+01	.1104+01	.7274+01	.9025+00
.20	-.7523+00	.9871+01	-.1238+01	.8176+01	.1091+01	.1058+01	.8958+00
.30	-.5726+00	.1118+00	-.0909+01	.1473+00	.1067+01	.1574+00	.8811+00
.40	-.3073+00	.1515+00	-.1154+00	.2132+00	.1043+01	.2067+00	.8746+01
.50	-.2476+00	.1497+00	-.1517+00	.2770+00	.1019+01	.2554+00	.8661+01
.60	-.2400+01	.1913+00	-.2022+00	.3451+00	.9704+01	.3585+00	.8580+00
1.00	.1319+00	.2611+00	-.2558+00	.3475+00	.9010+00	.4453+00	.8555+01

Table 3.3.01 (Continued)

L=72

P=02 R=Shell

R	R1	R1/R2	R2	R2/R3	R3	R3/R4	R4
R4 - SUBSHELL							
.02	-.1070+01	.2603-00	.2752-00	.6455-00	.8746-00	-.1710-00	.6861-01
.05	-.7886-00	.1563-00	.7770-01	.7111-00	.5938-00	.3673-00	.8746-01
.10	-.5259-00	.1279-00	-.1022+00	.7935-00	.5312-00	.5968-00	.8056-01
.15	-.3699-00	.1594-00	-.1954-00	.8681-00	.4344-00	.8178-00	.8506-01
.20	-.2480-00	.1517-00	-.2357-00	.8906-00	.3676-00	.8943-00	.8514-01
.30	-.9841-01	.1513-00	-.3509-00	.9953-00	.2779-00	.9845-00	.8435-01
.40	.9626-02	.2077-00	-.3375-00	.9952-00	.2206-00	.1038+01	.8573-01
.50	.9053-01	.2315-00	-.3697-00	.1023+01	.1831-00	.1072+01	.8320-01
.70	.2129-00	.2790-00	-.4132-00	.1066+01	.1423-00	.1114+01	.8229-00
1.00	.5565-00	.3266-00	-.4226-00	.1101+01	.1291-00	.1162+01	.8112-00

R5 - SUBSHELL

.02	-.5639-00	.2739-00	-.6895-00	.9300-00	.8513-00	-.3734-01	.6543-00
.05	-.6701-00	.2079-00	-.1049+01	.9406-00	.7206-00	-.3993-01	.6402-00
.10	-.4576-00	.2319-00	-.1135+01	.9460-00	.6093-00	-.1449-02	.6214-00
.15	-.3350-00	.2683-00	-.1092+01	.9311-00	.5635-00	.2981-01	.6059-00
.20	-.2486-00	.3038-00	-.1018+01	.9190-00	.5034-00	.5368-01	.5981-00
.30	-.1196+00	.3676-00	-.1448-00	.8910-00	.4516-00	.1028+00	.5717-00
.40	-.1371-01	.4219-00	-.6899-00	.8709-00	.4181-00	.1462-00	.5541-00
.50	.6811-01	.4683-00	-.1502-00	.8574-00	.3961-00	.1863-00	.5389-00
.70	.2076-00	.5443-00	-.3164-00	.8456-00	.3749-00	.2502-00	.5136-00
1.00	.5293-00	.6331-00	-.3019-01	.8508-00	.3821-00	.3620-00	.4843-00

TOTAL R - SHELL

.02	-.1414+01	.4136-01	.8745-00	.8261-01	.1024+01	-.1205-01	.8584-00
.05	-.1437+01	.7649-01	.9334-00	.1122+00	.1094+01	.3901-01	.8901-00
.10	-.1429+01	.1200+00	.1041+01	.1553-00	.1093+01	.1044+00	.9130-00
.15	-.1421+01	.1556-00	.1097+01	.1987-00	.1038+01	.1553-00	.9276-00
.20	-.1414+01	.1823-00	.1136+01	.2377-00	.1063+01	.2085-00	.9392-00
.30	-.1377+01	.2368-00	.1184+01	.3063-00	.1071+01	.2946-00	.9579-00
.40	-.1320+01	.2832-00	.1209+01	.3663-00	.1061+01	.3679-00	.9723-00
.50	-.1230+01	.3259-00	.1223+01	.4156-00	.1053+01	.4312-00	.9837-00
.70	-.1091+01	.3992-00	.1235+01	.5107-00	.1039+01	.5334-00	.9995-00
1.00	-.0537-00	.4647-00	.1234+01	.6127-00	.1024+01	.6407-00	.1014+01

Table 5.3.02

Z=76

PP 02 R. SPALL

K	R1	R1/R2	R2	R2/R3	R3	R3/R4	R4
R1 - SUBSHELL							
.02	-.1940+01	-.2300-01	.1399+01	-.2562-00	.1229+01	.4166-00	.1078+01
.05	-.1944+01	.2905-01	.1600+01	.3417-01	.1247+01	.3791-00	.1079+01
.10	-.1917+01	.7892-01	.1602+01	.2451-00	.1190+01	.4842-00	.1080+01
.15	-.1885+01	.1168+00	.1598+01	.3871-00	.1114+01	.3987-00	.1080+01
.20	-.1842+01	.1508-00	.1593+01	.4425-00	.1053+01	.5786-00	.1080+01
.30	-.1752+01	.2102-00	.1579+01	.6000-00	.1005+01	.7412-00	.1078+01
.40	-.1642+01	.2638-00	.1564+01	.6437-00	.1001+01	.7534-00	.1076+01
.50	-.1527+01	.3112-00	.1550+01	.6884-00	.1004+01	.7579-00	.1073+01
.70	-.1301+01	.3906-00	.1526+01	.7027-00	.1008+01	.7628-00	.1069+01
1.00	-.1000+01	.4804-00	.1297+01	.7589-00	.1008+01	.7383-00	.1063+01

R2 - SUBSHELL

.02	-.1686+01	.3491-00	.1311+01	.6260-00	.1143+01	-.3430-01	.1067+01
.05	-.1269+01	.3904-00	.1310+01	.6257-00	.1140+01	.3148-00	.1067+01
.10	-.1101+01	.4861-00	.1309+01	.6478-00	.1128+01	.4743-00	.1067+01
.15	-.9677-00	.4691-00	.1308+01	.6609-00	.1118+01	.3336-00	.1066+01
.20	-.8727-00	.4930-00	.1308+01	.6706-00	.1111+01	.3669-00	.1066+01
.30	-.7461-00	.5253-00	.1308+01	.6841-00	.1101+01	.6046-00	.1066+01
.40	-.6627-00	.5466-00	.1306+01	.6931-00	.1093+01	.6266-00	.1066+01
.50	-.6014-00	.5622-00	.1305+01	.6996-00	.1090+01	.6414-00	.1066+01
.70	-.5135-00	.5841-00	.1303+01	.7090-00	.1082+01	.6607-00	.1065+01
1.00	-.4225-00	.6059-00	.1295+01	.7181-00	.1076+01	.6786-00	.1064+01

R3 - SUBSHELL

.02	-.1379+01	.5120-01	.1041+00	.2716-01	.1141+01	.9471-03	.9248-00
.05	-.1407+01	.5986-01	.1025+00	-.5535-02	.1136+01	.2195-01	.9202-00
.10	-.1139+01	.7732-01	.7510-01	.8626-02	.1121+01	.5056-01	.9123-00
.15	-.9670-00	.8901-01	.4347-01	.2932-01	.1108+01	.7824-01	.9032-00
.20	-.8164-00	.9763-01	.1385-01	.5380-01	.1093+01	.1651+00	.8991-00
.30	-.6906-00	.1126+00	-.3660-01	.1147+00	.1071+01	.1367-00	.8885-00
.40	-.6405-00	.1280-00	-.7776-01	.1756-00	.1047+01	.2036-00	.8794-00
.50	-.5129-00	.1449-00	-.1114+00	.2336-00	.1023+01	.2518-00	.8715-00
.70	-.1149+00	.1838-00	-.1301-00	.3492-00	.9742-00	.3357-00	.8577-00
1.00	.1017+00	.2512-00	-.1958-00	.4974-00	.9043-00	.4405-00	.8403-00

Table 3.3.02 (Continued)

Z=70

P2 D2 n Shell

K	a1	a1/a2	a2	a2/a3	a3	a3/a4	a4
n4 - SUBSHELL							
.02	-.1101+01	.2071-00	.2791-00	.6552-00	.8899-00	-.2575-00	.8661-01
.05	-.6551-00	.1730-00	.1250+00	.6123-00	.7225-00	.3211-00	.8775-01
.10	-.9558-00	.1257-00	-.5114-01	.7651-00	.3593-00	.6426-00	.6635-01
.15	-.4279-00	.1134-00	-.1748-00	.8175-00	.4587-00	.7953-00	.8600-01
.20	-.5214-00	.1661-00	-.1999-00	.8568-00	.3837-00	.6672-00	.8545-01
.30	-.1542-00	.1707-00	-.2813-00	.9225-00	.2541-00	.9549-00	.6471-01
.40	-.4891-01	.1955-00	-.5199-00	.9519-00	.2355-00	.1022+01	.8411-01
.50	.5207-01	.2183-00	-.5441-00	.9913-00	.1928-00	.1060+01	.6380-01
.70	.1605-00	.2557-00	-.3705-00	.1032+01	.1483-00	.1104+01	.8271-00
1.00	.2592-00	.5111-00	-.3329-00	.1067+01	.1320-00	.1133+01	.8138-00

n5 - SUBSHELL

.02	-.1000+01	.2921-00	-.6519-00	.9251-00	.6557-00	-.7644-01	.6552-00
.05	-.7129-00	.2145-00	-.9934-00	.9359-00	.7375-00	-.5061-01	.6432-00
.10	-.4923-00	.2318-00	-.1110+01	.9351-00	.6301-00	-.1373-01	.6262-00
.15	-.3551-00	.2882-00	-.1084+01	.9295-00	.5659-00	.1428-01	.6111-00
.20	-.2752-00	.3010-00	-.1017+01	.9052-00	.5250-00	.4130-01	.5995-00
.30	-.1420-00	.3642-00	-.1583-00	.8112-00	.4650-00	.6579-01	.5759-00
.40	-.5816-01	.4183-00	-.7067-00	.8808-00	.4330-00	.1258-00	.5651-00
.50	.4458-01	.4630-00	-.5660-00	.8473-00	.4085-00	.1646-00	.5487-00
.70	.1953-00	.5416-00	-.3319-00	.6355-00	.3825-00	.2361-00	.5243-00
1.00	.3663-00	.5295-00	-.6578-01	.6422-00	.3637-00	.3348-00	.4960-00

TOTAL n - SHELL

.02	-.1409+01	.3702-01	.8682-00	.6149-01	.1082+01	-.1741-01	.6542-00
.05	-.1441+01	.7497-01	.9467-00	.9723-01	.1093+01	.5534-01	.8863-00
.10	-.1431+01	.1182+00	.1034+01	.1489-00	.1093+01	.9707-01	.9100-00
.15	-.1416+01	.1526-00	.1092+01	.1885-00	.1091+01	.1513-00	.9247-00
.20	-.1399+01	.1832-00	.1133+01	.2274-00	.1056+01	.2000-00	.9364-00
.30	-.1351+01	.2357-00	.1184+01	.2854-00	.1073+01	.2852-00	.9352-00
.40	-.1302+01	.2826-00	.1213+01	.3543-00	.1065+01	.3579-00	.9399-00
.50	-.1252+01	.3266-00	.1250+01	.4070-00	.1058+01	.4206-00	.9317-00
.70	-.1079+01	.3562-00	.1246+01	.4956-00	.1041+01	.5218-00	.9386-00
1.00	-.6506-00	.6787-00	.1247+01	.5951-00	.1023+01	.6276-00	.1014+01

TABLE 3.3.03

Z=80

PP 02 n. Shell

K	E1	E1/n2	n2	n2/E3	E3	E3/n4	n4
M1 - SUBSHELL							
.02	-.1922+01	-.3437-01	.1399+01	-.3362-00	.1207+01	.4569-00	.1078+01
.05	-.1931+01	.2734-01	.1400+01	.1428-02	.1240+01	.3931-00	.1079+01
.10	-.1907+01	.7847-01	.1402+01	.2083-00	.1200+01	.4669-00	.1080+01
.15	-.1872+01	.1181+00	.1400+01	.3371-00	.1143+01	.3580-00	.1080+01
.20	-.1831+01	.1524-00	.1396+01	.4366-00	.1089+01	.6320-00	.1080+01
.30	-.1733+01	.2131-00	.1384+01	.5583-00	.1027+01	.7131-00	.1079+01
.40	-.1625+01	.2649-00	.1372+01	.6181-00	.1007+01	.7426-00	.1077+01
.50	-.1514+01	.3113-00	.1360+01	.6515-00	.1002+01	.7550-00	.1075+01
.70	-.1292+01	.3884-00	.1338+01	.6916-00	.1002+01	.7689-00	.1071+01
1.00	-.1000+01	.4749-00	.1311+01	.7268-00	.1003+01	.7855-00	.1066+01

M2 - SUBSHELL

.02	-.1479+01	.3444-00	.1318+01	.6245-00	.1142+01	-.1216+00	.1066+01
.05	-.1330+01	.3799-00	.1313+01	.6253-00	.1141+01	.2767-00	.1067+01
.10	-.1153+01	.4232-00	.1313+01	.6408-00	.1131+01	.4507-00	.1067+01
.15	-.1024+01	.4534-00	.1313+01	.6523-00	.1122+01	.5146-00	.1067+01
.20	-.9307-00	.4791-00	.1313+01	.6618-00	.1115+01	.5301-00	.1067+01
.30	-.8048-00	.5114-00	.1312+01	.6749-00	.1106+01	.5506-00	.1067+01
.40	-.7210-00	.5330-00	.1311+01	.6838-00	.1099+01	.6138-00	.1066+01
.50	-.6591-00	.5488-00	.1310+01	.6901-00	.1094+01	.6294-00	.1066+01
.70	-.5704-00	.5709-00	.1308+01	.6990-00	.1087+01	.6498-00	.1066+01
1.00	-.4789-00	.5928-00	.1305+01	.7077-00	.1080+01	.6684-00	.1065+01

M3 - SUBSHELL

.02	-.1593+01	.2778-01	.9786-01	.3180-01	.1140+01	-.2813-00	.9267-00
.05	-.1463+01	.5834-01	.1043+00	-.9207-02	.1137+01	.2096-01	.9211-00
.10	-.1238+01	.7743-01	.8643-01	-.5163-02	.1124+01	.4990-01	.9141-00
.15	-.1050+01	.8915-01	.8143-01	.9246-02	.1111+01	.7770-01	.9078-00
.20	-.9023-00	.9767-01	.3693-01	.3078-01	.1098+01	.1045+00	.9021-00
.30	-.8817-00	.1120+00	-.6256-02	.8220-01	.1075+01	.1560-00	.8922-00
.40	-.3172-00	.1264-00	-.4247-01	.1376-00	.1051+01	.2046-00	.8857-00
.50	-.3852-00	.1422-00	-.7266-01	.1932-00	.1027+01	.2503-00	.8781-00
.70	-.1790-00	.1790-00	-.1178+00	.3007-00	.9781-00	.3332-00	.8632-00
1.00	.4773-01	.2436-00	-.1532-00	.4441-00	.9077-00	.4363-00	.8467-00

TABLE 3.3.03 (Continued)

Z=80

PP, 62 n SHELL

K	#1	#1/#2	#2	#2/#3	#3	#3/#4	#4
64 - SUBSHELL							
.02	-.1139+01	.2179-00	.2556-00	.6168-00	.9082-00	-.3201-00	.8299-00
.05	-.9216-00	.1507-00	.1618-00	.8531-00	.7498-00	.2540-00	.8800-00
.10	-.6533-00	.1258-00	-.6971-03	.7289-00	.5867-00	.5967-00	.8699-00
.15	-.6929-00	.1295-00	-.9188-01	.7514-00	.4836-00	.7482-00	.8633-00
.20	-.5815-00	.1394-00	-.1496-00	.8201-00	.4109-00	.8337-00	.8582-00
.30	-.2294-00	.1633-00	-.2174-00	.8742-00	.3115-00	.9441-00	.8507-00
.40	-.1066+00	.1845-00	-.2698-00	.9243-00	.2470-00	.1006+01	.8449-00
.50	-.2576-01	.2061-00	-.2952-00	.9525-00	.2037-00	.1046+01	.8399-00
.70	.1032+00	.2432-00	-.3256-00	.9924-00	.1553-00	.1095+01	.8313-00
1.00	.2424-00	.2964-00	-.3387-00	.1026+01	.1357-00	.1125+01	.8203-00

65 - SUBSHELL

.02	-.1033+01	.3088-00	-.5817-00	.9133-00	.8533-00	-.8433-01	.6558-00
.05	-.7535-00	.2223-00	-.9540-00	.9220-00	.7495-00	-.6051-01	.6457-00
.10	-.5289-00	.2324-00	-.1079+01	.9219-00	.6474-00	-.2568-01	.6304-00
.15	-.5962-00	.2643-00	-.1071+01	.9086-00	.5942-00	-.3668-03	.6172-00
.20	-.3026-00	.2564-00	-.1013+01	.8938-00	.5410-00	.2474-01	.6060-00
.30	-.1660-00	.3611-00	-.8651-00	.8665-00	.4826-00	.7045-01	.5873-00
.40	-.5961-01	.4150-00	-.7166-00	.8451-00	.4473-00	.1063+00	.5716-00
.50	.2905-01	.4617-00	-.5790-00	.8355-00	.4207-00	.1638-00	.5579-00
.70	.1768-00	.5527-00	-.3460-00	.8245-00	.3904-00	.2130-00	.5347-00
1.00	.5513-00	.6256-00	-.7650-01	.8322-00	.3856-00	.5067-00	.5073-00

TOTAL 6 - SHELL

.02	-.1403+01	.3275-01	.8647-00	.8647-01	.1078+01	-.2299-01	.4502-00
.05	-.1448+01	.7178-01	.9409-00	.9213-01	.1092+01	.2697-01	.8827-00
.10	-.1436+01	.1160+00	.1028+01	.1386-00	.1096+01	.9001-01	.9071-00
.15	-.1414+01	.1517-00	.1088+01	.1795-00	.1094+01	.1435-00	.9221-00
.20	-.1393+01	.1826-00	.1130+01	.2173-00	.1089+01	.1916-00	.9358-00
.30	-.1344+01	.2365-00	.1185+01	.2843-00	.1079+01	.2759-00	.9527-00
.40	-.1287+01	.2825-00	.1216+01	.3423-00	.1069+01	.3477-00	.9677-00
.50	-.1216+01	.3239-00	.1235+01	.3937-00	.1060+01	.4094-00	.9796-00
.70	-.1066+01	.3935-00	.1255+01	.4797-00	.1045+01	.5087-00	.9978-00
1.00	-.8493-00	.4731-00	.1257+01	.5762-00	.1029+01	.6128-00	.1014+01

TABLE 3.3.04

Z=84

PP E2 H Shell

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
M1 - SUBSHELL							
.02	-.1892+01	-.4611-01	.1398+01	-.4194-00	.1183+01	.4990-00	.1078+01
.05	-.1913+01	.2343-01	.1400+01	-.3529-01	.1232+01	.4102-00	.1078+01
.10	-.1892+01	.7858-01	.1402+01	.1773-00	.1203+01	.4582-00	.1080+01
.15	-.1860+01	.1190+00	.1401+01	.2751-00	.1162+01	.5203-00	.1080+01
.20	-.1803+01	.1573-00	.1398+01	.3879-00	.1118+01	.5934-00	.1080+01
.30	-.1706+01	.2173-00	.1389+01	.5107-00	.1056+01	.6739-00	.1079+01
.40	-.1601+01	.2687-00	.1379+01	.5863-00	.1026+01	.7169-00	.1078+01
.50	-.1490+01	.3138-00	.1368+01	.6217-00	.1013+01	.7376-00	.1078+01
.70	-.1273+01	.3875-00	.1349+01	.6692-00	.1005+01	.7583-00	.1073+01
1.00	-.1000+01	.4656-00	.1326+01	.7080-00	.1004+01	.7760-00	.1068+01
M2 - SUBSHELL							
.02	-.1466+01	.3409-00	.1321+01	.6227-00	.1142+01	-.1953-00	.1068+01
.05	-.1367+01	.3699-00	.1319+01	.6214-00	.1142+01	.2368-00	.1068+01
.10	-.1227+01	.4052-00	.1318+01	.6375-00	.1153+01	.4262-00	.1068+01
.15	-.1077+01	.4426-00	.1317+01	.6473-00	.1126+01	.4805-00	.1067+01
.20	-.9873-00	.4657-00	.1317+01	.6559-00	.1120+01	.5212-00	.1067+01
.30	-.8625-00	.4973-00	.1316+01	.6656-00	.1110+01	.5763-00	.1067+01
.40	-.7790-00	.5193-00	.1316+01	.6741-00	.1103+01	.6004-00	.1067+01
.50	-.7167-00	.5332-00	.1315+01	.6803-00	.1095+01	.6170-00	.1067+01
.70	-.6273-00	.5576-00	.1313+01	.6888-00	.1091+01	.6384-00	.1066+01
1.00	-.5369-00	.5793-00	.1310+01	.6970-00	.1084+01	.6578-00	.1066+01
M3 - SUBSHELL							
.02	-.1605+01	.2345-01	.1396+01	.3923-01	.1140+01	-.2979-02	.9248-00
.05	-.1517+01	.5660-01	.1048+00	-.1057-01	.1138+01	.1981-01	.9220-00
.10	-.1310+01	.7770-01	.9485-01	-.1724-01	.1127+01	.4909-01	.9157-00
.15	-.1152+01	.9003-01	.7320-01	-.9621-02	.1114+01	.7714-01	.9099-00
.20	-.9870-00	.9879-01	.5690-01	.6556-02	.1102+01	.1041+00	.9047-00
.30	-.7653-00	.1128+00	.2112-01	.4986-01	.1078+01	.1355-00	.8955-00
.40	-.5572-00	.1265-00	-.9711-02	.9907-01	.1053+01	.2037-00	.8876-00
.50	-.4610-00	.1413-00	-.3600-01	.1499-00	.1031+01	.2491-00	.8806-00
.70	-.2468-00	.1764-00	-.7626-01	.2502-00	.9820-00	.3310-00	.8682-00
1.00	-.1009-01	.2364-00	-.1095+00	.3874-00	.9113-00	.4325-00	.8525-00

TABLE 3-3-04 (CONTINUED)

Z=84

P9 82 10 81 11

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
64 - SUBSHELL							
.02	-.1170+01	.2264-00	.2624-00	.6014-00	.9192-00	-.5972-00	.8512-00
.05	-.5819-00	.1578-00	.1693-00	.6278-00	.7758-00	.1863-00	.8824-00
.10	-.7159-00	.1267-00	.4260-01	.6961-00	.6139-00	.5491-00	.8727-00
.15	-.5576-00	.1265-00	-.4456-01	.7458-00	.5090-00	.7123-00	.8564-00
.20	-.4446-00	.1539-00	-.1006+00	.7529-00	.4339-00	.8085-00	.8615-00
.30	-.2927-00	.1550-00	-.1667-00	.8557-00	.3900-00	.9220-00	.8549-00
.40	-.1852-00	.1752-00	-.2077-00	.8715-00	.2820-00	.9881-00	.8486-00
.50	-.1007+00	.1958-00	-.2325-00	.8981-00	.2135-00	.1031+01	.8458-00
.70	.2766-01	.2345-00	-.2620-00	.9365-00	.1635-00	.1082+01	.8355-00
1.00	.1651-00	.2859-00	-.2771-00	.9689-00	.1404-00	.1115+01	.8249-00

65 - SUBSHELL

.02	-.1061+01	.3241-00	-.5400-00	.9028-00	.8438-00	-.9132-01	.6562-00
.05	-.7974-00	.2512-00	-.8741-00	.9066-00	.7559-00	-.6943-01	.6478-00
.10	-.5658-00	.2340-00	-.1042+01	.9087-00	.6617-00	-.4215-01	.6341-00
.15	-.4284-00	.2636-00	-.1052+01	.8957-00	.6001-00	-.1606-01	.6220-00
.20	-.3315-00	.2962-00	-.1007+01	.8810-00	.5570-00	.8363-02	.6117-00
.30	-.1904-00	.3562-00	-.1689-00	.8525-00	.4973-00	.5305-01	.5942-00
.40	-.0159-01	.4120-00	-.7250-00	.8329-00	.4577-00	.9200-01	.5795-00
.50	.0730-02	.4586-00	-.1904-00	.8195-00	.4291-00	.1289-00	.5567-00
.70	.1592-00	.5258-00	-.1583-00	.8096-00	.3948-00	.1963-00	.5446-00
1.00	.3557-00	.6237-00	-.1617-01	.8202-00	.3640-00	.2910-00	.5183-00

TOTAL 6 - SHELL

.02	-.1393+01	.2803-01	.8604-00	.8072-01	.1073+01	-.2677-01	.8481-00
.05	-.1456+01	.6632-01	.9527-00	.8744-01	.1090+01	.2071-01	.8795-00
.10	-.1449+01	.1134+00	.1025+01	.1315-00	.1097+01	.6257-01	.9044-00
.15	-.1417+01	.1504-00	.1084+01	.1654-00	.1097+01	.1344-00	.9196-00
.20	-.1384+01	.1839-00	.1127+01	.2051-00	.1093+01	.1815-00	.9314-00
.30	-.1325+01	.2379-00	.1165+01	.2735-00	.1064+01	.2667-00	.9505-00
.40	-.1268+01	.2840-00	.1219+01	.3304-00	.1075+01	.3373-00	.9658-00
.50	-.1200+01	.3245-00	.1241+01	.3802-00	.1066+01	.3901-00	.9783-00
.70	-.1057+01	.3917-00	.1262+01	.4635-00	.1051+01	.4952-00	.9970-00
1.00	-.0511-00	.4677-00	.1271+01	.5566-00	.1035+01	.5971-00	.1019+01

1. உதவி - உதவி

$$I = 1.0$$

$P_1' \neq 1$ 〃

12

41

-1 / 4

14

142/15

L 5

22/1

1. 2

1 - SEATTLE

002	-01030-01	-01030-01	02000-01	-02027-01	01101-01	02027-00	01070-01
003	-01030-01	01070-01	01030-01	-01070-01	01070-01	02027-00	01070-01
004	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
005	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
006	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
007	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
008	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
009	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
010	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
011	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
012	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
013	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
014	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
015	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
016	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
017	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
018	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
019	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01
020	-01030-01	01070-01	01030-01	01070-01	01070-01	02027-00	01070-01

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002	-0.140-01	0.507-00	0.1170-01	0.8745-00	0.1141-01	-0.2446-00	0.1000-01
003	-0.1410-01	0.5071-00	0.1187-01	0.8770-00	0.1142-01	0.1975-00	0.1100-01
010	-0.1201-01	0.7625-00	0.1522-01	0.8247-00	0.1136-01	0.0170-00	0.1108-01
011	-0.1379-01	0.7259-00	0.1541-01	0.8701-00	0.1129-01	0.5007-00	0.1004-01
020	-0.1601-01	0.7577-00	0.1521-01	0.8675-00	0.1127-01	0.0177-00	0.1000-01
030	-0.1660-00	0.6171-00	0.1501-01	0.6330-00	0.1119-01	0.5012-00	0.1001-01
040	-0.1300-00	0.5097-00	0.1509-01	0.8070-00	0.1107-01	0.5060-00	0.1007-01
050	-0.1700-00	0.5712-00	0.1300-01	0.8700-00	0.1102-01	0.0043-00	0.1007-01
060	-0.1057-00	0.7742-00	0.1012-01	0.0700-00	0.1055-01	0.0267-00	0.1000-01
1.000	-0.5521-00	0.5000-00	0.1010-01	0.0001-00	0.1000-01	0.0000-00	0.1000-01

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0.00	-0.1000-00	0.1992-01	0.1127-01	0.4120-00	0.1130-01	-0.7113-01	0.5227-00
0.05	-0.1301-01	0.3709-01	0.1507-00	-0.0207-00	0.1131-01	0.1371-01	0.9220-00
0.10	-0.1576-01	0.5109-00	0.1000+00	-0.7117-01	0.1127-01	0.1172-01	0.1170-00
0.15	-0.1812-01	0.6175-00	0.4782-01	-0.2070-01	0.1117-01	0.7000-01	0.9111-00
0.20	-0.1992-01	0.6902+00	0.1222-01	-0.1120-01	0.1103+01	0.1006+00	0.0077-00
0.25	-0.2102-00	0.7401+00	0.6513-01	0.1304-01	0.1002+01	0.1500+00	0.1903-00
0.30	-0.2159-00	0.7682-00	0.1991-01	0.0070-01	0.1000+00	0.0000-00	0.6512-01
0.35	-0.2170-00	0.7725-00	-0.2002-01	0.0162+00	0.1000+00	0.0000-00	0.0000-00
0.40	-0.2150-00	0.7603-00	-0.2041-01	0.0000-00	0.0999-00	0.0000+00	0.2725-00
1.00	-0.7112-00	0.2009-00	-0.0207-01	0.0000-00	0.9100-00	0.0291-00	0.0000-00

TABLE 3.3.05. (CONTINUED)

Z=88

PP-82 H-SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
H4 - SUBSHELL							
.02	-.1190+01	.2317-00	.2706-00	.5858-00	.9292-00	-.4661-00	.8926-00
.05	-.1046+01	.1675-00	.2136-00	.5970-00	.7996-00	.1187+00	.8346-00
.10	-.7920-00	.1305-00	.8495-01	.6570-00	.6406-00	.5003-00	.8755-00
.15	-.6309-00	.1263-00	.4263-02	.7633-00	.5347-00	.6737-00	.8684-00
.20	-.5176-00	.1309-00	-.4983-01	.7584-00	.4576-00	.7770-00	.8646-00
.30	-.3395-00	.1482-00	-.1170+00	.7696-00	.3497-00	.8585-00	.6577-00
.40	-.2495-00	.1675-00	-.1572-00	.8253-00	.2781-00	.9694-00	.6522-00
.50	-.1646-00	.1835-00	-.1834-00	.6519-00	.2292-00	.1015+01	.8478-00
.70	-.3407-01	.2223-00	-.2134-00	.8880-00	.1728-00	.1070+01	.8396-00
1.00	.1091+00	.2716-00	-.2306-00	.9194-00	.1461-00	.1105+01	.8295-00

H5 - SUBSHELL

.02	-.1088+01	.3402-00	-.4983-00	.8958-00	.8536-00	-.1033+00	.6365-00
.05	-.8383-00	.2406-00	-.6142-00	.8929-00	.7584-00	-.6029-01	.6496-00
.10	-.6034-00	.2368-00	-.9998-00	.8917-00	.6701-00	-.5288-01	.6374-00
.15	-.4616-00	.2634-00	-.1027+01	.8792-00	.6111-00	-.2832-01	.6264-00
.20	-.3610-00	.2946-00	-.9933-00	.8647-00	.5686-00	-.5065-02	.6169-00
.30	-.2158-00	.3556-00	-.6688-00	.8376-00	.5098-00	.3655-01	.6006-00
.40	-.1046+00	.4091-00	-.7308-00	.8176-00	.4693-00	.7436-01	.5869-00
.50	-.1233-01	.4557-00	-.5993-00	.8044-00	.4399-00	.1094+00	.5748-00
.70	.1407-00	.5329-00	-.3693-00	.7947-00	.4026-00	.1743-00	.5540-00
1.00	.3198-00	.6211-00	-.9914-01	.8067-00	.3871-00	.2043-00	.5268-00

TOTAL H - SHELL

.02	-.1360+01	.2239-01	.6572-00	.8097-01	.1068+01	-.3485-01	.8422-00
.05	-.1474+01	.6532-01	.9333-00	.6495-01	.1088+01	.1439-01	.8759-00
.10	-.1446+01	.1136+00	.1019+01	.1179+00	.1097+01	.7792-01	.9017-00
.15	-.1421+01	.1494-00	.1080+01	.1597-00	.1099+01	.1271-00	.9173-00
.20	-.1383+01	.1837-00	.1125+01	.1987-00	.1096+01	.1733-00	.9293-00
.30	-.1324+01	.2379-00	.1185+01	.2631-00	.1089+01	.2575-00	.9485-00
.40	-.1260+01	.2839-00	.1222+01	.3187-00	.1080+01	.3270-00	.9641-00
.50	-.1192+01	.3238-00	.1243+01	.3670-00	.1072+01	.3866-00	.9769-00
.70	-.1052+01	.3695-00	.1270+01	.4473-00	.1058+01	.4814-00	.9963-00
1.00	-.0544-00	.4627-00	.1281+01	.5367-00	.1043+01	.5806-00	.1013+01

Table 3.3.06

Z=92

PP b2 n Shell

K	E1	E1/m2	m2	m2/m3	E3	E3/m4	m4
E1 - SUBSHELL							
.02	-.1754+01	-.6779-01	.1400+01	-.5742-00	.1139+01	.5677-00	.1078+01
.05	-.1368+01	.1180-01	.1399+01	-.9472-01	.1212+01	.4479-00	.1075+01
.10	-.1851+01	.7826-01	.1401+01	.1162+00	.1205+01	.4578-00	.1079+01
.15	-.1821+01	.1220+00	.1402+01	.2072-00	.1112+01	.4993-00	.1080+01
.20	-.1761+01	.1620-00	.1401+01	.3067-00	.1155+01	.5409-00	.1080+01
.30	-.1669+01	.2224-00	.1399+01	.4220-00	.1108+01	.6669-00	.1080+01
.40	-.1566+01	.2727-00	.1369+01	.4450-00	.1075+01	.6519-00	.1078+01
.50	-.1460+01	.3157-00	.1382+01	.5445-00	.1054+01	.6813-00	.1078+01
.70	-.1260+01	.3645-00	.1367+01	.6056-00	.1032+01	.7149-00	.1076+01
1.00	-.1000+01	.4602-00	.1346+01	.6543-00	.1021+01	.7404-00	.1072+01
E2 - SUBSHELL							
.02	-.1480+01	.5375-00	.1331+01	.6186-00	.1141+01	-.3778-00	.1070+01
.05	-.1444+01	.5469-00	.1329+01	.6141-00	.1145+01	.1516-00	.1069+01
.10	-.1276+01	.5915-00	.1326+01	.6169-00	.1137+01	.3754-00	.1069+01
.15	-.1177+01	.6175-00	.1327+01	.6322-00	.1132+01	.4366-00	.1056+01
.20	-.1095+01	.6594-00	.1326+01	.6401-00	.1126+01	.4257-00	.1068+01
.30	-.9755-00	.6706-00	.1326+01	.6475-00	.1117+01	.5455-00	.1060+01
.40	-.8911-00	.6922-00	.1325+01	.6550-00	.1111+01	.5727-00	.1066+01
.50	-.8268-00	.5055-00	.1325+01	.6605-00	.1106+01	.5911-00	.1058+01
.70	-.7357-00	.5305-00	.1325+01	.6680-00	.1099+01	.6147-00	.1067+01
1.00	-.6478-00	.5528-00	.1321+01	.6731-00	.1092+01	.6356-00	.1067+01
E3 - SUBSHELL							
.02	-.1583+01	.1563-01	.7162-01	.5768-01	.1138+01	-.4602-00	.9250-00
.05	-.1617+01	.5205-01	.1010+00	-.5360-02	.1138+01	.1716-01	.9231-00
.10	-.1445+01	.6203-01	.1037+00	-.4991-01	.1128+01	.5023-01	.9185-00
.15	-.1262+01	.8759-01	.8997-01	-.1932-01	.1121+01	.7326-01	.9138-00
.20	-.1127+01	.9811-01	.7967-01	-.1510-01	.1110+01	.1008+00	.9095-00
.30	-.9566-00	.1187+00	.6594-01	-.1252-01	.1095+01	.1545-00	.9013-00
.40	-.7645-00	.1522-00	.4646-01	.2256-01	.1082+01	.2023-00	.8945-00
.50	-.6215-00	.1461-00	.2888-01	.6216-01	.1038+01	.2471-00	.8883-00
.70	-.5929-00	.1785-00	.1436-02	.1430-00	.9897-00	.3273-00	.8773-00
1.00	-.1369-00	.2359-00	-.2264-01	.2663-00	.9168-00	.4260-00	.8653-00

Table 3.3.03 (Continued)

Z=52

PP-32

E. Shell

K	E1	E1/62	E2	E2/E3	E3	E3/E4	E4
E4 - SUBSHELL							
.02	-.1200+01	.2322-00	.2506-00	.5840-00	.9400-00	-.5439-00	.8940-00
.05	-.1080+01	.1714-00	.2161-00	.9704-00	.8123-00	.8532-01	.8573-00
.10	-.8673-00	.1361-00	.1221+00	.6152-00	.6669-00	.4501-00	.8762-00
.15	-.7431-00	.1333-00	.7054-01	.6455-00	.5713-00	.6089-00	.8729-00
.20	-.9240-00	.1358-00	.1398-01	.5646-00	.4782-00	.7456-00	.8678-00
.30	-.4850-00	.1481-00	-.4618-01	.7137-00	.3702-00	.6740-00	.8810-00
.40	-.5499-00	.1649-00	-.8548-01	.7493-00	.2954-00	.9496-00	.8558-00
.50	-.2615-00	.1824-00	-.1111+00	.7736-00	.2639-00	.9986-00	.8514-00
.70	-.1141+00	.2147-00	-.1475-00	.8161-00	.1852-00	.1057+01	.8456-00
1.00	.3319-01	.2632-00	-.1664-00	.6481-00	.1528-00	.1095+01	.8340-00

N3 - SUBSHELL

.02	-.1110+01	.5523-00	-.4709-00	.8388-00	.8171-00	-.1148+00	.6565-00
.05	-.8768-00	.2525-00	-.7525-00	.6751-00	.7493-00	-.8528-01	.6509-00
.10	-.6417-00	.2405-00	-.9523-00	.6714-00	.6727-00	-.6213-01	.6403-00
.15	-.4962-00	.2628-00	-.4930-00	.8357-00	.6208-00	-.4971-01	.6203-00
.20	-.5723-00	.2898-00	-.1002+01	.8366-00	.5612-00	-.4908-02	.6199-00
.30	-.2441-00	.3532-00	-.8627-00	.8127-00	.5090-00	.3454-01	.6068-00
.40	-.1307-00	.4063-00	-.7318-00	.7923-00	.4693-00	.6996-01	.5937-00
.50	-.3412-01	.4531-00	-.6040-00	.7807-00	.4398-00	.1033+00	.5825-00
.70	.1316-00	.5311-00	-.3777-00	.7747-00	.4033-00	.1616-00	.5629-00
1.00	.3053-00	.6188-00	-.1087+00	.7897-00	.3861-00	.2482-00	.5591-00

TOTAL N - SHELL

.02	-.1359+01	.1672-01	.8548-00	.8302-01	.1063+01	-.4086-01	.6395-00
.05	-.1475+01	.3974-01	.9302-00	.8365-01	.1084+01	.9384-02	.6726-00
.10	-.1435+01	.1114+00	.1015+01	.1121+00	.1097+01	.7144-01	.8992-00
.15	-.1421+01	.1470-00	.1075+01	.1585-00	.1101+01	.1181+00	.9135-00
.20	-.1379+01	.1824-00	.1121+01	.1935-00	.1100+01	.1653-00	.9274-00
.30	-.1321+01	.2382-00	.1186+01	.2528-00	.1053+01	.2486-00	.9457-00
.40	-.1253+01	.2861-00	.1225+01	.3072-00	.1086+01	.3169-00	.9625-00
.50	-.1187+01	.3234-00	.1250+01	.3542-00	.1078+01	.3752-00	.9756-00
.70	-.1051+01	.3871-00	.1277+01	.4318-00	.1065+01	.4675-00	.9926-00
1.00	-.8601-00	.4578-00	.1291+01	.5176-00	.1051+01	.5636-00	.1013+01

TABLE 3.3.07

Z=96

P9-E2 N SHELL

N	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
E1 - SUBSHELL							
.02	-.1704+01	-.1154+00	.1400+01	-.6181-00	.1121+01	.3939-00	.1078+01
.05	-.1829+01	.4256-02	.1399+01	-.1432-00	.1201+01	.4681-00	.1078+01
.10	-.1821+01	.7781-01	.1401+01	.6788-01	.1203+01	.4632-00	.1079+01
.15	-.1795+01	.1235+00	.1402+01	.1776-00	.1186+01	.4929-00	.1079+01
.20	-.1754+01	.1659-00	.1401+01	.2767-00	.1165+01	.5254-00	.1080+01
.30	-.1652+01	.2245-00	.1398+01	.3846-00	.1126+01	.5805-00	.1080+01
.40	-.1549+01	.2746-00	.1393+01	.4554-00	.1096+01	.6221-00	.1079+01
.50	-.1443+01	.3167-00	.1388+01	.5054-00	.1075+01	.6514-00	.1079+01
.70	-.1249+01	.3838-00	.1374+01	.5695-00	.1051+01	.6879-00	.1077+01
1.00	-.1000+01	.4560-00	.1356+01	.6226-00	.1035+01	.7171-00	.1074+01

E2 - SUBSHELL

.02	-.1459+01	.3389-00	.1337+01	.6150-00	.1141+01	-.4658-00	.1070+01
.05	-.1470+01	.3410-00	.1335+01	.6113-00	.1143+01	.1045+00	.1070+01
.10	-.1318+01	.3804-00	.1333+01	.8131-00	.1139+01	.3404-00	.1069+01
.15	-.1189+01	.4134-00	.1333+01	.6194-00	.1134+01	.4140-00	.1069+01
.20	-.1143+01	.4269-00	.1331+01	.6326-00	.1129+01	.4642-00	.1069+01
.30	-.1026+01	.4574-00	.1331+01	.6387-00	.1121+01	.5300-00	.1069+01
.40	-.9455-00	.4788-00	.1331+01	.6435-00	.1115+01	.5583-00	.1068+01
.50	-.8636-00	.4949-00	.1330+01	.6505-00	.1110+01	.5775-00	.1068+01
.70	-.7949-00	.5174-00	.1329+01	.6574-00	.1103+01	.6022-00	.1068+01
1.00	-.7031-00	.5393-00	.1326+01	.6639-00	.1096+01	.6239-00	.1067+01

E3 - SUBSHELL

.02	-.1551+01	.7877-02	.6131-01	.6923-01	.1137+01	-.9117-02	.9251-00
.05	-.1643+01	.4861-01	.9513-01	.1672-02	.1139+01	.1471-01	.9235-00
.10	-.1506+01	.8216-01	.1046+00	-.5450-01	.1129+01	.4923-01	.9192-00
.15	-.1353+01	.9672-01	.9660-01	-.6795-01	.1119+01	.7775-01	.9153-00
.20	-.1209+01	.1016+00	.9059-01	-.3515-01	.1112+01	.9981-01	.9113-00
.30	-.1023+01	.1234+00	.8320-01	-.4197-01	.1088+01	.1540-00	.9039-00
.40	-.8502-00	.1373-00	.6939-01	-.1478-01	.1065+01	.2017-00	.8975-00
.50	-.7047-00	.1512-00	.5647-01	.1829-01	.1042+01	.2462-00	.8917-00
.70	-.4701-00	.1830-00	.3617-01	.9101-01	.9936-00	.3237-00	.8815-00
1.00	-.2037-00	.2387-00	.1865-01	.2023-00	.9227-00	.4233-00	.8682-00

TABLE 3.3.07 (CONTINUED)

Z=96

PP 32 in Shell

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
M4 - SUBSHELL							
.02	-.1196+01	.2269-00	.2226-00	.5714-00	.9434-00	-.5936-00	.8951-00
.05	-.1138+01	.1824-00	.2274-00	.5558-00	.8340-00	.1859-01	.9693-00
.10	-.9432-00	.1435-00	.1531-00	.5702-00	.6923-00	.3958-00	.8007-00
.15	-.8240-00	.1378-00	.1096+00	.5949-00	.3977-00	.5658-00	.8752-00
.20	-.7057-00	.1372-00	.6332-01	.6087-00	.5029-00	.7110-00	.8710-00
.30	-.5348-00	.1445-00	-.5153-02	.6621-00	.3918-00	.8479-00	.8643-00
.40	-.4220-00	.1593+00	-.3969-01	.6952-00	.3139-00	.9286-00	.8593-00
.50	-.3346-00	.1753-00	-.6340-01	.7158-00	.2598-00	.9509-00	.8550-00
.70	-.1969-00	.2071-00	-.9123-01	.7468-00	.1949-00	.1043+01	.8477-00
1.00	-.4605-01	.2536-00	-.1068+00	.7744-00	.1605-00	.1084+01	.8384-00

M5 - SUBSHELL

.02	-.1121+01	.3594-00	-.4575-00	.8735-00	.7843-00	-.1192+00	.6562-00
.05	-.9151-00	.2639-00	-.6901-00	.8525-00	.7349-00	-.8979-01	.6521-00
.10	-.6797-00	.2453-00	-.9009-00	.8490-00	.6882-00	-.6924-01	.6428-00
.15	-.5313-00	.2641-00	-.9565-00	.8363-00	.6207-00	-.4928-01	.6335-00
.20	-.4027-00	.2889-00	-.9796-00	.8131-00	.5614-00	-.1274-01	.6242-00
.30	-.2701-00	.3312-00	-.6337-00	.7930-00	.3144-00	.2028-01	.6119-00
.40	-.1341-00	.4040-00	-.7306-00	.7726-00	.4751-00	.5494-01	.6001-00
.50	-.3709-01	.4504-00	-.6072-00	.7607-00	.4451-00	.8747-01	.5896-00
.70	.1057+00	.5279-00	-.3846-00	.7537-00	.6043-00	.1475-00	.5713-00
1.00	.2871-00	.6160-00	-.1171+00	.7712-00	.3816-00	.2310-00	.5482-00

TOTAL M - SHELL

.02	-.1328+01	.9926-02	.8523-00	.8539-01	.1054+01	-.4494-01	.8364-00
.05	-.1476+01	.5517-01	.9270-00	.8237-01	.1081+01	.3477-02	.8695-00
.10	-.1466+01	.1092+00	.1012+01	.1069+00	.1097+01	.6519-01	.8967-00
.15	-.1417+01	.1489-00	.1072+01	.1393-00	.1102+01	.1138+00	.9132-00
.20	-.1383+01	.1823-00	.1120+01	.1872-00	.1102+01	.1579-00	.9256-00
.30	-.1324+01	.2379-00	.1186+01	.2435-00	.1097+01	.2400-00	.9452-00
.40	-.1255+01	.2838-00	.1227+01	.2965-00	.1091+01	.3069-00	.9612-00
.50	-.1186+01	.3228-00	.1254+01	.3421-00	.1086+01	.3639-00	.9746-00
.70	-.1031+01	.3853-00	.1284+01	.4166-00	.1073+01	.4537-00	.9932-00
1.00	-.8684-00	.4532-00	.1300+01	.4980-00	.1060+01	.5467-00	.1015+01

TABLE 3.4
=====

PARTICLE PARAMETERS

P2
(ST-TIC)

OF THE

II SHELL

FOR

E_1, E_2, E_3, E_4

TRANSITIONS

TABLE 3.4.01

Z=72

PP-62 H-SHELL

K	M1	M1/E2	E2	E2/M3	M3	M3/E4	E4
M1 - SUBSHELL							
.02	.1467-01	-.3624-00	.1776+01	.3554-00	.1143+01	.1494-01	.1099+01
.05	.5192-03	-.3326-00	.1450+01	.5533-00	.1144+01	.2008-00	.1136+01
.10	-.6021-02	-.1564-00	.1029+01	.7404-00	.1145+01	.3269-00	.1121+01
.15	.3017-02	.4814-04	.1293+01	.6339-00	.1144+01	.4334-00	.1094+01
.20	.1875-01	.6153-01	.1418+01	.5782-00	.1142+01	.5254-00	.1065+01
.30	.3590-01	.1777-00	.1473+01	.5577-00	.1137+01	.6463-00	.1024+01
.40	.9304-01	.2461-00	.1455+01	.5748-00	.1131+01	.7036-00	.1007+01
.50	.1275-00	.3020-00	.1420+01	.6005-00	.1126+01	.7325-00	.1002+01
.70	.1870-00	.3893-00	.1543+01	.6518-00	.1116+01	.7633-00	.1000+01
1.00	.2571-00	.4820-00	.1258+01	.7111-00	.1105+01	.7913-00	.1000+01
M2 - SUBSHELL							
.02	.2939-00	.6512-00	.1410+01	-.2524-00	.1117+01	.5982-00	.1079+01
.05	.2949-00	.6479-00	.1383+01	.1732-00	.1116+01	.6050-00	.1077+01
.10	.2952-00	.6711-00	.1314+01	.4171-00	.1116+01	.6193-00	.1072+01
.15	.2952-00	.6881-00	.1267+01	.5171-00	.1116+01	.6302-00	.1069+01
.20	.2976-00	.7061-00	.1234+01	.5724-00	.1115+01	.6385-00	.1066+01
.30	.2986-00	.7193-00	.1193+01	.6328-00	.1115+01	.6504-00	.1062+01
.40	.3001-00	.7262-00	.1168+01	.6657-00	.1115+01	.6587-00	.1059+01
.50	.3020-00	.7299-00	.1151+01	.6866-00	.1114+01	.6651-00	.1056+01
.70	.3067-00	.7331-00	.1130+01	.7126-00	.1113+01	.6743-00	.1053+01
1.00	.3147-00	.7339-00	.1111+01	.7350-00	.1112+01	.6846-00	.1050+01
M3 - SUBSHELL							
.02	.9610-00	.7394-00	.1356+01	-.9665-01	.8051-00	-.2545-01	.1073+01
.05	.9668-00	.7429-00	.1334+01	-.3530-01	.7951-00	.1730-01	.1075+01
.10	.9661-00	.7643-00	.1274+01	-.8543-02	.7777-00	.3262-01	.1066+01
.15	.9580-00	.7752-00	.1226+01	.1465-01	.7620-00	.9591-01	.1058+01
.20	.9475-00	.7898-00	.1196+01	.3232-01	.7483-00	.1369-00	.1051+01
.30	.9336-00	.7967-00	.1138+01	.7122-01	.7249-00	.2154-00	.1055+01
.40	.9242-00	.7994-00	.1092+01	.1059+00	.7050-00	.2909-00	.1018+01
.50	.9180-00	.8007-00	.1052+01	.1375-00	.6876-00	.3632-00	.1000+01
.70	.9116-00	.8023-00	.9823-00	.1933-00	.6578-00	.4974-00	.9619-00
1.00	.9102-00	.8065-00	.8995-00	.2534-00	.6209-00	.6700-00	.9034-00

TABLE 3.4.01 (CONTINUED)

Z=72

PP 62 R SHELL

K	R1	R1/E2	E2	E2/E3	E3	E3/E4	E4
M4 - SUBSHELL							
.02	.9156-00	.1683-00	-.8157-00	.7248-00	.7437-00	.7559-00	.9205-00
.05	.9131-00	.4161-00	-.1504-00	.6367-00	.7069-00	.7994-00	.8872-00
.10	.9181-00	.5553-00	-.5177-00	.5665-00	.6736-00	.8450-00	.8510-00
.15	.9247-00	.6172-00	-.1989-00	.5702-00	.6541-00	.8760-00	.8268-00
.20	.9305-00	.6536-00	-.1216+00	.5635-00	.6401-00	.9045-00	.8077-00
.30	.9395-00	.6953-00	-.2347-01	.5611-00	.6202-00	.9471-00	.7774-00
.40	.9466-00	.7194-00	.4142-01	.5636-00	.6035-00	.9822-00	.7527-00
.50	.9517-00	.7337-00	.8541-01	.5677-00	.5935-00	.1013+01	.7312-00
.70	.9591-00	.7566-00	.1379-00	.5782-00	.5740-00	.1066+01	.6947-00
1.00	.9664-00	.7759-00	.2250-00	.5947-00	.5509-00	.1130+01	.6506-00

M5 - SUBSHELL

.02	.9134-00	.3677-00	.7257-02	.9859-01	.9794-01	.1342-00	.9205-00
.05	.8670-00	.3260-00	.2483-02	.1212+00	.7682-01	.1418-00	.8914-00
.10	.8314-00	.5857-00	.2586-01	.1561-00	.4397-01	.1495-00	.8618-00
.15	.8111-00	.6007-00	.4064-01	.1796-00	.1377-01	.1821-00	.8427-00
.20	.7994-00	.6063-00	.5898-01	.2007-00	-.1169-01	.2176-00	.8278-00
.30	.7895-00	.6143-00	.1017+00	.2414-00	-.5086-01	.2895-00	.8040-00
.40	.7681-00	.6235-00	.1498-00	.2818-00	-.7891-01	.3597-00	.7835-00
.50	.7908-00	.6347-00	.1983-00	.3227-00	-.9761-01	.4264-00	.7645-00
.70	.8026-00	.6597-00	.2922-00	.4057-00	-.1102+00	.5493-00	.7290-00
1.00	.8246-00	.6993-00	.4104-00	.5256-00	-.7412-01	.7043-00	.6818-00

TOTAL M - SHELL

.02	.8600-01	.1639-00	.1353+01	-.3372-01	.8194-00	.5033-01	.9576-00
.05	.4141-01	.1689-00	.1352+01	.1262-01	.8439-00	.8862-01	.9930-00
.10	.3430-01	.1866-00	.1273+01	.8670-01	.8796-00	.1427-00	.1022+01
.15	.4144-01	.2039-00	.1234+01	.1320-00	.9098-00	.1967-00	.1033+01
.20	.5505-01	.2233-00	.1214+01	.2073-00	.9349-00	.2432-00	.1036+01
.30	.6734-01	.2593-00	.1195+01	.3034-00	.9727-00	.3206-00	.1037+01
.40	.1200+00	.2964-00	.1190+01	.3809-00	.9985-00	.3839-00	.1038+01
.50	.1506-00	.3332-00	.1188+01	.4450-00	.1017+01	.4376-00	.1029+01
.70	.2040-00	.4014-00	.1181+01	.5441-00	.1039+01	.5252-00	.1021+01
1.00	.2676-00	.4842-00	.1160+01	.6431-00	.1055+01	.6217-00	.1011+01

TABLE B.4.02

Z=76

PP BZ in Shell

R	m1	m1/E2	E2	E2/m3	m3	m3/E4	E4
M1 - SUBSHELL							
.02	.1444-01	-.3566-00	.1722+01	.3738-00	.1143+01	-.4030-01	.1073+01
.05	.2867-02	-.3317-00	.1536+01	.5138-00	.1144+01	.1933-00	.1131+01
.10	-.6357-02	-.2249-00	.1024+01	.7418-00	.1145+01	.3126-00	.1122+01
.15	-.2584-02	-.6364-01	.1092+01	.7167-00	.1144+01	.4022-00	.1102+01
.20	.6110-02	.3665-01	.1230+01	.6629-00	.1143+01	.4867-00	.1079+01
.30	.3683-01	.1494-00	.1332+01	.6241-00	.1139+01	.5962-00	.1042+01
.40	.6750-01	.2224-00	.1346+01	.6273-00	.1134+01	.6632-00	.1021+01
.50	.9694-01	.2791-00	.1322+01	.6431-00	.1129+01	.7019-00	.1011+01
.70	.1494-00	.3651-00	.1270+01	.6803-00	.1121+01	.7430-00	.1004+01
1.00	.2129-00	.4535-00	.1203+01	.7269-00	.1110+01	.7751-00	.1002+01
M2 - SUBSHELL							
.02	.2769-00	.6490-00	.1406+01	-.3570-00	.1118+01	.3968-00	.1079+01
.05	.2747-00	.6353-00	.1392+01	.1146+00	.1117+01	.6016-00	.1078+01
.10	.2734-00	.6543-00	.1331+01	.3744-00	.1117+01	.6142-00	.1074+01
.15	.2756-00	.6697-00	.1286+01	.4823-00	.1117+01	.6244-00	.1070+01
.20	.2753-00	.6787-00	.1254+01	.5427-00	.1116+01	.6324-00	.1067+01
.30	.2781-00	.6976-00	.1212+01	.6088-00	.1116+01	.6439-00	.1063+01
.40	.2792-00	.7040-00	.1186+01	.6430-00	.1116+01	.6521-00	.1060+01
.50	.2807-00	.7071-00	.1168+01	.6621-00	.1115+01	.6684-00	.1059+01
.70	.2844-00	.7093-00	.1145+01	.6966-00	.1114+01	.6677-00	.1055+01
1.00	.2910-00	.7099-00	.1125+01	.7211-00	.1113+01	.6773-00	.1052+01
M3 - SUBSHELL							
.02	.9599-00	.7369-00	.1337+01	-.8416-01	.8054-00	-.5655-01	.1075+01
.05	.9650-00	.7333-00	.1326+01	-.4306-01	.7973-00	.9310-02	.1075+01
.10	.9680-00	.7528-00	.1277+01	-.1766-01	.7821-00	.4357-01	.1067+01
.15	.9623-00	.7641-00	.1233+01	.4516-02	.7680-00	.8531-01	.1059+01
.20	.9556-00	.7731-00	.1196+01	.2630-01	.7554-00	.1304-00	.1051+01
.30	.9412-00	.7843-00	.1147+01	.5988-01	.7337-00	.2089-00	.1039+01
.40	.9320-00	.7878-00	.1101+01	.9363-01	.7131-00	.2839-00	.1018+01
.50	.9256-00	.7893-00	.1062+01	.1244+00	.6986-00	.3557-00	.9994-00
.70	.9165-00	.7913-00	.9923-00	.1764-00	.6704-00	.4888-00	.9596-00
1.00	.9156-00	.7935-00	.9086-00	.2461-00	.6330-00	.6592-00	.9000-00

TABLE 3.4.02 (CONTINUED)

Z=76

PP 62

H SHEL

K	N1	N1/E2	E2	E2/E5	N3	N3/E4	E4
H4 - SUBSHELL							
.02	.9155-00	.1515-00	-.9411-00	.7550-00	.7487-00	.7479-00	.9237-00
.05	.9126-00	.3331-00	-.6339-00	.6330-00	.7178-00	.7547-00	.8926-00
.10	.9160-00	.5122-00	-.4060-00	.6061-00	.6533-00	.8341-00	.8575-00
.15	.9218-00	.5824-00	-.2637-00	.5807-00	.6640-00	.8664-00	.8336-00
.20	.9274-00	.6241-00	-.1703-00	.5680-00	.6503-00	.8923-00	.8146-00
.30	.9366-00	.6719-00	-.5301-01	.5581-00	.6306-00	.9342-00	.7849-00
.40	.9435-00	.6996-00	.2301-01	.5563-00	.6162-00	.9388-00	.7598-00
.50	.9488-00	.7177-00	.7787-01	.5577-00	.6044-00	.9991-00	.7384-00
.70	.9566-00	.7412-00	.1538-00	.5648-00	.5834-00	.1051+01	.7019-00
1.00	.9644-00	.7625-00	.2249-00	.5729-00	.5627-00	.1114+01	.6577-00

H5 - SUBSHELL

.02	.9169-00	.3409-00	.2214-01	.9362-01	.9507-01	.1395-00	.9232-00
.05	.8785-00	.5061-00	.1221-01	.1290-00	.8533-01	.1093+00	.8966-00
.10	.8398-00	.5763-00	.3393-01	.1522-00	.5870-01	.1323-00	.8680-00
.15	.8191-00	.5978-00	.4983-01	.1739-00	.3078-01	.1572-00	.8493-00
.20	.8064-00	.6056-00	.6802-01	.1932-00	.8255-02	.1869-00	.8347-00
.30	.7958-00	.6150-00	.1094+00	.2303-00	-.2760-01	.2505-00	.8112-00
.40	.7933-00	.6244-00	.1550-00	.2675-00	-.5433-01	.3149-00	.7911-00
.50	.7951-00	.6355-00	.2036-00	.3038-00	-.7334-01	.3774-00	.7723-00
.70	.8054-00	.6604-00	.2948-00	.3840-00	-.9009-01	.4956-00	.7371-00
1.00	.8260-00	.6996-00	.4121-00	.5004-00	-.6590-01	.6504-00	.6598-00

TOTAL H - SHELL

.02	.5319-01	.1603-00	.1339+01	-.3922-01	.8172-00	.4220-01	.9547-00
.05	.4112-01	.1614-00	.1335+01	.3715-02	.8410-00	.3046-01	.9574-00
.10	.3179-01	.1760-00	.1282+01	.7413-01	.8751-00	.1349-00	.1018+01
.15	.3464-01	.1923-00	.1242+01	.1382-00	.9047-00	.1888-00	.1030+01
.20	.4367-01	.2089-00	.1215+01	.1959-00	.9297-00	.2356-00	.1035+01
.30	.6874-01	.2448-00	.1188+01	.2915-00	.9482-00	.3134-00	.1037+01
.40	.9562-01	.2757-00	.1174+01	.3711-00	.9952-00	.3764-00	.1034+01
.50	.1216+00	.3142-00	.1163+01	.4371-00	.1015+01	.4293-00	.1031+01
.70	.1682-00	.3784-00	.1152+01	.5368-00	.1039+01	.5142-00	.1023+01
1.00	.2254-00	.4568-00	.1132+01	.6392-00	.1057+01	.6066-00	.1014+01

TABLE 3.4.03

Z=80

PP 02 K-SHELL

K	M1	M1/E2	E2	E2/E3	M3	M3/E4	E4
M1 - SUBSHELL							
.02	.1364-01	-.4206-00	.1723+01	.3945-00	.1143+01	-.1297-00	.1057+01
.05	.5049-02	-.3381-00	.1373+01	.4893-00	.1143+01	.1230-00	.1124+01
.10	-.5869-02	-.2751-00	.1139+01	.6959-00	.1145+01	.3021-00	.1121+01
.15	-.5785-02	-.1336-00	.1005+01	.7490-00	.1145+01	.3796-00	.1106+01
.20	.6870-03	-.2304-01	.1073+01	.7250-00	.1144+01	.4467-00	.1089+01
.30	.2179-01	.1082+00	.1187+01	.6849-00	.1140+01	.5513-00	.1058+01
.40	.4629-01	.1881-00	.1220+01	.6773-00	.1136+01	.6199-00	.1036+01
.50	.7084-01	.2472-00	.1221+01	.6836-00	.1133+01	.6641-00	.1023+01
.70	.1160+00	.3331-00	.1195+01	.7074-00	.1123+01	.7143-00	.1011+01
1.00	.1723-00	.4188-00	.1154+01	.7410-00	.1115+01	.7524-00	.1006+01
M2 - SUBSHELL							
.02	.2358-00	.6430-00	.1402+01	-.4270-00	.1119+01	.5954-00	.1079+01
.05	.2534-00	.6232-00	.1399+01	.5497-01	.1118+01	.5985-00	.1078+01
.10	.2343-00	.6365-00	.1348+01	.3305-00	.1118+01	.6093-00	.1075+01
.15	.2545-00	.6494-00	.1304+01	.4462-00	.1118+01	.6168-00	.1071+01
.20	.2346-00	.6584-00	.1273+01	.5116-00	.1117+01	.6264-00	.1069+01
.30	.2346-00	.6635-00	.1230+01	.5533-00	.1117+01	.6376-00	.1069+01
.40	.2574-00	.6803-00	.1204+01	.6230-00	.1117+01	.6456-00	.1062+01
.50	.2585-00	.6828-00	.1186+01	.6483-00	.1116+01	.6517-00	.1060+01
.70	.2613-00	.6838-00	.1162+01	.6795-00	.1115+01	.6608-00	.1056+01
1.00	.2657-00	.6818-00	.1141+01	.7061-00	.1114+01	.6704-00	.1053+01
M3 - SUBSHELL							
.02	.9591-00	.7563-00	.1319+01	-.7539-01	.8987-00	-.6987-01	.1077+01
.05	.9622-00	.7236-00	.1311+01	-.5083-01	.7992-00	.4729-03	.1075+01
.10	.9685-00	.7397-00	.1273+01	-.2654-01	.7660-00	.3791-01	.1067+01
.15	.9657-00	.7523-00	.1233+01	-.4741-02	.7732-00	.2221-01	.1060+01
.20	.9603-00	.7600-00	.1200+01	.1577-01	.7618-00	.1237+00	.1052+01
.30	.9492-00	.7673-00	.1143+01	.3263-01	.7618-00	.2021-00	.1035+01
.40	.9391-00	.7745-00	.1108+01	.8174-01	.7245-00	.2769-00	.1017+01
.50	.9327-00	.7761-00	.1065+01	.1116+00	.7091-00	.3483-00	.9980-00
.70	.9250-00	.7782-00	.9997-00	.1646-00	.6822-00	.4801-00	.9573-00
1.00	.9209-00	.7826-00	.9158-00	.2296-00	.6485-00	.6484-00	.8960-00

TABLE 2.3.0.3 (Continued)

Z#80

PP 22 11 50 11

K	L1	L1/2	L2	L2/3	M5	M5/24	M6
44 - SUBSHELL							
.02	.9134-00	.7683-01	-.1669+01	.5034-00	.7250-00	.7429-00	.9260-00
.05	.9119-00	.2927-00	-.7697-00	.7010-00	.7252-00	.7760-00	.8561-00
.10	.9142-00	.4527-00	-.5115-00	.6413-00	.5925-00	.8255-00	.8614-00
.15	.9197-00	.5412-00	-.3440-00	.5164-00	.6757-00	.8549-00	.8403-00
.20	.9244-00	.5684-00	-.2341-00	.5770-00	.6602-00	.8805-00	.8215-00
.30	.9353-00	.6450-00	-.9539-01	.5590-00	.6410-00	.9213-00	.7915-00
.40	.9403-00	.6745-00	-.6800-02	.5522-00	.6265-00	.9252-00	.7870-00
.50	.9458-00	.6934-00	.5619-01	.5505-00	.6153-00	.9248-00	.7450-00
.70	.9539-00	.7214-00	.1414-00	.5557-00	.5967-00	.1025+01	.7072-00
1.00	.9621-00	.7457-00	.7184-00	.5644-00	.5746-00	.1097+01	.6650-00

45 - SUBSHELL

.02	.9207-00	.3160-00	.3866-01	.8738-01	.9074-01	.1475-00	.9253-00
.05	.8646-00	.4270-00	.1947-01	.1252-00	.8304-01	.1075+00	.9040-00
.10	.8775-00	.5695-00	.4157-01	.1442-00	.6727-01	.1180+00	.8753-00
.15	.8259-00	.5947-00	.5902-01	.1145-00	.6574-01	.1349-00	.8255-00
.20	.8141-00	.6038-00	.7747-01	.1873-00	.7627-01	.1565-00	.7417-00
.30	.8019-00	.6151-00	.1178-00	.1210-00	.5655-02	.2150-00	.8183-00
.40	.7544-00	.6250-00	.1625-00	.1550-00	.5046-01	.2708-00	.7986-00
.50	.7593-00	.6361-00	.2053-00	.2501-00	.4497-01	.3237-00	.7600-00
.70	.8092-00	.6608-00	.2934-00	.2637-00	.6820-01	.7407-00	.7453-00
1.00	.8275-00	.6995-00	.4145-00	.4153-00	.5422-01	.5951-00	.6951-00

TOTAL 4 - SHELL

.02	.4957-01	.1575-00	.1328+01	-.4713-01	.8155-00	.4604-01	.9575-00
.05	.4047-01	.1519-00	.1529+01	-.4455-02	.8383-00	.7475-01	.9522-00
.10	.3013-01	.1604-00	.1288+01	.6271-01	.8714-00	.1272-00	.1014+01
.15	.2974-01	.1798-00	.1250-01	.1252-00	.9061-00	.1269-00	.1028+01
.20	.3516-01	.1935-00	.1222+01	.1632-00	.9251-00	.2279-00	.1034+01
.30	.5130-01	.2271-00	.1183+01	.2802-00	.8662-00	.5055-00	.1037+01
.40	.7498-01	.2611-00	.1165+01	.3526-00	.9225-00	.5680-00	.1055+01
.50	.9653-01	.2831-00	.1152+01	.4269-00	.1013+01	.9207-00	.1032+01
.70	.1364-00	.3227-00	.1132+01	.5307-00	.1039+01	.5080-00	.1076+01
1.00	.1368-00	.4259-00	.1111+01	.6324-00	.1059+01	.5912-00	.1017+01

TABLE 3.4.04

Z=84

PP B2 in Shell

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
M1 - SUBSHELL							
.02	.1255-01	-.4553-00	.1691+01	.4166-00	.1143+01	-.2345-00	.1041+01
.05	.6883-02	-.3889-00	.1593+01	.4772-00	.1143+01	.1685-00	.1117+01
.10	-.4773-02	-.3421-00	.1260+01	.6465-00	.1144+01	.2935-00	.1119+01
.15	-.7106-02	-.1880-00	.1041+01	.7338-00	.1145+01	.3482-00	.1109+01
.20	-.4209-02	-.7895-01	.1004+01	.7506-00	.1144+01	.4093-00	.1095+01
.30	.1021-01	.5503-01	.1070+01	.7290-00	.1142+01	.5139-00	.1070+01
.40	.2501-01	.1414-00	.1112+01	.7182-00	.1139+01	.5792-00	.1050+01
.50	.4866-01	.2048-00	.1127+01	.7181-00	.1135+01	.6249-00	.1036+01
.70	.8855-01	.2921-00	.1125+01	.7303-00	.1128+01	.6810-00	.1022+01
1.00	.1356-00	.3774-00	.1108+01	.7523-00	.1119+01	.7250-00	.1013+01
M2 - SUBSHELL							
.02	.2323-00	.6349-00	.1397+01	-.4911-00	.1120+01	.5943-00	.1079+01
.05	.2310-00	.6102-00	.1403+01	-.4206-02	.1119+01	.5958-00	.1079+01
.10	.2328-00	.6208-00	.1360+01	.2854-00	.1119+01	.6048-00	.1076+01
.15	.2331-00	.6270-00	.1325+01	.3882-00	.1119+01	.6145-00	.1073+01
.20	.2292-00	.6254-00	.1291+01	.4798-00	.1119+01	.6217-00	.1070+01
.30	.2287-00	.6330-00	.1249+01	.5871-00	.1118+01	.6313-00	.1066+01
.40	.2292-00	.6377-00	.1222+01	.5998-00	.1118+01	.6390-00	.1063+01
.50	.2299-00	.6386-00	.1204+01	.6271-00	.1118+01	.6449-00	.1061+01
.70	.2320-00	.6383-00	.1175+01	.6612-00	.1117+01	.6538-00	.1058+01
1.00	.2366-00	.6333-00	.1157+01	.6900-00	.1116+01	.6630-00	.1055+01
M3 - SUBSHELL							
.02	.9573-00	.7322-00	.1289+01	-.6382-01	.8058-00	-.8328-01	.1076+01
.05	.9385-00	.7133-00	.1288+01	-.5826-01	.8008-00	-.1015-01	.1075+01
.10	.9680-00	.7276-00	.1264+01	-.3702-01	.7893-00	.2936-01	.1067+01
.15	.9674-00	.7387-00	.1230+01	-.1532-01	.7779-00	.7458-01	.1060+01
.20	.9656-00	.7459-00	.1199+01	.4789-02	.7678-00	.1166+00	.1052+01
.30	.9546-00	.7523-00	.1145+01	.4189-01	.7491-00	.1951-00	.1034+01
.40	.9464-00	.7556-00	.1102+01	.7350-01	.7330-00	.2698-00	.1016+01
.50	.9402-00	.7566-00	.1062+01	.1036+00	.7187-00	.3408-00	.9962-00
.70	.9319-00	.7589-00	.9943-00	.1530-00	.6936-00	.4713-00	.9842-00
1.00	.9263-00	.7627-00	.9084-00	.2207-00	.6614-00	.6374-00	.8915-00

TABLE 3.4.04 (CONTINUED)

Z=64

PP-02 H-SHELL

K	M1	M1/E2	E2	E2/M3	M3	M3/E4	E4
M4 - SUBSHELL							
.02	.9151-00	.2885-01	-.1197+01	.8375-00	.7361-00	.7387-00	.9286-00
.05	.9114-00	.2277-00	-.9131-00	.7431-00	.7319-00	.7675-00	.9028-00
.10	.9125-00	.4061-00	-.6330-00	.6618-00	.7012-00	.8130-00	.8699-00
.15	.9168-00	.4927-00	-.4429-00	.6175-00	.6830-00	.8435-00	.8467-00
.20	.9216-00	.5457-00	-.3145-00	.5912-00	.6700-00	.8682-00	.8282-00
.30	.9301-00	.6078-00	-.1525-00	.5642-00	.6512-00	.9082-00	.7985-00
.40	.9370-00	.6438-00	-.4991-01	.5519-00	.6375-00	.9413-00	.7741-00
.50	.9426-00	.6677-00	.2230-01	.5465-00	.6262-00	.9702-00	.7529-00
.70	.9510-00	.6980-00	.1187+00	.5452-00	.6082-00	.1020+01	.7166-00
1.00	.9596-00	.7249-00	.2036-00	.5527-00	.5869-00	.1080+01	.6725-00

M5 - SUBSHELL

.02	.9232-00	.2936-00	.4934-01	.8129-01	.8526-01	.1561-00	.9269-00
.05	.8899-00	.4670-00	.2725-01	.1221+00	.9062-01	.1092+00	.9051-00
.10	.8549-00	.5591-00	.4867-01	.1469-00	.7573-01	.1067+00	.8792-00
.15	.8342-00	.5883-00	.6791-01	.1661-00	.5858-01	.1155+00	.8615-00
.20	.8210-00	.6010-00	.8704-01	.1826-00	.4258-01	.1323-00	.8476-00
.30	.8078-00	.6144-00	.1269-00	.2133-00	.1476-01	.1775-00	.8251-00
.40	.8034-00	.6250-00	.1706-00	.2443-00	-.7506-02	.2260-00	.8058-00
.50	.8034-00	.6363-00	.2158-00	.2764-00	-.2405-01	.2803-00	.7877-00
.70	.8110-00	.6609-00	.3028-00	.3446-00	-.4530-01	.3848-00	.7538-00
1.00	.8287-00	.6993-00	.4171-00	.4505-00	-.3942-01	.5323-00	.7066-00

TOTAL H - SHELL

.02	.4543-01	.1487-00	.1310+01	-.5252-01	.8138-00	.3981-01	.9501-00
.05	.3933-01	.1419-00	.1320+01	-.1175-01	.8362-00	.6867-01	.9776-00
.10	.2874-01	.1497-00	.1292+01	.5111-01	.8681-00	.1195+00	.1010+01
.15	.2634-01	.1671-00	.1261+01	.1093+00	.8962-00	.1720-00	.1025+01
.20	.2832-01	.1800-00	.1230+01	.1688-00	.9210-00	.2192-00	.1033+01
.30	.4080-01	.2070-00	.1159+01	.2668-00	.9606-00	.2983-00	.1037+01
.40	.5717-01	.2365-00	.1163+01	.3481-00	.9896-00	.3607-00	.1037+01
.50	.7450-01	.2655-00	.1143+01	.4161-00	.1011+01	.4120-00	.1034+01
.70	.1076+00	.3198-00	.1120+01	.5211-00	.1039+01	.4917-00	.1029+01
1.00	.1510-00	.3872-00	.1096+01	.6242-00	.1061+01	.5758-00	.1021+01

TABLE 3.1.05

Z=88

PP 1/2 in Shell

K	01	11/12	22	33/44	55	66/77	88
11 - SUBSHELL							
.02	.1071-01	-.4723-00	.1630+01	.4895-00	.1143+01	-.5570-00	.1028-01
.05	.8515-02	-.7253-00	.1399+01	.4729-00	.1143+01	.1419-00	.1109-01
.10	-.2242-02	-.3501-00	.1554+01	.5492-00	.1144+01	.2838-00	.1117-01
.15	-.7073-02	-.2449-00	.1125+01	.6978-00	.1145+01	.5342-00	.1109-01
.20	-.6875-02	-.1474-00	.1032+01	.7583-00	.1144+01	.5875-00	.1090+01
.25	.1833-02	-.1082-01	.1014+01	.7477-00	.1142+01	.4830-00	.1074+01
.30	.1550-01	.8414-01	.1035+01	.7425-00	.1140+01	.5436-00	.1001+01
.35	.5093-01	.1513-00	.1056+01	.7411-00	.1137+01	.5882-00	.1044+01
.40	.6157-01	.2427-00	.1009+01	.7461-00	.1132+01	.6467-00	.1052+01
1.00	.1031+00	.3219-00	.1070+01	.7595-00	.1123+01	.6951-00	.1022+01

12 - SUBSHELL

.02	.2122-00	.6297-00	.1392+01	-.3528-00	.1122+01	.5926-00	.1073+01
.05	.2115-00	.6067-00	.1407+01	-.2128-01	.1121+01	.5933-00	.1079+01
.10	.2100-00	.6025-00	.1471+01	.2592-00	.1120+01	.6005-00	.1074+01
.15	.2103-00	.6039-00	.1541+01	.3423-00	.1120+01	.6095-00	.1074+01
.20	.2064-00	.6011-00	.1508+01	.4480-00	.1120-01	.6152-00	.1072+01
.30	.2064-00	.6065-00	.1257-01	.5292-00	.1119+01	.6251-00	.1060+01
.40	.2067-00	.6117-00	.1260-01	.5753-00	.1119+01	.6325-00	.1065-01
.50	.2075-00	.6175-00	.1222+01	.6045-00	.1119+01	.6382-00	.1063+01
.70	.2056-00	.6107-00	.1196+01	.6417-00	.1118+01	.6458-00	.1060+01
1.00	.2118-00	.6045-00	.1174+01	.6728-00	.1117+01	.6557-00	.1057+01

13 - SUBSHELL

.02	.9505-00	.7256-00	.1262+01	-.9571-01	.8053-00	-.9759-01	.1075+01
.05	.9544-00	.7048-00	.1264+01	-.6535-01	.8010-00	-.7270-01	.1074+01
.10	.9663-00	.7127-00	.1245+01	-.4537-01	.7920-00	.1974-01	.1067+01
.15	.9601-00	.7224-00	.1218+01	-.2425-01	.7820-00	.6619-01	.1054+01
.20	.9562-00	.7290-00	.1182+01	-.4408-02	.7726-00	.1092+01	.1051+01
.30	.9556-00	.7360-00	.1140+01	.5083-01	.7558-00	.1375-00	.1050-01
.40	.9515-00	.7391-00	.1099+01	.6224-01	.7410-00	.2625-00	.1014+01
.50	.9452-00	.7406-00	.1062+01	.9079-01	.7276-00	.5351-00	.9959-00
.70	.9570-00	.7425-00	.9962-00	.1407-00	.7041-00	.4528-00	.9506-00
1.00	.9307-00	.7456-00	.9138-00	.2031-00	.6740-00	.6264-00	.8204-00

TABLE 3.4.05 (CONTINUED)

Z=88

PP 32 N SHELL

K	M1	M1/E2	E2	E2/E3	E3	E3/E4	E4
M4 - SUBSHELL							
.02	.9146-00	-.1884-01	-.1298+01	.8680-00	.7592-00	.7342-00	.9305-00
.05	.9107-00	.1519-00	-.1099+01	.7962-00	.7363-00	.7598-00	.9072-00
.10	.9112-00	.3417-00	-.7329-00	.6882-00	.7114-00	.7969-00	.8756-00
.15	.9146-00	.4371-00	-.5570-00	.6441-00	.6920-00	.8322-00	.8529-00
.20	.9188-00	.4959-00	-.4113-00	.6108-00	.6794-00	.8561-00	.8347-00
.30	.9269-00	.5659-00	-.2258-00	.5744-00	.6613-00	.8951-00	.8054-00
.40	.9337-00	.6069-00	-.1081+00	.5561-00	.6479-00	.9272-00	.7813-00
.50	.9394-00	.6342-00	-.2561-01	.5466-00	.6370-00	.9554-00	.7602-00
.70	.9480-00	.6690-00	.8372-01	.5401-00	.6196-00	.1003+01	.7241-00
1.00	.9570-00	.6997-00	.1786-00	.5436-00	.5991-00	.1062+01	.6802-00

M5 - SUBSHELL

.02	.9253-00	.2741-00	.6055-01	.7351-01	.7850-01	.1670-00	.9278-00
.05	.8948-00	.4468-00	.3844-01	.1174+00	.9261-01	.1176+00	.9083-00
.10	.8644-00	.5457-00	.5638-01	.1522-00	.8424-01	.7828-01	.8834-00
.15	.8409-00	.5817-00	.7621-01	.1637-00	.6930-01	.9946-01	.8670-00
.20	.8276-00	.5970-00	.9637-01	.1792-00	.5637-01	.1097+00	.8536-00
.30	.8136-00	.6130-00	.1363-00	.2073-00	.3335-01	.1444-00	.8317-00
.40	.8051-00	.6245-00	.1791-00	.2354-00	.1403-01	.1872-00	.8128-00
.50	.8074-00	.6360-00	.2231-00	.2646-00	-.1661-02	.2334-00	.7952-00
.70	.8137-00	.6607-00	.3081-00	.3273-00	-.2183-01	.3290-00	.7618-00
1.00	.8200-00	.6938-00	.4207-00	.4268-00	-.2214-01	.4700-00	.7154-00

TOTAL M - SHELL

.02	.4112-01	.1445-00	.1295+01	-.8012-01	.8123-00	.3904-01	.9481-00
.05	.3837-01	.1327-00	.1310+01	-.2111-01	.8342-00	.6337-01	.9733-00
.10	.2845-01	.1425-00	.1291+01	.4092-01	.8653-00	.1106+00	.1006+01
.15	.2404-01	.1528-00	.1265+01	.9767-01	.8923-00	.1638-00	.1023+01
.20	.2373-01	.1637-00	.1236+01	.1563-00	.9174-00	.2112-00	.1031+01
.30	.3138-01	.1882-00	.1196+01	.2530-00	.9573-00	.2905-00	.1037+01
.40	.4328-01	.2152-00	.1168+01	.3343-00	.9872-00	.3527-00	.1038+01
.50	.5672-01	.2414-00	.1147+01	.4023-00	.1009+01	.4032-00	.1036+01
.70	.6347-01	.2901-00	.1118+01	.5079-00	.1039+01	.4806-00	.1032+01
1.00	.1199+00	.3515-00	.1093+01	.6117-00	.1063+01	.5608-00	.1023+01

TABLE 3.4.06

Z-97

FP 02 J Shell

K	m1	1/12	E2	E2/m3	m3	10/14	E4
E1 - SUBSHELL							
.02	.8638-02	-.4750-00	.1618+01	.4625-00	.1145+01	-.4665-00	.1019+01
.05	.5004-02	-.4059-00	.1597+01	.4739-00	.1143+01	.1221-00	.1161+01
.10	-.2510-03	-.5655-00	.1418+01	.5601-00	.1144+01	.2777-00	.1112+01
.15	-.6069-02	-.2955-00	.1235+01	.6506-00	.1145+01	.3225-00	.1109+01
.20	-.7350-02	-.2091-00	.1110+01	.7075-00	.1145+01	.5728-00	.1102+01
.30	-.5878-02	-.7700-01	.1022+01	.7110-00	.1144+01	.4581-00	.1083+01
.40	.5252-02	.1925-01	.1014+01	.7485-00	.1142+01	.5134-00	.1070+01
.50	.1562-01	.0025-01	.1021+01	.7450-00	.1139+01	.5554-00	.1059+01
.70	.4050-01	.1631-00	.1055+01	.7552-00	.1134+01	.6134-00	.1073+01
1.00	.7458-01	.2736-00	.1045+01	.7617-00	.1127+01	.6645-00	.1051+01

E2 - SUBSHELL

.02	.1851-00	.6160-00	.1589+01	-.5925-00	.1123+01	.5917-00	.1078+01
.05	.1580-00	.5957-00	.1407+01	-.7156-00	.1122+01	.5896-00	.1079+01
.10	.1856-00	.5831-00	.1311+01	.1510-00	.1122+01	.5960-00	.1077+01
.15	.1671-00	.5857-00	.1355+01	.3075-00	.1121+01	.6047-00	.1076+01
.20	.1630-00	.5753-00	.1524+01	.4110-00	.1121+01	.6109-00	.1075+01
.30	.1629-00	.5803-00	.1255+01	.5000-00	.1121+01	.6190-00	.1080+01
.40	.1851-00	.5819-00	.1259+01	.5255-00	.1120+01	.6260-00	.1068+01
.50	.1641-00	.5815+00	.1240+01	.5312-00	.1120+01	.6315-00	.1067+01
.70	.1055-00	.5825-00	.1214+01	.6205-00	.1119+01	.6597-00	.1061+01
1.00	.1370-00	.5745-00	.1191+01	.6544-00	.1119+01	.6724-00	.1050+01

E3 - SUBSHELL

.02	.9542-00	.7215-00	.1221+01	-.7045+00	.6050-00	-.1125+00	.1074+01
.05	.7567-00	.6915-00	.1224+01	-.7551-01	.6025-00	-.5258-01	.1073+01
.10	.4551+00	.6963-00	.1216+01	-.5335-01	.7944-00	.8872-02	.1067+01
.15	.5054-00	.7057-00	.1174+01	-.5251-01	.7862-00	.7327-01	.1055+01
.20	.5065-00	.7051+00	.1171+01	-.2137-02	.7765-00	.1232+00	.1051+01
.30	.5040-00	.7067+00	.1104+01	.5158-01	.7618-00	.1005-00	.1052+01
.40	.5375-00	.7101-00	.1057+01	.6150-01	.7482-00	.2550-00	.1012+01
.50	.5517-00	.7115-00	.1053+01	.6920-01	.7359-00	.5252-00	.9910+00
.70	.5427-00	.7169-00	.9770-00	.1341-00	.7140-00	.4540-00	.9403-00
1.00	.9354-00	.7209-00	.8972-00	.1947-00	.6850-00	.5131-00	.8806-00

TABLE 3.4.06 (CONTINUED)

Z=92

PP.02 N SHELL

K	M1	M1/E2	E2	E2/M3	M3	M3/E4	E4
M4 - SUBSHELL							
.02	.9140-00	-.3988-01	-.1373+01	.8910-00	.7618-00	.7304-00	.9318-00
.05	.9102-00	.8085-01	-.1247+01	.8409-00	.7442-00	.7520-00	.9112-00
.10	.9098-00	.2728-00	-.8802-00	.7283-00	.7191-00	.7370-00	.8860-00
.15	.9130-00	.3755-00	-.6753-00	.6749-00	.7004-00	.8251-00	.8805-00
.20	.9166-00	.4376-00	-.5173-00	.6355-00	.6884-00	.8480-00	.8427-00
.30	.9236-00	.5165-00	-.3149-00	.5897-00	.6712-00	.8816-00	.8122-00
.40	.9304-00	.5629-00	-.1829-00	.5654-00	.6583-00	.9128-00	.7684-00
.50	.9360-00	.5942-00	-.8909-01	.5312-00	.6477-00	.9402-00	.7674-00
.70	.9448-00	.6340-00	.3487-01	.5391-00	.6310-00	.9865-00	.7318-00
1.00	.9542-00	.6691-00	.1412-00	.5379-00	.6113-00	.1043+01	.6851-00

M5 - SUBSHELL

.02	.9265-00	.2588-00	.6614-01	.6349-01	.7028-01	.1306-00	.9250-00
.05	.8991-00	.4254-00	.4560-01	.1126+00	.9042-01	.1248+00	.9114-00
.10	.8706-00	.5327-00	.6198-01	.1496-00	.8827-01	.7615-01	.8878-00
.15	.8397-00	.5736-00	.7633-01	.1513-00	.7011-01	.1133+00	.3734-00
.20	.8277-00	.5916-00	.9634-01	.1674-00	.6014-01	.1166+00	.8606-00
.30	.8191-00	.6104-00	.1457-00	.2029-00	.4992-01	.1144+00	.8350-00
.40	.8128-00	.6232-00	.1874-00	.2283-00	.3394-01	.1489-00	.8197-00
.50	.8112-00	.6354-00	.2302-00	.2545-00	.2037-01	.1380-00	.8026-00
.70	.8164-00	.6601-00	.3144-00	.3115-00	.1738-02	.2734-00	.7701-00
1.00	.8312-00	.6979-00	.4214-00	.4045-00	.2910-02	.4057-00	.7244-00

TOTAL N - SHELL

.02	.3633-01	.1403-00	.1273+01	-.6490-01	.8105-00	.3908-01	.9462-00
.05	.3619-01	.1235+00	.1292+01	-.2544-01	.8321-00	.4868-01	.9698-00
.10	.2753-01	.1295-00	.1285+01	.3201-01	.8628-00	.1031+00	.1002+01
.15	.2242-01	.1377-00	.1266+01	.8704-01	.8902-00	.1667-00	.1021+01
.20	.2047-01	.1462-00	.1230+01	.1498-00	.9138-00	.2129-00	.1030+01
.30	.2411-01	.1685-00	.1193+01	.2440-00	.9546-00	.2825-00	.1038+01
.40	.3209-01	.1917-00	.1170+01	.3237-00	.9850-00	.3447-00	.1039+01
.50	.4199-01	.2148-00	.1149+01	.5907-00	.1008+01	.3944-00	.1038+01
.70	.6294-01	.2590-00	.1121+01	.4944-00	.1039+01	.4697-00	.1035+01
1.00	.9252-01	.3137-00	.1095+01	.5977-00	.1065+01	.5461-00	.1029+01

TABLE 3.4.67

Z=96

PP E2 in SHELL

K	E1	E1/E2	E2	E2/E3	E3	E3/E4	E4
P1 - SUBSHELL							
.02	.6612-02	-.4555-00	.1520+01	.4836-00	.1145-01	-.6077-00	.1014-01
.03	.5595-02	-.7971-00	.1526+01	.4789-00	.1143+01	.1044-00	.1992+01
.10	.1702-02	-.4003-00	.1457+01	.5463-00	.1147+01	.2563-00	.1110-01
.15	-.5877-02	-.2970-00	.1315+01	.6135-00	.1144+01	.3120-00	.1158-01
.20	-.7578-02	-.7334-00	.1197+01	.6706-00	.1145-01	.3392-00	.1102-01
.30	-.7315-02	-.1430-00	.1075+01	.7183-00	.1144+01	.4381-00	.1009+01
.40	-.7047-02	-.7839-01	.1034+01	.7367-00	.1143+01	.4683-00	.1077+01
.50	.5693-02	.2336-01	.1024+01	.7459-00	.1141+01	.5270-00	.1067+01
.70	.2546-01	.1210-00	.1026+01	.7505-00	.1137+01	.5327-00	.1052+01
1.00	.5034-01	.2121-00	.1036+01	.7571-00	.1130+01	.6342-00	.1039-01

P2 - SUBSHELL

.02	.1644-00	.6003-00	.1386+01	-.6181-00	.1125+01	.5901-00	.1078+01
.03	.1641-00	.5774-00	.1407+01	-.1739-00	.1124+01	.5877-00	.1079+01
.10	.1621-00	.5624-00	.1389+01	.1751-00	.1123+01	.5927-00	.1078+01
.15	.1636-00	.5602-00	.1388+01	.2556-00	.1122+01	.6002-00	.1070+01
.20	.1593-00	.5482-00	.1386+01	.3745-00	.1122+01	.6057-00	.1074+01
.30	.1609-00	.5354-00	.1302+01	.4698-00	.1122+01	.6130-00	.1070+01
.40	.1609-00	.5554-00	.1276+01	.5225-00	.1122+01	.6196-00	.1068+01
.50	.1610-00	.5523-00	.1258+01	.5585-00	.1121+01	.6248-00	.1066+01
.70	.1613-00	.5475-00	.1232+01	.5891-00	.1121+01	.6326-00	.1063+01
1.00	.1624-00	.5370-00	.1205+01	.6549-00	.1120+01	.6407-00	.1060+01

P3 - SUBSHELL

.02	.9509-00	.7098-00	.1172+01	-.1110+00	.8052-00	-.1262-00	.1073+01
.03	.9452-00	.6841-00	.1194+01	-.9075-01	.8037-00	-.8295-01	.1072+01
.10	.9553-00	.6775-00	.1170+01	-.6070-01	.7964-00	-.3585-00	.1066+01
.15	.9610-00	.6855-00	.1160+01	-.3976-01	.7892-00	.6631-01	.1058+01
.20	.9676-00	.6801-00	.1109+01	-.6166-02	.7804-00	.1155+00	.1050+01
.30	.9651-00	.6665-00	.1084+01	.2034-01	.7672-00	.1725-00	.1030+01
.40	.9601-00	.6894-00	.1050+01	.5009-01	.7549-00	.2470-00	.1009+01
.50	.9550-00	.6905-00	.1017+01	.7807-01	.7435-00	.3171-00	.9677-00
.70	.9467-00	.6912-00	.9561-00	.1254-00	.7232-00	.4450-00	.9415-00
1.00	.9390-00	.6954-00	.8214-00	.1842-00	.6970-00	.6036-00	.8741-00

TABLE 3.4.07 (CONTINUED)

Z=96

PP B2 6 SHELL

K	M1	M1/E2	E2	E2/M3	M3	M3/E4	E4
M4 - SUBSHELL							
.02	.9134-00	-.8531-01	-.1411+01	.9019-00	.7634-00	.7271-00	.9327-00
.05	.9099-00	.1010-01	-.1388+01	.8849-00	.7492-00	.7453-00	.9147-00
.10	.9085-00	.1981-00	-.1030+01	.7713-00	.7264-00	.7769-00	.8860-00
.15	.9113-00	.3059-00	-.7284-00	.6869-00	.7134-00	.8001-00	.8682-00
.20	.9143-00	.3724-00	-.6445-00	.6663-00	.6971-00	.8365-00	.8488-00
.30	.9208-00	.4394-00	-.4213-00	.6109-00	.6807-00	.8682-00	.8190-00
.40	.9271-00	.5114-00	-.2741-00	.5800-00	.6604-00	.8983-00	.7954-00
.50	.9326-00	.5469-00	-.1692-00	.5612-00	.6582-00	.9247-00	.7747-00
.70	.9414-00	.5927-00	-.3043-01	.5428-00	.6423-00	.9692-00	.7395-00
1.00	.9512-00	.6333-00	.9013-01	.5339-00	.6235-00	.1024+01	.6962-00

M5 - SUBSHELL

.02	.9291-00	.2455-00	.6912-01	.5359-01	.6152-01	.1929-00	.9278-00
.05	.9025-00	.4046-00	.5198-01	.1063+00	.8657-01	.1371-00	.9139-00
.10	.8764-00	.5184-00	.6656-01	.1471-00	.9043-01	.7691-01	.8916-00
.15	.8509-00	.5612-00	.8509-01	.1655-00	.8201-01	.5747-01	.8768-00
.20	.8333-00	.5855-00	.1066+00	.1658-00	.7041-01	.1006+00	.8660-00
.30	.8244-00	.6072-00	.1350-00	.1997-00	.6436-01	.8787-01	.8440-00
.40	.8174-00	.6212-00	.1968-00	.2227-00	.5189-01	.1134+00	.8283-00
.50	.8151-00	.6340-00	.2392-00	.2462-00	.4079-01	.1454-00	.8098-00
.70	.8189-00	.6590-00	.3210-00	.2977-00	.2453-01	.2194-00	.7782-00
1.00	.8324-00	.6968-00	.4283-00	.3826-00	.1764-01	.3409-00	.7335-00

TOTAL M - SHELL

.02	.3152-01	.1376-00	.1249+01	-.6747-01	.8089-00	.3975-01	.9442-00
.05	.3357-01	.1145+00	.1280+01	-.3597-01	.8309-00	.4341-01	.9666-00
.10	.2654-01	.1163+00	.1275+01	.2429-01	.8606-00	.9565-01	.9981-00
.15	.2182-01	.1287-00	.1263+01	.7706-01	.8878-00	.1544-00	.1018+01
.20	.1826-01	.1284-00	.1231+01	.1398-00	.9111-00	.2051-00	.1029+01
.30	.1897-01	.1494-00	.1205+01	.2304-00	.9322-00	.2749-00	.1038+01
.40	.2365-01	.1693-00	.1181+01	.3093-00	.9833-00	.3367-00	.1040+01
.50	.3041-01	.1890-00	.1161+01	.3757-00	.1007+01	.3857-00	.1040+01
.70	.4576-01	.2256-00	.1132+01	.4791-00	.1040+01	.4590-00	.1038+01
1.00	.6890-01	.2732-00	.1104+01	.5817-00	.1067+01	.5320-00	.1034+01

TABLE 3.5
=====

PARTICLE PARAMETER

B4
(STATIC)

OF THE L3 - SUBSHELL

TABLE 3.5

PP 84 L3-SUBSHELL

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
Z=60										
.02	-.1618-00	-.1998-02	.6595-01	-.9516-02	.1437+01	.3853-02	.4467-01	.3150+01	.2998-03	.7574-00
.05	.8076-01	.7168-03	-.9901-01	.2014+01	.1396+01	.4632-01	.7502-01	.2868-01	.1077-01	.7169-00
.10	.3383-00	.5091-02	-.3487-00	.4491-01	.1348+01	.6781-01	.1091+00	.2551+01	.2599-01	.6568-00
.15	.4604-00	.2655-02	-.5310-00	.7959-01	.1310+01	.6563-01	.1320-00	.2352+01	.3979-01	.6129-00
.20	.5365-00	-.1489-03	-.6824-00	.1036+00	.1275+01	.5638-01	.1504-00	.2186-01	.5319-01	.5750-00
.30	.6170-00	-.9141-02	-.9282-00	.1449-00	.1205+01	.3475-01	.1773-00	.1887-01	.7948-01	.5122-00
.40	.6655-00	-.1905-01	-.1119+01	.1387-00	.1134+01	.1604-01	.1981-00	.1644-01	.1031+00	.4647-00
.50	.6940-00	-.2877-01	-.1281+01	.2301-00	.1059+01	.2465+02	.2124-00	.1399+01	.1250-00	.4235-00
.70	.7191-00	-.4525-01	-.1549+01	.3038-00	.8988-00	-.1099-01	.2323-00	.9324-00	.1640-00	.3543-00
1.00	.7246-00	-.5887-01	-.1864+01	.3949-00	.6557-00	.4920-03	.2532-00	.3057-00	.2111-00	.2698-00

Z=64

.02	-.1672-00	-.1954-02	.7046-01	-.1526-01	.1441+01	.4027-03	.4037-01	.3170+01	-.6262-03	.7599-00
.05	.2130-01	-.3703-03	-.5784-01	.1487-01	.1404+01	.3848-01	.6830-01	.2927+01	.1043-01	.7265-00
.10	.2746-00	.3297-02	-.2855-00	.3981-01	.1356+01	.5644-01	.1005+00	.2619-01	.2339-01	.6713-00
.15	.3981-00	.4967-03	-.4545-00	.7493-01	.1318+01	.7042-01	.1226+00	.2421-01	.3954-01	.6310-00
.20	.4776-00	-.2523-02	-.5978-00	.5883-01	.1283+01	.6641-01	.1407-00	.2254+01	.5296-01	.5954-00
.30	.5626-00	-.1184-01	-.8326-00	.1396-00	.1211+01	.5173-01	.1674-00	.1952+01	.7935-01	.5558-00
.40	.6154-00	-.2212-01	-.1017+01	.1833-00	.1137+01	.3741-01	.1885-00	.1706+01	.1028+00	.4902-00
.50	.6475-00	-.3226-01	-.1174+01	.2246-00	.1061+01	.2649-01	.2032-00	.1459+01	.1245+00	.4505-00
.70	.6782-00	-.4981-01	-.1435+01	.2979-00	.3967-00	.1508-01	.2241-00	.9859-00	.1628-00	.3635-00
1.00	.6901-00	-.6559-01	-.1747+01	.3883-00	.5400-00	.2510-01	.2460-00	.5489-00	.2087-00	.3014-00

Z=68

.05	-.3021-01	-.1213-02	-.2316-01	.1056-01	.1410+01	.3053-01	.6183-01	.2977+01	.9581-02	.7343-00
.10	.1900-00	.1743-03	-.2295-00	.3439-01	.1363+01	.6275-01	.9206-01	.2663-01	.2598-01	.6848-00
.15	.3359-00	-.1281-02	-.3858-00	.7022-01	.1325+01	.7203-01	.1138+00	.2486+01	.3942-01	.6471-00
.20	.4175-00	-.4462-02	-.5207-00	.9398-01	.1269+01	.7286-01	.1316-00	.2320+01	.5284-01	.6138-00
.30	.5058-00	-.1404-01	-.7439-00	.1343-00	.1215+01	.6517-01	.1581-00	.2015+01	.7925-01	.5569-00
.40	.5620-00	-.2463-01	-.9208-00	.1778-00	.1140+01	.3561-01	.1794-00	.1768+01	.1020+00	.5136-00
.50	.5971-00	-.3515-01	-.1072+01	.2191-00	.1062+01	.4776-01	.1946-00	.1519+01	.1241+00	.4757-00
.70	.6427-00	-.5366-01	-.1326+01	.2920-00	.8936-00	.3960-01	.2145-00	.1041+01	.1619-00	.4111-00
1.00	.6509-00	-.7143-01	-.1632+01	.3618-00	.5391-00	.4987-01	.2397-00	.3949-00	.2960-00	.3517-00

TABLE 3.5 (CONTINUED)

PP B4 L3-SUBSHELL

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
Z=72										
.05	-.7777-01	-.1698-02	.4621-02	.3614-02	.1415+01	.2298-01	.5573-01	.3015+01	.9889-02	.7403-00
.10	.1311-00	-.8252-03	-.1796-00	.2856-01	.1369-01	.5742-01	.8443-01	.2741-01	.2349-01	.6962-00
.15	.2541-00	-.4418-02	-.3241-00	.6563-01	.1332-01	.7111-01	.1036+00	.2549+01	.3940-01	.6613-00
.20	.3570-00	-.6019-02	-.4908-00	.8917-01	.1295-01	.7610-01	.1229+00	.2364-01	.5283-01	.6304-00
.30	.4471-00	-.1580-01	-.6617-00	.1290-00	.1219+01	.7520-01	.1493-00	.2078+01	.7921-01	.5763-00
.40	.5058-00	-.2660-01	-.8304-00	.1725-00	.1142+01	.7048-01	.1709-00	.1831-01	.1026+00	.5354-00
.50	.5431-00	-.3747-01	-.9760-00	.2137-00	.1062+01	.6601-01	.1865-00	.1580+01	.1258+00	.4990-00
.70	.5831-00	-.5604-01	-.1220+01	.2864-00	.8892-00	.6207-01	.2095-00	.1098+01	.1612-00	.4571-00
1.00	.6066-00	-.7652-01	-.1519+01	.3754-00	.6290-00	.7404-01	.2341-00	.4434-00	.2052-00	.3603-00
Z=76										
.05	-.1107+00	-.1305-02	.2544-01	-.1244-01	.1420+01	.1608-01	.5029-01	.3036+01	.8454-02	.7462-00
.10	.7553-01	-.1670-02	-.1362-00	.2247-01	.1375+01	.5115-01	.7727-01	.2796-01	.2490-01	.7064-00
.15	.1956-00	-.5425-02	-.2690-00	.6124-01	.1337-01	.6819-01	.9778-01	.2609+01	.3908-01	.6743-00
.20	.2765-00	-.7015-02	-.3370-00	.8434-01	.1300+01	.7658-01	.1147-00	.2445+01	.526-01	.6453-00
.30	.4051-00	-.1805-01	-.5955-00	.1325-00	.1225+01	.8203-01	.1410-00	.2139+01	.7921-01	.5944-00
.40	.4471-00	-.2817-01	-.7460-00	.1672-00	.1143+01	.7202-01	.1628-00	.1892-01	.1025+00	.5553-00
.50	.4857-00	-.3927-01	-.8847-00	.2083-00	.1061+01	.8102-01	.1787-00	.1641-01	.1237+00	.5203-00
.70	.5291-00	-.5939-01	-.1119+01	.2808-00	.8833-00	.8199-01	.2630-00	.1156+01	.1607-00	.4815-00
1.00	.5574-00	-.8079-01	-.1408+01	.3692-00	.6172-00	.9684-01	.2291-00	.4942-00	.2039-00	.3879-00
Z=80										
.05	-.1377-00	-.1531-02	.4278-01	-.2039-01	.1424+01	.9852-02	.4527-01	.3089+01	.7428-02	.7509-00
.10	.2536-01	-.2263-02	-.9921-01	.1589-01	.1380-01	.4424-01	.7004-01	.2845-01	.2419-01	.7153-00
.15	.1381-00	-.6196-02	-.2194-00	.5622-01	.1342+01	.6273-01	.9031-01	.2666+01	.3814-01	.6657-00
.20	.2259-00	-.1098-01	-.5430-00	.8245-01	.1304-01	.7481-01	.1068+00	.2504-01	.5234-01	.6587-00
.30	.3253-00	-.2103-01	-.5258-00	.1278-00	.1227+01	.8595-01	.1343-00	.2214-01	.7923-01	.6119-00
.40	.3865-00	-.2928-01	-.6074-00	.1623-00	.1143+01	.9045-01	.1549-00	.1933+01	.1026+00	.5741-00
.50	.4255-00	-.4058-01	-.7986-00	.2028-00	.1058+01	.9268-01	.1713-00	.1701-01	.1238+00	.5410-00
.70	.4713-00	-.6133-01	-.1023-01	.2752-00	.8758-00	.9887-01	.1969-00	.1214-01	.1605-00	.4843-00
1.00	.5030-00	-.8430-01	-.1301-01	.3630-00	.6037-00	.1175+00	.2245-00	.5469-00	.2030-00	.4140-00

TABLE 3.5 (CONTINUED)

PP 84 L3-SUBSHELL

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
Z=84										
.05	-.1521-00	-.1313-02	.5335-01	-.3296-01	.1427+01	.5026-02	.4065-01	.3115+01	.6126-02	.7548-00
.10	-.1098-01	-.3140-02	-.6914-01	.1624-01	.1385+01	.3698-01	.6374-01	.2880+01	.2471-01	.7229-00
.15	.8584-01	-.6409-02	-.1752-00	.4987-01	.1346+01	.5801-01	.8323-01	.2721+01	.3698-01	.6961-00
.20	.1697-00	-.1142-01	-.2901-00	.7743-01	.1308+01	.7124-01	.9917-01	.2561+01	.5190-01	.6709-00
.30	.2648-00	-.2153-01	-.4612-00	.1229+00	.1229+01	.8689-01	.1252-00	.2257+01	.7916-01	.6260-00
.40	.3053-00	-.3202-01	-.5940-00	.1568-00	.1143+01	.9535-01	.1472-00	.2013+01	.1027+00	.5913-00
.50	.3440-00	-.4359-01	-.7178-00	.1973-00	.1054+01	.1011+00	.1641-00	.1761+01	.1213+00	.5599-00
.70	.3892-00	-.6540-01	-.9311-00	.2696-00	.8667-00	.1126+00	.1911-00	.1273+01	.1604-00	.5062-00
1.00	.4221-00	-.9069-01	-.1196+01	.3568-00	.5880-00	.1358-00	.2210-00	.6018-00	.2023-00	.4388-00
Z=88										
.05	-.1598-00	-.1297-02	.6219-01	-.4186-01	.1429+01	.1510-02	.3642-01	.3134+01	.4635-02	.7577-00
.10	-.5110-01	-.3376-02	-.4106-01	.8513-02	.1388+01	.2988-01	.5764-01	.2921+01	.2404-01	.7297-00
.15	.3610-01	-.6802-02	-.1369-00	.4316-01	.1349+01	.5143-01	.7650-01	.2772+01	.3631-01	.7053-00
.20	.1144+00	-.1177-01	-.2431-00	.7207-01	.1310+01	.6630-01	.9190-01	.2615+01	.5133-01	.6819-00
.30	.2059-00	-.2172-01	-.4019-00	.1175+00	.1229+01	.8552-01	.1176+00	.2312+01	.7908-01	.6397-00
.40	.2440-00	-.3215-01	-.5260-00	.1511-00	.1141+01	.9753-01	.1397-00	.2071+01	.1028+00	.6071-00
.50	.2814-00	-.4378-01	-.6423-00	.1917-00	.1049+01	.1065+00	.1572-00	.1819+01	.1241+00	.5774-00
.70	.3268-00	-.6575-01	-.8442-00	.2640-00	.8354-00	.1230+00	.1855-00	.1333+01	.1605-00	.5265-00
1.00	.3611-00	-.9193-01	-.1096+01	.3506-00	.5701-00	.1510-00	.2177-00	.6579-00	.2020-00	.4622-00
Z=92										
.05	-.1561-00	-.1145-02	.6654-01	-.5068-01	.1430+01	-.7016-03	.3261-01	.3154+01	.1733-02	.7600-00
.10	-.8443-01	-.3460-02	-.1732-01	-.9501-04	.1391+01	.2312-01	.5184-01	.2954+01	.2307-01	.7357-00
.15	-.9176-02	-.6955-02	-.1027+00	.3625-01	.1352+01	.4427-01	.6896-01	.2794+01	.3929-01	.7134-00
.20	.5401-01	-.1073-01	-.1870-00	.6131-01	.1311+01	.6014-01	.8475-01	.2667+01	.5041-01	.6918-00
.30	.1462-00	-.2177-01	-.3470-00	.1117+00	.1228+01	.9197-01	.1100+00	.2365+01	.7898-01	.6523-00
.40	.1806-00	-.3215-01	-.4625-00	.1449-00	.1136+01	.9697-01	.1322-00	.2127+01	.1029+00	.6217-00
.50	.2157-00	-.4382-01	-.5715-00	.1859-00	.1041+01	.1089+00	.1503-00	.1877-01	.1243+00	.5937-00
.70	.2634-00	-.6545-01	-.7616-00	.2582-00	.8416-00	.1299-00	.1800-00	.1392+01	.1607-00	.5454-00
1.00	.2966-00	-.9248-01	-.1000+01	.3444-00	.5495-00	.1628-00	.2145-00	.7150-00	.2019-00	.4645-00

TABLE 3.5 (CONTINUED)

PP 54 L3-SUBSHELL

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
Z=96										
.05	-.1398-00	-.8282-03	.6655-01	-.5875-01	.1431+01	-.1507-02	.2819-01	.3158+01	-.9316-03	.7610-00
.10	-.1103+00	-.3431-02	.2775-02	-.9513-02	.1392+01	.1585-01	.4470-01	.2987+01	.2144-01	.7408-00
.15	-.4939-01	-.6939-02	-.7129-01	.2878-01	.1352+01	.3564-01	.6056-01	.2833+01	.3825-01	.7207-00
.20	.5427-02	-.1061-01	-.1480-00	.5366-01	.1311+01	.5113-01	.7552-01	.2715+01	.4957-01	.7010-00
.30	.9206-01	-.2109-01	-.2944-00	.1061+00	.1224+01	.7376-01	.9968-01	.2416+01	.7890-01	.6643-00
.40	.1210+00	-.3121-01	-.4000-00	.1388-00	.1128+01	.9029-01	.1213+00	.2180+01	.1030+00	.6359-00
.50	.1524-00	-.4271-01	-.5010-00	.1802-00	.1029+01	.1040+00	.1395-00	.1934+01	.1245+00	.6098-00
.70	.1901-00	-.6482-01	-.6767-00	.2526-00	.8220-00	.1275-00	.1697-00	.1450+01	.1608-00	.5645-00
1.00	.2194-00	-.9263-01	-.8982-00	.3383-00	.5215-00	.1628-00	.2058-00	.7725-00	.2017-00	.5073-00

TABLE 3.6

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PARTICLE PARAMETER

B4

(STATIC)

OF THE M - SUBSHELLS

TABLE 3.6.01

Z=72

PP B4 M-SUBSHELLS

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
M3 - SUBSHELL										
.02	-.4336-01	-.2177-02	.4709-01	-.1679-01	.1445+01	.1721-02	.3865-01	.3133+01	.1250-02	.7556-00
.05	.4131-02	-.1403-02	-.4569-01	.1323-01	.1425+01	.1840-01	.5786-01	.3037+01	.1240-01	.7331-00
.10	.1409-00	-.9714-03	-.2044-00	.3633-01	.1381+01	.4380-01	.8362-01	.2795+01	.2666-01	.6938-00
.15	.2575-00	-.3313-02	-.3428-00	.6348-01	.1341+01	.5961-01	.1041+00	.2598+01	.4301-01	.6601-00
.20	.3412-00	-.6360-02	-.4613-00	.8839-01	.1302+01	.6562-01	.1210+00	.2430+01	.5655-01	.6306-00
.30	.4395-00	-.1600-01	-.6598-00	.1347-00	.1226+01	.6743-01	.1472-00	.2136+01	.8173-01	.5815-00
.40	.4986-00	-.2633-01	-.8244-00	.1777-00	.1146+01	.6462-01	.1671-00	.1866+01	.1048+00	.5403-00
.50	.5365-00	-.3771-01	-.9667-00	.2178-00	.1063+01	.6121-01	.1825-00	.1611+01	.1259-00	.5044-00
.70	.5790-00	-.5727-01	-.1209+01	.2897-00	.8869-00	.5886-01	.2055-00	.1121+01	.1626-00	.4432-00
1.00	.6047-00	-.7749-01	-.1506+01	.3777-00	.6247-00	.7115-01	.2301-00	.4574-00	.2062-00	.3668-00

M4 - SUBSHELL

.02	-.4293-00	-.3220-00	-.5173-00	.4591-00	.7381-00	.6204-01	.1324-00	.6349-00	-.1362-00	.5859-00
.05	-.2335-00	-.3633-00	-.8438-00	.4587-00	.5914-00	.6373-01	.2247-03	-.1032+01	.1820-00	.5363-00
.10	-.3447-01	-.3614-00	-.1139+01	.4585-00	.4338-00	.6940-01	-.1116+00	-.2440+01	.3352-00	.4875-00
.15	.7487-01	-.3489-00	-.1316+01	.4614-00	.3290-00	.7552-01	-.1691-00	-.3267+01	.3954-00	.4565-00
.20	.1447-00	-.5357-00	-.1442+01	.4651-00	.2464-00	.8014-01	-.2062-00	-.5834+01	.4280-00	.4334-00
.30	.2290-00	-.3123-00	-.1621+01	.4735-00	.1156+00	.9276-01	-.2331-00	-.4598+01	.4636-00	.3906-00
.40	.2792-00	-.2927-00	-.1753+01	.4620-00	.8762-02	.1045+00	-.2492-00	-.5090+01	.4830-00	.3715-00
.50	.3132-00	-.2761-00	-.1861+01	.4904-00	-.8432-01	.1156+00	-.2499-00	-.5422+01	.4949-00	.3482-00
.70	.3571-00	-.2490-00	-.2037+01	.5064-00	-.2428-00	.1364-00	-.2369-00	-.5791+01	.5079-00	.3081-00
1.00	.3983-00	-.2173-00	-.2246+01	.5279-00	-.4349-00	.1654-00	-.2023-00	-.5934+01	.5146-00	.2566-00

M5 - SUBSHELL

.02	-.3326-00	-.5967-01	-.9125-01	.7508-01	.7411-00	.2861-00	.2294-00	.7686-00	-.5675-02	.1796-01
.05	.1385-00	-.9001-01	-.3214-00	.9538-01	.6112-00	.1375-00	.2248-01	-.4348-00	.2170-04	-.2185-01
.10	.3256-00	-.1161+00	-.4881-00	.1180+00	.4852-00	.5692-01	-.1297-00	-.1377+01	.7561-02	-.6999-01
.15	.3615-00	-.1262-00	-.5606-00	.1332-00	.4053-00	.3529-01	-.2013-00	-.1883+01	.9157-02	-.1075+00
.20	.3608-00	-.1328-00	-.6008-00	.1437-00	.3451-00	.3830-01	-.2440-00	-.2222+01	.1016-01	-.1374-00
.30	.3375-00	-.1307-00	-.6548-00	.1565-00	.2533-00	.6426-01	-.2672-00	-.2567+01	.7387-02	-.1653-00
.40	.3147-00	-.1195+00	-.7027-00	.1629-00	.1755-00	.9991-01	-.2621-00	-.2736+01	.3736-02	-.2239-00
.50	.2990-00	-.1024-00	-.7523-00	.1655-00	.1148+00	.1378-00	-.2428-00	-.2809+01	.8022-03	-.2587-00
.70	.2852-00	-.5710-01	-.8605-00	.1665-00	.2702-02	.2114-00	-.1824-00	-.2784+01	.2507-05	-.3109-00
1.00	.3014-00	-.2738-01	-.1014+01	.1714-00	-.1313-00	.3111-00	-.6720-01	-.2517+01	.1725-01	-.3715-00

TABLE 3.6.02

Z=76

PP B4 M-SUBSHELLS

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
M3 - SUBSHELL										
.02	-.3475-01	-.2145-02	.4974-01	-.3352-01	.1442+01	.1621-02	.3580-01	.3126+01	.5387-03	.7571-00
.05	-.2057-01	-.1924-02	-.2434-01	.8214-02	.1427+01	.1379-01	.5279-01	.3055+01	.1273-01	.7380-00
.10	.1028+00	-.1802-02	-.1645-00	.3161-01	.1385+01	.4033-01	.7677-01	.2845+01	.2853-01	.7030-00
.15	.2037-00	-.4252-02	-.2904-00	.5901-01	.1345+01	.5642-01	.9626-01	.2656+01	.4310-01	.6722-00
.20	.2756-00	-.8216-02	-.3998-00	.6402-01	.1306+01	.6540-01	.1126+00	.2490-01	.5681-01	.6451-00
.30	.3800-00	-.1728-01	-.5854-00	.1304-00	.1228+01	.7283-01	.1386-00	.2199+01	.8210-01	.5990-00
.40	.4398-00	-.2828-01	-.7408-00	.1733-00	.1146+01	.7461-01	.1536-00	.1932+01	.1051+00	.5602-00
.50	.4788-00	-.3938-01	-.8760-00	.2133-00	.1060+01	.7486-01	.1744-00	.1674+01	.1261-00	.5261-00
.70	.5243-00	-.5957-01	-.1108+01	.2848-00	.8798-00	.7737-01	.1986-00	.1181+01	.1626-00	.4677-00
1.00	.5548-00	-.8160-01	-.1395+01	.3719-00	.6116-00	.9283-01	.2247-00	.5106-00	.2052-00	.3945-00

M4 - SUBSHELL

.02	-.4407-00	-.3062-00	-.4718-00	.4583-00	.7531-00	.5862-01	.1368-00	.7855-00	-.1751-00	.5952-00
.05	-.3227-00	-.3472-00	-.7471-00	.4559-00	.6161-00	.6167-01	.2714-01	-.7743-00	.1463-00	.3483-00
.10	-.1201+00	-.3582-00	-.1054+01	.4584-00	.4624-00	.6611-01	-.8120-01	-.2207+01	.3144-00	.5015-00
.15	-.6319-02	-.3482-00	-.1227+01	.4613-00	.3586-00	.7131-01	-.1392-00	-.3068+01	.3814-00	.4713-00
.20	.6941-01	-.3363-00	-.1350+01	.4649-00	.2764-00	.7736-01	-.1723-00	-.3662+01	.4178-00	.4488-00
.30	.1632-00	-.3141-00	-.1527+01	.4729-00	.1459-00	.8720-01	-.2114-00	-.4471+01	.4577-00	.4148-00
.40	.2193-00	-.2953-00	-.1656+01	.4812-00	.3918-01	.9825-01	-.2246-00	-.4995+01	.4793-00	.3683-00
.50	.2574-00	-.2792-00	-.1763+01	.4894-00	-.5386-01	.1089+00	-.2272-00	-.5350+01	.4925-00	.3657-00
.70	.3067-00	-.2531-00	-.1935+01	.5050-00	-.2125-00	.1289-00	-.2170-00	-.5749+01	.5067-00	.3267-00
1.00	.3531-00	-.2227-00	-.2139+01	.5257-00	-.4050-00	.1572-00	-.1857-00	-.5917+01	.5138-00	.2769-00

M5 - SUBSHELL

.02	-.4106-00	-.5486-01	-.6272-01	.7139-01	.7540-00	.3043-00	.2526-00	.8878-00	-.4379-02	.2089-01
.05	.7688-01	-.8487-01	-.2788-00	.9005-01	.6366-00	.1646-00	.6706-01	-.1852-00	-.1808-02	-.1390-01
.10	.3015-00	-.1130+00	-.4584-00	.1122+00	.5125-00	.7603-01	-.8738-01	-.1115+01	.4833-02	-.5825-01
.15	.3543-00	-.1273-00	-.5455-00	.1275-00	.4340-00	.4810-01	-.1636-00	-.1623+01	.6147-02	-.9347-01
.20	.3628-00	-.1340-00	-.5980-00	.1384-00	.3746-00	.4523-01	-.2032-00	-.1940+01	.5699-02	-.1217+00
.30	.3476-00	-.1353-00	-.6690-00	.1524-00	.2837-00	.6847-01	-.2413-00	-.2343+01	.3709-02	-.1674-00
.40	.3273-00	-.1270-00	-.7280-00	.1601-00	.2106-00	.1020+00	-.2414-00	-.2535+01	-.3162-03	-.2043-00
.50	.3118-00	-.1127+00	-.7853-00	.1639-00	.1461-00	.1386-00	-.2262-00	-.2631+01	-.3713-02	-.2358-00
.70	.2976-00	-.7234-01	-.9040-00	.1667-00	.3399-01	.2111-00	-.1719-00	-.2650+01	-.5589-02	-.2881-00
1.00	.3102-00	.6248-02	-.1070+01	.1723-00	-.1023+00	.3101-00	-.6266-01	-.2433+01	.8351-02	-.3476-00

TABLE 3.6.03

Z=80

PP 84 N-SUBSHELLS

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
M3 - SUBSHELL										
.02	-.2441-01	-.2134-02	.5295-01	-.4181-01	.1439+01	.1791-02	.3321-01	.3117+01	-.2203-03	.7580-00
.05	-.3851-01	-.2306-02	-.7034-02	.2419-02	.1429+01	.9968-02	.4830-01	.3075+01	.1223-01	.7422-00
.10	.6105-01	-.2517-02	-.1299-00	.2657-01	.1388+01	.3462-01	.7035-01	.2888+01	.2835-01	.7110-00
.15	.1520-00	-.5074-02	-.2438-00	.5429-01	.1349+01	.3201-01	.8883-01	.2708+01	.4315-01	.6830-00
.20	.2209-00	-.8961-02	-.3445-00	.7958-01	.1309+01	.6323-01	.1046+00	.2548+01	.5702-01	.6580-00
.30	.3134-00	-.1293-01	-.5170-00	.1260-00	.1229+01	.7541-01	.1503-00	.2260+01	.8251-01	.6149-00
.40	.3794-00	-.2930-01	-.6631-00	.1690-00	.1145+01	.8143-01	.1504-00	.1994+01	.1056+00	.5784-00
.50	.4187-00	-.4036-01	-.7909-00	.2089-00	.1056+01	.8519-01	.1667-00	.1736+01	.1265-00	.5461-00
.70	.4659-00	-.6141-01	-.1011+01	.2800-00	.8707-00	.9284-01	.1920-00	.1242+01	.1627-00	.4906-00
1.00	.5000-00	-.8493-01	-.1286+01	.3664-00	.5964-00	.1123+00	.2199-00	.5655-00	.2045-00	.4207-00

M4 - SUBSHELL

.02	-.4315-00	-.2904-00	-.4340-00	.4576-00	.7660-00	.5484-01	.1456-00	.9450-00	-.2241-00	.6027-00
.05	-.3790-00	-.3352-00	-.6806-00	.4554-00	.6389-00	.5943-01	.5087-01	-.5273-00	.1095+00	.5595-00
.10	-.2041-00	-.3527-00	-.9725-00	.4581-00	.4896-00	.6322-01	-.5140-01	-.1972+01	.2922-00	.5149-00
.15	-.9123-01	-.3458-00	-.1140+01	.4609-00	.3872-00	.6776-01	-.1086+00	-.2861+01	.3662-00	.4837-00
.20	-.1203-01	-.3355-00	-.1261+01	.4644-00	.3058-00	.7285-01	-.1431-00	-.3482+01	.4066-00	.4637-00
.30	.8947-01	-.3151-00	-.1434+01	.4722-00	.1759-00	.8373-01	-.1789-00	-.4333+01	.4510-00	.4306-00
.40	.1515-00	-.2972-00	-.1561+01	.4803-00	.6958-01	.9245-01	-.1983-00	-.4889+01	.4749-00	.4048-00
.50	.1937-00	-.2819-00	-.1665+01	.4882-00	-.2320-01	.1026+00	-.2025-00	-.5267+01	.4896-00	.3829-00
.70	.2485-00	-.2569-00	-.1832+01	.5032-00	-.1816-00	.1218+00	-.1949-00	-.5699+01	.5052-00	.3452-00
1.00	.3000-00	-.2281-00	-.2031+01	.5233-00	-.3741-00	.1494-00	-.1666-00	-.5892+01	.5129-00	.2971-00

M5 - SUBSHELL

.02	-.4837-00	-.4922-01	-.3971-01	.6759-01	.7640-00	.3182-00	.2711-00	.9864-00	-.4953-02	.2293-01
.05	.1768-01	-.7957-01	-.2372-00	.8514-01	.6569-00	.1916-00	.1094+00	.4429-01	-.3342-02	-.6995-02
.10	.2719-00	-.1093+00	-.4237-00	.1064+00	.5380-00	.9672-01	-.4329-01	-.8527-00	.2459-02	-.4766-01
.15	.3419-00	-.1259-00	-.5230-00	.1218+00	.4612-00	.6295-01	-.1239+00	-.1366+01	.3480-02	-.8059-01
.20	.3601-00	-.1347-00	-.5866-00	.1331-00	.4030-00	.5586-01	-.1680-00	-.1689+01	.2836-02	-.1073+00
.30	.3545-00	-.1397-00	-.6745-00	.1482-00	.3134-00	.7249-01	-.2046-00	-.2072+01	-.9074-03	-.1507-00
.40	.3376-00	-.1346-00	-.7452-00	.1571-00	.2411-00	.1050+00	-.2168-00	-.2315+01	-.4117-02	-.1859-00
.50	.3230-00	-.1232+00	-.8113-00	.1622-00	.1773-00	.1403-00	-.2057-00	-.2430+01	-.7958-02	-.2160-00
.70	.3083-00	-.8815-01	-.9428-00	.1670-00	.6574-01	.2114-00	-.1577-00	-.2490+01	-.1113-01	-.2663-00
1.00	.3179-00	-.1608-01	-.1125+01	.1736-00	-.7197-01	.3095-00	-.3480-01	-.2332+01	-.1646-03	-.5245-00

TABLE 3.6.04

2=84

PP 24 H-SUBSHELLS

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
M3 - SUBSHELL										
.02	-.1281-01	-.2057-02	.5352-01	-.5014-01	.1435+01	.2118-02	.3066-01	.3108+01	-.1828-02	.7587-00
.05	-.5047-01	-.2578-02	.6919-02	-.4316-02	.1428+01	.6924-02	.4412-01	.3000+01	.1161-01	.7457-00
.10	.2628-01	-.2961-02	-.9997-01	.2102-01	.1390+01	.2896-01	.6450-01	.2926+01	.2807-01	.7180-00
.15	.1059+00	-.5562-02	-.2023-00	.4928-01	.1351+01	.4676-01	.8172-01	.2756+01	.4316-01	.6925-00
.20	.1690-00	-.9440-02	-.2945-00	.7490-01	.1511+01	.5953-01	.9607-01	.2601+01	.5723-01	.6696-00
.30	.2550-00	-.1946-01	-.4542-00	.1216+00	.1229-01	.7556-01	.1222+00	.2319+01	.8294-01	.6295-00
.40	.3117-00	-.3062-01	-.5907-00	.1646-00	.1142+01	.8520-01	.1425-00	.2054+01	.1061+00	.5953-00
.50	.3492-00	-.4215-01	-.7109-00	.2045-00	.1050+01	.9235-01	.1592-00	.1798-01	.1270-00	.5649-00
.70	.3961-00	-.6370-01	-.9196-00	.2754-00	.8592-00	.1051+00	.1857-00	.1303+01	.1630-00	.5122-00
1.00	.4312-00	-.8918-01	-.1182+01	.3609-00	.5787-00	.1291-00	.2155-00	.6225-00	.2042-00	.4456-00

M4 - SUBSHELL

.02	-.4032-00	-.2762-00	-.4061-00	.4565-00	.7751-00	.5041-01	.1482-00	.1074+01	-.2702-00	.6086-00
.05	-.4164-00	-.3207-00	-.6196-00	.4547-00	.6600-00	.5641-01	.7025-01	-.2913-00	.7173-01	.5700-00
.10	-.2322-00	-.3446-00	-.8944-00	.4575-00	.5157-00	.6007-01	-.2421-01	-.1737+01	.2686-00	.5276-00
.15	-.1765-00	-.3415-00	-.1056-01	.4603-00	.4149-00	.6401-01	-.7953-01	-.2647+01	.3496-00	.4956-00
.20	-.9705-01	-.3330-00	-.1174+01	.4637-00	.3346-00	.6049-01	-.1139+00	-.5292+01	.3943-00	.4783-00
.30	.9524-02	-.3148-00	-.1342+01	.4712-00	.2058-00	.7263-01	-.1507-00	-.4184+01	.4435-00	.4462-00
.40	.7631-01	-.2983-00	-.1465+01	.4790-00	.1001+00	.8038-01	-.1666-00	-.4771+01	.4700-00	.4212-00
.50	.1224+00	-.2839-00	-.1567+01	.4867-00	.7759-02	.9827-01	-.1716-00	-.5173+01	.4861-00	.4000-00
.70	.1827-00	-.2604-00	-.1729+01	.5012-00	-.1499-00	.1172-00	-.1663-00	-.5638+01	.5033-00	.3635-00
1.00	.2393-00	-.2333-00	-.1921+01	.5206-00	-.3422-00	.1458-00	-.1403-00	-.5858+01	.5118-00	.3173-00

M5 - SUBSHELL

.02	-.5513-00	-.4519-01	-.2171-01	.6422-01	.7719-00	.3276-00	.2829-00	.1046+01	-.5349-02	.2419-01
.05	-.4418-01	-.7395-01	-.1968-00	.8032-01	.6753-00	.2182-00	.1490-00	.2515-00	-.4610-02	-.1067-02
.10	.2372-00	-.1051+00	-.3852-00	.1007+00	.5619-00	.1191+00	-.7298-03	-.6083-00	.5738-03	-.3811-01
.15	.3241-00	-.1239+00	-.4939-00	.1160+00	.4873-00	.7985-01	-.8023-01	-.1111+01	.1189-02	-.6876-01
.20	.3528-00	-.1348-00	-.5673-00	.1276-00	.4303-00	.6844-01	-.1302-00	-.1434+01	.2848-03	-.9388-01
.30	.3578-00	-.1437-00	-.6709-00	.1438-00	.3424-00	.7980-01	-.1713-00	-.1623+01	-.3913-02	-.1349-00
.40	.3452-00	-.1421-00	-.7536-00	.1559-00	.2713-00	.1082+00	-.1823-00	-.2049+01	-.0702-02	-.1683-00
.50	.3323-00	-.1338-00	-.8291-00	.1603-00	.2085-00	.1418-00	-.1749-00	-.2177+01	-.1317-01	-.1970-00
.70	.3177-00	-.1044+00	-.9752-00	.1673-00	.9805-01	.2113-00	-.1537-00	-.2275+01	-.1773-01	-.2452-00
1.00	.3249-00	-.3948-01	-.1176+01	.1754-00	-.4038-01	.3032-00	-.3728-01	-.2170+01	-.9977-02	-.3017-00

TABLE 3.6.05

Z=88

PP 84 1-SUBSHELLS

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
M3 - SUBSHELL										
.02	-.1446-02	-.1871-02	.5318-01	-.5895-01	.1431+01	.2447-02	.2854-01	.3097+01	-.2862-02	.7593-00
.05	-.5624-01	-.2685-02	.1795-01	-.1215-01	.1427+01	.4538-02	.4023-01	.5098+01	.1102-01	.7435-00
.10	-.4356-02	-.3402-02	-.7426-01	.1485-01	.1390+01	.2361-01	.5836-01	.2944+01	.2942-01	.7240-00
.15	.6262-01	-.6035-02	-.1658-00	.4384-01	.1351+01	.4111-01	.7500-01	.2799+01	.4311-01	.7000-00
.20	.1167+00	-.9895-02	-.2498-00	.6991-01	.1311+01	.5475-01	.6966-01	.2651+01	.5741-01	.6799-00
.30	.1991-00	-.1963-01	-.5965-00	.1170-00	.1226+01	.7368-01	.1145+00	.2374+01	.3336-01	.6427-00
.40	.2522-00	-.3072-01	-.5240-00	.1602-00	.1136+01	.8653-01	.1348-00	.2113+01	.1066+00	.6107-00
.50	.2887-00	-.4212-01	-.6365-00	.2001-00	.1042+01	.9654-01	.1570-00	.1653+01	.1276-00	.5821-00
.70	.3344-00	-.6337-01	-.8336-00	.2707-00	.8453-00	.1141+00	.1795-00	.1364-01	.1634-00	.5523-00
1.00	.3705-00	-.9014-01	-.1082+01	.3555-00	.5584-00	.1429-00	.2116-00	.5807-00	.2642-00	.4671-00
M4 - SUBSHELL										
.02	-.3662-00	-.2593-00	-.3778-00	.4551-00	.7836-00	.4553-01	.1467-00	.1175+01	-.3114-00	.6143-00
.05	-.4220-00	-.3029-00	-.5627-00	.4536-00	.6795-00	.5362-01	.8714-01	-.6956-01	.3357-01	.5793-00
.10	-.3590-00	-.3292-00	-.8023-00	.4537-00	.3404-00	.5738-01	.2136-02	-.1503+01	.2438-00	.5399-00
.15	-.2571-00	-.3344-00	-.9760-00	.4594-00	.4416-00	.6091-01	-.5014-01	-.2428-01	.3317-00	.5130-00
.20	-.1814-00	-.3285-00	-.1089+01	.4627-00	.3626-00	.6490-01	-.8367-01	-.3094+01	.3809-00	.4924-00
.30	-.7372-01	-.3131-00	-.1252+01	.4700-00	.2352-00	.7382-01	-.1212+00	-.4024-01	.4050-00	.4614-00
.40	-.5560-02	-.2983-00	-.1372+01	.4775-00	.1305-00	.8296-01	-.1383-00	-.6442+01	.4643-00	.4373-00
.50	.4558-01	-.2851-00	-.1470+01	.4850-00	.3383-01	.9209-01	-.1448-00	-.5068+01	.4621-00	.4168-00
.70	.1106+00	-.2635-00	-.1627+01	.4989-00	-.1179+00	.1101+00	-.1414-00	-.5567+01	.5011-00	.3817-00
1.00	.1719-00	-.2381-00	-.1612+01	.5176-00	-.3094-00	.1368-00	-.1135+00	-.5816+01	.5106-00	.3373-00
M5 - SUBSHELL										
.02	-.6105-00	-.4159-01	-.8374-02	.6095-01	.7772-00	.3350-00	.2698-00	.1074+01	-.5462-02	.2524-01
.05	-.1095-00	-.6779-01	-.1347-00	.7357-01	.6916-00	.2432-00	.1827-00	.4218-00	-.5444-02	.3951-02
.10	.1939-00	-.1000+00	-.3440-00	.9449-01	.5847-00	.1423-00	.4433-01	-.3646-00	-.1295-02	-.2956-01
.15	.3014-00	-.1212+00	-.4588-00	.1101+00	.5116-00	.9826-01	-.3840-01	-.8491-00	-.1133-02	-.5795-01
.20	.3405-00	-.1344-00	-.5411-00	.1220+00	.4565-00	.8243-01	-.8769-01	-.1188+01	-.2555-02	-.6151-01
.30	.3570-00	-.1473-00	-.6590-00	.1391-00	.3705-00	.6872-01	-.1360-00	-.1567+01	-.6637-02	-.1202+00
.40	.3497-00	-.1492-00	-.7531-00	.1505-00	.3009-00	.1141+00	-.1507-00	-.1801+01	-.1175-01	-.1518-00
.50	.3391-00	-.1443-00	-.8382-00	.1581-00	.2322-00	.1460-00	-.1478-00	-.1945+01	-.1650-01	-.1791-00
.70	.3253-00	-.1209+00	-.1000+01	.1674-00	.1504-00	.2134-00	-.1130+00	-.2071+01	-.2220-01	-.2250-00
1.00	.3308-00	-.6354-01	-.1222+01	.1775-00	-.7323-02	.3091-00	-.2462-01	-.2020-01	-.1707-01	-.2795-00

TABLE 3.6.06

Z=92

PP 64 M-SUBSHELLS

K	E2	E2/M3	M3	M3/E4	E4	M2	M2/E3	E3	E3/M4	M4
M3 - SUBSHELL										
.02	.8658-02	-.1627-02	.5106-01	-.6823-01	.1426+01	.2653-02	.2610-01	.3083+01	-.3996-02	.7595-00
.05	-.5795-01	-.2402-02	.2387-01	-.3678-01	.1421+01	.2933-02	.3656-01	.5101-01	.1013-01	.7509-00
.10	-.2930-01	-.3738-02	-.5224-01	.7986-02	.1389+01	.1870-01	.5300-01	.2970-01	.2907-01	.7293-00
.15	.2294-01	-.7209-02	-.1283-00	.4936-01	.1352+01	.3520-01	.6852-01	.2653+01	.4154-01	.7096-00
.20	.7734-01	-.1185-01	-.2169-00	.7813-01	.1311+01	.4906-01	.8244-01	.2710+01	.5615-01	.6904-00
.30	.1326-00	-.2080-01	-.3448-00	.1120+00	.1220+01	.7015-01	.1069+00	.2427+01	.8384-01	.6549-00
.40	.1601-00	-.3189-01	-.4624-00	.1557-00	.1126+01	.8548-01	.1273-00	.2169+01	.1072+00	.6250-00
.50	.2129-00	-.4335-01	-.5668-00	.1955-00	.1031+01	.9782-01	.1442+00	.1916-01	.1282-00	.5981-00
.70	.2596-00	-.6492-01	-.7513-00	.2662-00	.8282+00	.1198-00	.1739-00	.1424+01	.1640-00	.5512-00
1.00	.2937-00	-.9236-01	-.9852-00	.3501-00	.5349-00	.1532-00	.2079-00	.7400-00	.2045-00	.4914-00

M4 - SUBSHELL

.02	-.3227-00	-.2429-00	-.3544-00	.4536-00	.7899-00	.4002-01	.1435-00	.1283-01	-.3582-00	.6208-00
.05	-.4124-00	-.2834-00	-.5106-00	.4522-00	.6972-00	.5053-01	.9375-01	.5983-01	.1630-01	.5917-00
.10	-.4093-00	-.3158-00	-.7340-00	.4525-00	.5638-00	.5458-01	.2625-01	-.1271-01	.2177-00	.5513-00
.15	-.3342-00	-.3258-00	-.9005-00	.4610-00	.4744-00	.5791-01	-.1368-01	-.2117-01	.2952-00	.5260-00
.20	-.2657-00	-.3227-00	-.1008+01	.4641-00	.3969-00	.6159-01	-.5238-01	-.2923+01	.3675-00	.5062-00
.30	-.1575-00	-.3096-00	-.1163+01	.4685-00	.2646-00	.7196-01	-.8373-01	-.3355+01	.4258-00	.4763-00
.40	-.8634-01	-.2908-00	-.1279+01	.4758-00	.1610-00	.8058-01	-.1010+00	-.4502+01	.4579-00	.4530-00
.50	-.3516-01	-.2351-00	-.1374+01	.4629-00	.6927-01	.3936-01	-.1680+00	-.4951+01	.4774-00	.4334-00
.70	.3268-01	-.2654-00	-.1524+01	.4963-00	-.8516-01	.1057+00	-.1007+00	-.5486+01	.4905-00	.3996-00
1.00	.9749-01	-.2425-00	-.1702+01	.5143-00	-.2758-00	.1319-00	-.8799-01	-.5765+01	.5092-00	.3572-00

M5 - SUBSHELL

.02	-.6594-00	-.3891-01	.4023-03	.5778-01	.7798-00	.3556-00	.2885-00	.1062+01	-.5593-02	.2548-01
.05	-.1740-00	-.6180-01	-.1193+00	.7096-01	.7058-00	.2674-00	.2136-00	.5573-00	-.3025-02	.3152-02
.10	.1504-00	-.9443-01	-.3015-00	.5872-01	.6042-00	.1677-00	.8896-01	-.1351-00	-.2950-02	-.2192-01
.15	.2762-00	-.1166+00	-.4196-00	.1038+00	.5366-00	.1210-00	.9318-02	-.5750-00	-.6307-02	-.4825-01
.20	.3243-00	-.1312-00	-.5053-00	.1154+00	.4834-00	.8211-01	-.4646-01	-.9094-00	-.8323-02	-.7419-01
.30	.3515-00	-.1302-00	-.6390-00	.1341-00	.3981-00	.9669-01	-.8278-01	-.1235+01	-.1109-01	-.1061-00
.40	.3505-00	-.1559-00	-.7434-00	.1766-00	.3302-00	.1191+00	-.1015+00	-.1476+01	-.1676-01	-.1363-00
.50	.3413-00	-.1543-00	-.8366-00	.1555-00	.2396-00	.1484-00	-.1527+00	-.1629+01	-.2195-01	-.1620-00
.70	.3315-00	-.1373-00	-.1015+01	.1672-00	.1431-00	.2152-00	-.7919-01	-.1799+01	-.2814-01	-.2058-00
1.00	.3358-00	-.8836-01	-.1259+01	.1795-00	.2549-01	.3095-00	.1087-02	-.1795+01	-.2574-01	-.2570-00

TABLE 3.6.07

Z=96

PP 84 H-SUBSHELLS

K	E2	E2/E3	E3	E3/E4	E4	E4	E4/E3	E3	E3/E4	E4
M3 - SUBSHELL										
.02	.1649-01	-.1292-02	.4784-01	-.7675-01	.1420+01	.2640-02	.2401-01	.3072+01	-.5536-02	.7597-00
.05	-.5774-01	-.2734-02	.3412-01	-.4943-01	.1416+01	.1898-02	.5316-01	.3102+01	.0717-02	.7529-00
.10	-.4800-01	-.3982-02	-.3346-01	.8631-01	.1396+01	.1437-01	.4794-01	.2989+01	.2863-01	.7330-00
.15	-.9820-02	-.7369-02	-.1003+00	.4328-01	.1349+01	.2949-01	.6198-01	.2859-01	.4458-01	.7162-00
.20	.3515-01	-.1192-01	-.1808-00	.7331-01	.1307+01	.4309-01	.7575-01	.2750+01	.5507-01	.6987-00
.30	.8425-01	-.2032-01	-.2971-00	.1069+00	.1273-01	.6519-01	.9942-01	.2476+01	.8425-01	.6659-00
.40	.1250-00	-.3118-01	-.4055-00	.1509-00	.1118-01	.8230-01	.1198+00	.2222-01	.1076+00	.6320-00
.50	.1542-00	-.4247-01	-.5022-00	.1909-00	.1017-01	.9670-01	.1377-00	.1972+01	.1290-00	.6129-00
.70	.1912-00	-.6457-01	-.6743-00	.2615-00	.8076-00	.1224+00	.1680-00	.1434-01	.1642-00	.5629-00
1.00	.2213-00	-.9274-01	-.6937-00	.3447-00	.5079-00	.1601-00	.2043-00	.8001-00	.2050-00	.5124-00

M4 - SUBSHELL

.02	-.2772-00	-.2287-00	-.3387-00	.4520-00	.7936-00	.3406-01	.1341-00	.1321+01	-.3873-00	.6256-00
.05	-.3732-00	-.2627-00	-.4656-00	.4509-00	.7130-00	.4708-01	.1044+00	.2359-00	-.2221-01	.6003-00
.10	-.4387-00	-.2991-00	-.6686-00	.4508-00	.5859-00	.5165-01	.4778-01	-.1042+01	.1906-00	.5628-00
.15	-.4130-00	-.3039-00	-.7847-00	.4527-00	.4993-00	.5486-01	.1240-01	-.1880+01	.2769-00	.5384-00
.20	-.3358-00	-.3130-00	-.9292-00	.4628-00	.4236-00	.5026-01	-.2369-01	-.2713+01	.5516-00	.5197-00
.30	-.2372-00	-.3040-00	-.1077+01	.4667-00	.2934-00	.6710-01	-.5349-01	-.3675+01	.4156-00	.7908-00
.40	-.1683-00	-.2936-00	-.1188+01	.4737-00	.1912-00	.7521-01	-.7239-01	-.4351+01	.4508-00	.4635-00
.50	-.1172-00	-.2837-00	-.1279+01	.4306-00	.1012+00	.8352-01	-.7542-01	-.4623+01	.4722-00	.4406-00
.70	-.4759-01	-.2664-00	-.1423+01	.4934-00	-.5215-01	.1001-00	-.7849-01	-.5395+01	.4955-00	.4173-00
1.00	.1993-01	-.2460-00	-.1593+01	.5106-00	-.2412-00	.1256-00	-.5959-01	-.5705+01	.5070-00	.3768-00

M5 - SUBSHELL

.02	-.7015-00	-.3560-01	.4958-02	.5459-01	.7807-00	.3290-00	.2782-00	.1006+01	-.5376-02	.2495-01
.05	-.2368-00	-.5588-01	-.9780-01	.6655-01	.7179-00	.2902-00	.2419-00	.6843-00	-.2824-02	.1163-01
.10	.1033+00	-.8815-01	-.2568-00	.8295-01	.6224-00	.1936-00	.1374-00	.7617-01	-.4303-02	-.1515-01
.15	.2363-00	-.1125+00	-.3781-00	.9702-01	.5388-00	.1436-00	.5562-01	-.2286-00	-.8162-02	-.2932-01
.20	.5029-00	-.1295-00	-.4687-00	.1097+00	.5074-00	.9992-01	-.1163-02	-.6463-00	-.1050-01	-.6359-01
.30	.3419-00	-.1520-00	-.6104-00	.1267-00	.4243-00	.1097+00	-.4182-01	-.9773-00	-.1204-01	-.9322-01
.40	.3476-00	-.1617-00	-.7240-00	.1422-00	.3564-00	.1205-00	-.6323-01	-.1214-01	-.1904-01	-.1216+00
.50	.3437-00	-.1638-00	-.8258-00	.1524-00	.2995-00	.1554-00	-.6739-01	-.1367+01	-.2462-01	-.1459-00
.70	.5345-00	-.1533-00	-.1019+01	.1665-00	.1955-00	.2190-00	-.4581-01	-.1530-01	-.3265-01	-.1273-00
1.00	.3387-00	-.1170-00	-.1285-01	.1814-00	.5961-01	.3113-00	.2660-01	-.2569-01	-.2248-01	-.2371-00

TABLE 4.1

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DYNAMIC CORRECTION COEFFICIENTS

OF THE

PARTICLE PARAMETER B2

FOR E1 AND M2 TRANSITIONS

TABLE 4.1.01

TABLE 4.1.01						Z=60				TOTAL SHELL UC PP	
K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.10	-.378-01	-.534-11	.330-05	-.119-03	.278-08	.376-00	-.634-03	-.750-02	-.286-02	.481-03	-.151-01
.15	-.453-01	-.753-11	.468-05	-.143-03	.414-08	.246-00	-.437-03	-.736-02	-.185-02	.328-05	-.153-01
.20	-.533-01	-.101-10	.626-05	-.166-03	.570-03	.209-00	-.382-03	-.733-02	-.156-02	.284-05	-.155-01
.30	-.684-01	-.170-10	.996-05	-.212-03	.975-00	.163-00	-.322-03	-.722-02	-.120-02	.236-05	-.159-01
.40	-.873-01	-.268-10	.145-04	-.255-03	.151-07	.144-00	-.302-03	-.716-02	-.105-02	.219-05	-.161-01
.50	-.101-07	-.401-10	.700-04	-.307-03	.220-07	.132-00	-.294-03	-.713-02	-.965-03	.212-05	-.164-01
.70	-.139-00	-.819-10	.344-04	-.413-03	.418-07	.119-00	-.294-03	-.712-02	-.867-03	.211-05	-.167-01
1.00	-.210-00	-.203-09	.679-04	-.608-03	.941-07	.109-00	-.308-03	-.716-02	-.800-03	.222-05	-.172-01
TOTAL L - SHELL											
.02	.619-02	-.119-10	.417-05	-.149-03	.352-08	.265-00	-.507-03	-.881-03	-.251-02	.424-05	-.148-01
.05	-.234-01	-.122-10	.474-05	-.133-03	.410-08	.184-00	-.538-03	-.252-02	-.158-02	.273-05	-.146-01
.10	-.452-01	-.175-10	.647-05	-.150-03	.575-08	.170-00	-.306-03	-.351-02	-.134-02	.238-05	-.147-01
.15	-.593-01	-.287-10	.844-05	-.173-03	.774-08	.162-00	-.293-03	-.425-02	-.122-02	.224-05	-.148-01
.20	-.697-01	-.475-10	.105-04	-.197-03	.995-09	.156-00	-.290-03	-.479-02	-.115-02	.210-05	-.150-01
.30	-.876-01	-.117-09	.153-04	-.246-03	.154-07	.145-00	-.287-03	-.552-02	-.106-02	.213-05	-.153-01
.40	-.105+00	-.243-09	.212-04	-.297-03	.223-07	.138-00	-.289-03	-.595-02	-.100-02	.213-05	-.156-01
.50	-.124+00	-.452-09	.281-04	-.349-03	.311-07	.132-00	-.293-03	-.624-02	-.959-03	.215-05	-.159-01
.70	-.166-00	-.120-08	.461-04	-.465-03	.558-07	.124-00	-.304-03	-.660-02	-.903-03	.223-05	-.164-01
1.00	-.245-00	-.065-08	.972-04	-.681-03	.119-06	.115+00	-.325-03	-.652-02	-.856-03	.241-05	-.171-01

TABLE 4.1.02

Z=64

TOTAL SHELL DC PP

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	O1(M2)
K - SHELL											
.15	-.573-01	-.119-10	.735-05	-.177-03	.635-08	.319-00	-.555-03	-.866-02	-.283-02	.489-05	-.178-01
.20	-.671-01	-.154-10	.975-05	-.204-03	.865-08	.267-00	-.476-03	-.863-02	-.235-02	.417-05	-.181-01
.30	-.854-01	-.242-10	.153-04	-.259-03	.146-07	.205-00	-.396-03	-.853-02	-.179-02	.342-05	-.184-01
.40	-.104+00	-.359-10	.219-04	-.315-03	.224-07	.177-00	-.367-03	-.845-02	-.155-02	.313-05	-.186-01
.50	-.124+00	-.510-10	.298-04	-.373-03	.324-07	.161-00	-.356-03	-.843-02	-.139-02	.303-05	-.190-01
.70	-.168-00	-.949-10	.505-04	-.498-03	.610-07	.144-00	-.353-03	-.842-02	-.124-02	.300-05	-.195-01
1.00	-.250-00	-.212-09	.975-04	-.727-03	.135-06	.131-00	-.369-03	-.848-02	-.114-02	.315-05	-.202-01

TOTAL L - SHELL

.05	-.240-01	-.214-10	.809-05	-.178-03	.692-08	.245-00	-.455-03	-.305-02	-.253-02	.434-05	-.172-01
.10	-.553-01	-.271-10	.108-04	-.194-03	.948-08	.218-00	-.388-03	-.421-02	-.204-02	.359-05	-.172-01
.15	-.733-01	-.383-10	.138-04	-.220-03	.126-07	.204-00	-.360-03	-.504-02	-.183-02	.333-05	-.174-01
.20	-.869-01	-.560-10	.171-04	-.248-03	.160-07	.194-00	-.359-03	-.566-02	-.171-02	.321-05	-.175-01
.30	-.109+00	-.119-09	.243-04	-.308-03	.243-07	.179-00	-.351-03	-.650-02	-.154-02	.310-05	-.179-01
.40	-.131-00	-.230-09	.330-04	-.369-03	.349-07	.169-00	-.352-03	-.700-02	-.145-02	.308-05	-.182-01
.50	-.154-00	-.407-09	.433-04	-.432-03	.431-07	.161-00	-.356-03	-.735-02	-.139-02	.310-05	-.186-01
.70	-.203-00	-.103-08	.696-04	-.570-03	.850-07	.150-00	-.362-03	-.779-02	-.130-02	.321-05	-.192-01
1.00	-.294-00	-.303-08	.128-03	-.826-03	.176-06	.139-00	-.394-03	-.819-02	-.125-02	.346-05	-.200-01

TABLE 4.1.03

Z=68

TOTAL SHELL DC PP

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.15	-.731-01	-.192-10	.117-04	-.220-03	.976-08	.435-00	-.730-03	-.102-01	-.451-02	.754-05	-.207-01
.20	-.837-01	-.244-10	.152-04	-.254-03	.134-07	.326-00	-.579-03	-.101-01	-.337-02	.594-05	-.210-01
.30	-.107+00	-.363-10	.235-04	-.319-03	.221-07	.258-00	-.488-03	-.100-01	-.264-02	.495-05	-.214-01
.40	-.129-00	-.514-10	.333-04	-.326-03	.337-07	.218-00	-.447-03	-.996-02	-.222-02	.450-05	-.216-01
.50	-.152-00	-.699-10	.450-04	-.455-03	.483-07	.198-00	-.431-03	-.993-02	-.201-02	.433-05	-.221-01
.70	-.204-00	-.120-09	.746-04	-.604-03	.897-07	.175-00	-.426-03	-.994-02	-.178-02	.427-05	-.227-01
1.00	-.294-00	-.243-09	.141-03	-.874-03	.195-06	.157-00	-.444-03	-.100-01	-.162-02	.448-05	-.235-01

TOTAL L - SHELL

.05	-.232-01	-.384-10	.140-04	-.239-03	.118-07	.330-00	-.613-03	-.369-02	-.407-02	.690-05	-.202-01
.10	-.643-01	-.449-10	.179-04	-.253-03	.158-07	.266-00	-.485-03	-.529-02	-.299-02	.529-05	-.202-01
.15	-.899-01	-.568-10	.228-04	-.282-03	.205-07	.258-00	-.466-03	-.600-02	-.277-02	.498-05	-.209-01
.20	-.100-00	-.746-10	.278-04	-.316-03	.258-07	.243-00	-.449-03	-.669-02	-.255-02	.474-05	-.205-01
.30	-.136-00	-.134-09	.389-04	-.368-03	.387-07	.221-00	-.433-03	-.766-02	-.227-02	.452-05	-.208-01
.40	-.163-00	-.235-09	.521-04	-.461-03	.546-07	.203-00	-.432-03	-.824-02	-.212-02	.448-05	-.212-01
.50	-.190-00	-.390-09	.674-04	-.537-03	.750-07	.197-00	-.435-03	-.863-02	-.202-02	.450-05	-.216-01
.70	-.246-00	-.925-09	.106-03	-.703-03	.130-06	.183-00	-.449-03	-.919-02	-.168-02	.464-05	-.224-01
1.00	-.354-00	-.259-08	.191-03	-.101-02	.267-06	.168-00	-.479-03	-.968-02	-.176-02	.499-05	-.234-01

TABLE 4.1.04

Z=72

TOTAL SHELL DC PP

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	O1(2)
K - SHELL											
.15	-.935-01	-.319-10	.188-04	-.276-03	.152-07	.590-00	-.960-03	-.120-01	-.715-02	.116-04	-.241-01
.20	-.106-00	-.395-10	.241-04	-.317-03	.207-07	.424-00	-.734-03	-.119-01	-.513-02	.683-05	-.244-01
.30	-.135-00	-.567-10	.368-04	-.395-03	.339-07	.326-00	-.605-03	-.118-01	-.393-02	.722-05	-.249-01
.40	-.160-00	-.776-10	.517-04	-.476-03	.512-07	.272-00	-.549-03	-.117-01	-.326-02	.651-05	-.255-01
.50	-.186-00	-.102-09	.687-04	-.559-03	.731-07	.244-00	-.528-03	-.117-01	-.295-02	.624-05	-.257-01
.70	-.246-00	-.163-09	.112-03	-.737-03	.134-06	.214-00	-.519-03	-.117-01	-.257-02	.614-05	-.265-01
1.00	-.356-00	-.703-09	.207-03	-.106-02	.287-06	.190-00	-.536-03	-.118-01	-.232-02	.642-05	-.274-01

TOTAL L - SHELL

.05	-.178-01	-.700-10	.243-04	-.323-03	.204-07	.438-00	-.820-03	-.468-02	-.648-02	.109-04	-.237-01
.10	-.741-01	-.774-10	.302-04	-.333-03	.265-07	.343-00	-.631-03	-.639-02	-.464-02	.314-05	-.237-01
.15	-.108-00	-.910-10	.376-04	-.365-03	.341-07	.317-00	-.525-03	-.727-02	-.408-02	.740-05	-.238-01
.20	-.135-00	-.111-09	.458-04	-.405-03	.423-07	.306-00	-.567-03	-.796-02	-.363-02	.708-05	-.240-01
.30	-.170-00	-.171-09	.629-04	-.492-03	.624-07	.275-00	-.540-03	-.905-02	-.530-02	.666-05	-.244-01
.40	-.203-00	-.266-09	.830-04	-.561-03	.874-07	.257-00	-.535-03	-.972-02	-.311-02	.556-05	-.248-01
.50	-.236-00	-.408-09	.106-03	-.673-03	.118-06	.243-00	-.537-03	-.102-01	-.295-02	.657-05	-.253-01
.70	-.304-00	-.379-09	.164-03	-.874-03	.202-06	.224-00	-.552-03	-.108-01	-.275-02	.676-05	-.261-01
1.00	-.426-00	-.228-08	.286-03	-.124-02	.406-06	.205-00	-.587-03	-.114-01	-.255-02	.726-05	-.273-01

TOTAL M - SHELL

.02	.125-01	-.910-10	.286-04	-.332-03	.238-07	.747-00	-.141-02	-.124-02	-.115-01	.191-04	-.241-01
.05	-.361-01	-.847-10	.287-04	-.328-03	.246-07	.445-00	-.836-03	-.491-02	-.645-02	.111-04	-.239-01
.10	-.355-01	-.107-09	.347-04	-.350-03	.308-07	.348-00	-.641-03	-.644-02	-.466-02	.828-05	-.239-01
.15	-.116-00	-.159-09	.421-04	-.386-03	.386-07	.317-00	-.587-03	-.732-02	-.406-02	.746-05	-.240-01
.20	-.140-00	-.248-09	.507-04	-.426-03	.473-07	.302-00	-.567-03	-.796-02	-.378-02	.712-05	-.241-01
.30	-.176-00	-.577-09	.635-04	-.512-03	.682-07	.276-00	-.547-03	-.896-02	-.539-02	.679-05	-.245-01
.40	-.211-00	-.117-08	.895-04	-.601-03	.942-07	.259-00	-.544-03	-.963-02	-.315-02	.670-05	-.249-01
.50	-.244-00	-.211-08	.114-03	-.695-03	.126-06	.245-00	-.546-03	-.101-01	-.299-02	.672-05	-.254-01
.70	-.314-00	-.537-08	.175-03	-.898-03	.211-06	.226-00	-.562-03	-.108-01	-.277-02	.692-05	-.262-01
1.00	-.437-00	-.155-07	.301-03	-.127-02	.416-06	.208-00	-.598-03	-.114-01	-.259-02	.744-05	-.274-01

TABLE 4.1.05

Z=76

TOTAL SHELL DC PP

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.15	-.121+00	-.535-10	.303-04	-.345-03	.236-07	.842-00	-.131-02	-.141-01	-.118-01	.184-04	-.280-01
.20	-.136-00	-.656-10	.384-04	-.395-03	.321-07	.556-00	-.934-03	-.139-01	-.786-02	.131-04	-.283-01
.30	-.167-00	-.916-10	.572-04	-.492-03	.524-07	.400-00	-.739-03	-.138-01	-.565-02	.103-04	-.298-01
.40	-.200-00	-.121-09	.796-04	-.508-03	.780-07	.340-00	-.675-03	-.138-01	-.479-02	.939-05	-.294-01
.50	-.233-00	-.154-09	.105-03	-.637-03	.110-06	.303-00	-.646-03	-.137-01	-.427-02	.897-05	-.299-01
.70	-.303-00	-.236-09	.169-03	-.900-03	.200-06	.262-00	-.632-03	-.138-01	-.371-02	.079-05	-.307-01
1.00	-.427-00	-.406-09	.305-03	-.128-02	.421-06	.231-00	-.653-03	-.139-01	-.331-02	.917-05	-.319-01

TOTAL L - SHELL

.05	-.640-02	-.130-09	.427-04	-.434-03	.353-07	.610-00	-.115-02	-.549-02	-.108-01	.178-04	-.279-01
.10	-.822-01	-.137-09	.511-04	-.437-03	.443-07	.444-00	-.825-03	-.771-02	-.721-02	.125-04	-.277-01
.15	-.125+00	-.154-09	.623-04	-.472-03	.562-07	.401-00	-.753-03	-.873-02	-.622-02	.112-04	-.279-01
.20	-.158-00	-.179-09	.742-04	-.523-03	.701-07	.366-00	-.701-03	-.959-02	-.546-02	.103-04	-.280-01
.30	-.210-00	-.242-09	.102-03	-.626-03	.101-06	.342-00	-.674-03	-.107-01	-.497-02	.981-05	-.284-01
.40	-.251-00	-.339-09	.133-03	-.733-03	.139-06	.318-00	-.664-03	-.115-01	-.457-02	.961-05	-.289-01
.50	-.291-00	-.476-09	.167-03	-.845-03	.187-06	.300-00	-.665-03	-.120-01	-.430-02	.960-05	-.294-01
.70	-.372-00	-.907-09	.253-03	-.109-02	.314-06	.274-00	-.680-03	-.128-01	-.396-02	.984-05	-.304-01
1.00	-.510-00	-.213-08	.430-03	-.152-02	.610-06	.249-00	-.721-03	-.135-01	-.367-02	.105-04	-.318-01

TOTAL M - SHELL

.02	.245-01	-.175-09	.525-04	-.440-03	.430-07	.113+01	-.212-02	-.133-02	-.204-01	.335-04	-.283-01
.05	-.377-01	-.155-09	.508-04	-.440-03	.429-07	.603-00	-.112-02	-.607-02	-.103-01	.174-04	-.281-01
.10	-.987-01	-.173-09	.592-04	-.461-03	.523-07	.451-00	-.839-03	-.783-02	-.723-02	.126-04	-.280-01
.15	-.140-00	-.222-09	.707-04	-.503-03	.645-07	.403-00	-.754-03	-.880-02	-.619-02	.113-04	-.281-01
.20	-.171-00	-.305-09	.832-04	-.551-03	.785-07	.375-00	-.714-03	-.953-02	-.560-02	.106-04	-.282-01
.30	-.220-00	-.598-09	.112-03	-.653-03	.111-06	.345-00	-.686-03	-.106-01	-.503-02	.100-04	-.286-01
.40	-.262-00	-.111-08	.144-03	-.762-03	.152-06	.321-00	-.676-03	-.114-01	-.464-02	.986-05	-.291-01
.50	-.302-00	-.191-08	.180-03	-.875-03	.202-06	.303-00	-.677-03	-.119-01	-.437-02	.985-05	-.296-01
.70	-.384-00	-.463-08	.269-03	-.112-02	.333-06	.278-00	-.694-03	-.127-01	-.403-02	.101-04	-.305-01
1.00	-.525-00	-.129-07	.453-03	-.156-02	.644-06	.253-00	-.736-03	-.135-01	-.374-02	.108-04	-.319-01

TABLE 4.1.06

Z=80

TOTAL SHELL DC PP

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.20	-.174-00	-.110-09	.616-04	-.490-03	.492-07	.758-00	-.122-02	-.162-01	-.124-01	.199-04	-.327-01
.30	-.212-00	-.150-09	.899-04	-.608-03	.799-07	.511-00	-.917-03	-.161-01	-.842-02	.150-04	-.333-01
.40	-.246-00	-.194-09	.122-03	-.727-03	.119-06	.414-00	-.820-03	-.160-01	-.681-02	.133-04	-.339-01
.50	-.290-00	-.241-09	.161-03	-.843-03	.166-06	.377-00	-.788-03	-.161-01	-.621-02	.126-04	-.345-01
.70	-.371-00	-.353-09	.254-03	-.110-02	.297-06	.322-00	-.768-03	-.161-01	-.533-02	.125-04	-.355-01
1.00	-.510-00	-.573-09	.447-03	-.154-02	.616-06	.280-00	-.791-03	-.163-01	-.472-02	.130-04	-.369-01

TOTAL L - SHELL

.05	.157-01	-.243-09	.746-04	-.581-03	.607-07	.862-00	-.162-02	-.630-02	-.180-01	.294-04	-.326-01
.10	-.065-01	-.245-09	.859-04	-.573-03	.737-07	.576-00	-.108-02	-.930-02	-.112-01	.192-04	-.324-01
.15	-.143-00	-.267-09	.103-03	-.609-03	.918-07	.508-00	-.961-03	-.104-01	-.940-02	.168-04	-.325-01
.20	-.189-00	-.299-09	.121-03	-.669-03	.114-06	.459-00	-.883-03	-.114-01	-.815-02	.153-04	-.326-01
.30	-.251-00	-.376-09	.161-03	-.794-03	.161-06	.412-00	-.830-03	-.126-01	-.709-02	.142-04	-.330-01
.40	-.308-00	-.479-09	.210-03	-.921-03	.219-06	.393-00	-.821-03	-.134-01	-.668-02	.140-04	-.336-01
.50	-.356-00	-.619-09	.262-03	-.106-02	.291-06	.369-00	-.819-03	-.141-01	-.625-02	.139-04	-.341-01
.70	-.451-00	-.104-08	.387-03	-.134-02	.481-06	.335-00	-.834-03	-.130-01	-.570-02	.142-04	-.352-01
1.00	-.607-00	-.214-08	.640-03	-.186-02	.923-06	.303-00	-.882-03	-.158-01	-.525-02	.151-04	-.368-01

TOTAL M - SHELL

.02	.413-01	-.338-09	.964-04	-.576-03	.776-07	.175+01	-.323-02	-.299-03	-.368-01	.594-04	-.332-01
.05	-.314-01	-.286-09	.890-04	-.584-03	.743-07	.824-00	-.154-02	-.732-02	-.168-01	.280-04	-.329-01
.10	-.111+00	-.297-09	.101-03	-.606-03	.880-07	.589-00	-.110-02	-.946-02	-.113-01	.197-04	-.327-01
.15	-.165-00	-.346-09	.118-03	-.654-03	.107-06	.513-00	-.968-03	-.106-01	-.939-02	.170-04	-.328-01
.20	-.206-00	-.426-09	.138-03	-.710-03	.129-06	.473-00	-.907-03	-.114-01	-.842-02	.158-04	-.329-01
.30	-.268-00	-.697-09	.181-03	-.834-03	.181-06	.425-00	-.856-03	-.126-01	-.735-02	.147-04	-.335-01
.40	-.322-00	-.115-08	.230-03	-.964-03	.244-06	.398-00	-.841-03	-.134-01	-.680-02	.144-04	-.338-01
.50	-.371-00	-.185-08	.285-03	-.110-02	.320-06	.374-00	-.839-03	-.140-01	-.638-02	.144-04	-.344-01
.70	-.467-00	-.415-08	.416-03	-.140-02	.520-06	.340-00	-.856-03	-.149-01	-.583-02	.147-04	-.355-01
1.00	-.626-00	-.109-07	.681-03	-.192-02	.984-06	.308-00	-.905-03	-.159-01	-.537-02	.157-04	-.371-01

TABLE 4.1.07

Z=84

TOTAL SHELL DC PP

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.20	-.224-00	-.189-09	.982-04	-.607-03	.751-07	.102+01	-.156-02	-.188-01	-.193-01	.295-04	-.377-01
.30	-.269-00	-.248-09	.141-03	-.748-03	.121-06	.661-00	-.114-02	-.187-01	-.126-01	.216-04	-.364-01
.40	-.309-00	-.316-09	.189-03	-.891-03	.179-06	.522-00	-.100-02	-.187-01	-.999-02	.190-04	-.391-01
.50	-.352-00	-.387-09	.243-03	-.103-02	.250-06	.456-00	-.953-03	-.187-01	-.876-02	.180-04	-.397-01
.70	-.441-00	-.545-09	.374-03	-.134-02	.440-06	.386-00	-.927-03	-.188-01	-.747-02	.176-04	-.409-01
1.00	-.586-00	-.835-09	.636-03	-.186-02	.893-06	.331-00	-.954-03	-.190-01	-.651-02	.183-04	-.425-01
TOTAL L - SHELL											
.05	.486-01	-.466-09	.133-03	-.772-03	.106-06	.126+01	-.234-02	-.695-02	-.308-01	.492-04	-.381-01
.10	-.888-01	-.449-09	.147-03	-.753-03	.123-06	.757-00	-.141-02	-.111-01	-.174-01	.292-04	-.378-01
.15	-.167-00	-.476-09	.172-03	-.791-03	.151-06	.657-00	-.123-02	-.124-01	-.144-01	.252-04	-.378-01
.20	-.225-00	-.515-09	.201-03	-.856-03	.183-06	.597-00	-.113-02	-.134-01	-.126-01	.229-04	-.380-01
.30	-.303-00	-.614-09	.260-03	-.101-02	.259-06	.513-00	-.104-02	-.149-01	-.103-01	.208-04	-.384-01
.40	-.367-00	-.740-09	.330-03	-.116-02	.350-06	.474-00	-.101-02	-.158-01	-.951-02	.202-04	-.389-01
.50	-.424-00	-.896-09	.406-03	-.133-02	.459-06	.444-00	-.101-02	-.165-01	-.886-02	.200-04	-.395-01
.70	-.529-00	-.132-08	.583-03	-.167-02	.743-06	.400-00	-.102-02	-.175-01	-.801-02	.204-04	-.408-01
1.00	-.689-00	-.235-08	.926-03	-.227-02	.139-05	.357-00	-.108-02	-.185-01	-.727-02	.218-04	-.426-01
TOTAL M - SHELL											
.02	.642-01	-.662-09	.177-03	-.745-03	.140-06	.280+01	-.506-02	.194-02	-.683-01	.108-03	-.387-01
.05	-.168-01	-.536-09	.156-03	-.772-03	.128-06	.114+01	-.212-02	-.873-02	-.273-01	.450-04	-.384-01
.10	-.112+00	-.527-09	.170-03	-.791-03	.147-06	.762-00	-.145-02	-.115-01	-.175-01	.303-04	-.382-01
.15	-.191-00	-.579-09	.198-03	-.848-03	.177-06	.688-00	-.125-02	-.126-01	-.143-01	.256-04	-.382-01
.20	-.241-00	-.663-09	.225-03	-.915-03	.212-06	.583-00	-.114-02	-.136-01	-.123-01	.233-04	-.383-01
.30	-.321-00	-.927-09	.290-03	-.106-02	.293-06	.519-00	-.106-02	-.148-01	-.106-01	.215-04	-.387-01
.40	-.385-00	-.135-08	.362-03	-.122-02	.390-06	.479-00	-.104-02	-.158-01	-.968-02	.209-04	-.392-01
.50	-.441-00	-.197-08	.442-03	-.139-02	.507-06	.449-00	-.103-02	-.165-01	-.902-02	.207-04	-.398-01
.70	-.547-00	-.396-08	.628-03	-.174-02	.807-06	.406-00	-.105-02	-.175-01	-.819-02	.211-04	-.410-01
1.00	-.709-00	-.954-08	.984-03	-.235-02	.148-05	.363-00	-.111-02	-.186-01	-.744-02	.225-04	-.428-01

TABLE 4.1.08

						Z=88				TOTAL SHELL DC PP	
K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.30	-.344-00	-.426-09	.229-03	-.940-03	.190-06	.860-00	-.144-02	-.218-01	-.191-01	.318-04	-.445-01
.40	-.390-00	-.532-09	.301-03	-.112-02	.280-06	.665-00	-.125-02	-.218-01	-.143-01	.276-04	-.452-01
.50	-.441-00	-.639-09	.384-03	-.129-02	.388-06	.576-00	-.118-02	-.218-01	-.129-01	.261-04	-.459-01
.70	-.542-00	-.871-09	.578-03	-.165-02	.675-06	.480-00	-.114-02	-.220-01	-.109-01	.254-04	-.473-01
1.00	-.705-00	-.128-08	.958-03	-.227-02	.134-05	.407-00	-.117-02	-.223-01	-.939-02	.263-04	-.492-01
TOTAL L - SHELL											
.05	.922-01	-.921-09	.249-03	-.104-02	.193-06	.205+01	-.368-02	-.645-02	-.582-01	.902-04	-.448-01
.10	-.734-01	-.840-09	.255-03	-.100-02	.213-06	.100+01	-.190-02	-.134-01	-.275-01	.463-04	-.444-01
.15	-.171-00	-.868-09	.292-03	-.104-02	.256-06	.839-00	-.163-02	-.149-01	-.222-01	.391-04	-.443-01
.20	-.258-00	-.921-09	.338-03	-.112-02	.308-06	.757-00	-.147-02	-.160-01	-.191-01	.349-04	-.444-01
.30	-.261-00	-.105-08	.429-03	-.130-02	.428-06	.642-00	-.132-02	-.176-01	-.156-01	.312-04	-.446-01
.40	-.443-00	-.121-08	.535-03	-.149-02	.573-06	.589-00	-.128-02	-.187-01	-.140-01	.300-04	-.454-01
.50	-.512-00	-.140-08	.651-03	-.169-02	.743-06	.549-00	-.127-02	-.195-01	-.130-01	.297-04	-.461-01
.70	-.636-00	-.188-08	.916-03	-.211-02	.118-05	.493-00	-.128-02	-.206-01	-.117-01	.301-04	-.474-01
1.00	-.817-00	-.292-08	.142-02	-.263-02	.215-05	.438-00	-.135-02	-.218-01	-.105-01	.320-04	-.495-01
TOTAL M - SHELL											
.02	.934-01	-.133-08	.338-03	-.976-03	.262-06	.491+01	-.869-02	.726-02	-.139-00	.216-03	-.455-01
.05	.152-01	-.103-08	.280-03	-.104-02	.229-06	.161+01	-.305-02	-.103-01	-.463-01	.759-04	-.450-01
.10	-.127-00	-.984-09	.300-03	-.106-02	.259-06	.101+01	-.191-02	-.139-01	-.271-01	.469-04	-.448-01
.15	-.215-00	-.103-08	.338-03	-.112-02	.304-06	.845-00	-.163-02	-.153-01	-.220-01	.396-04	-.448-01
.20	-.280-00	-.112-08	.379-03	-.120-02	.361-06	.737-00	-.148-02	-.163-01	-.186-01	.355-04	-.449-01
.30	-.334-00	-.139-08	.480-03	-.138-02	.489-06	.650-00	-.136-02	-.176-01	-.159-01	.323-04	-.453-01
.40	-.464-00	-.180-08	.591-03	-.157-02	.644-06	.596-00	-.132-02	-.186-01	-.143-01	.312-04	-.458-01
.50	-.533-00	-.238-08	.713-03	-.177-02	.827-06	.556-00	-.131-02	-.194-01	-.133-01	.309-04	-.465-01
.70	-.657-00	-.415-08	.990-03	-.220-02	.129-05	.501-00	-.132-02	-.206-01	-.120-01	.313-04	-.478-01
1.00	-.840-00	-.888-08	.151-02	-.294-02	.232-05	.445-00	-.139-02	-.219-01	-.108-01	.332-04	-.498-01

TABLE 4.1.09

Z=92

TOTAL SHELL DC PF

K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.30	-.440-00	-.739-09	.364-03	-.116-02	.289-06	.113+01	-.180-02	-.253-01	-.289-01	.459-04	-.511-01
.40	-.491-00	-.901-09	.471-03	-.137-02	.424-06	.843-00	-.154-02	-.253-01	-.210-01	.392-04	-.519-01
.50	-.549-00	-.106-08	.594-03	-.158-02	.584-06	.724-00	-.145-02	-.253-01	-.188-01	.369-04	-.527-01
.70	-.661-00	-.141-08	.874-03	-.201-02	.100-05	.593-00	-.139-02	-.255-01	-.156-01	.357-04	-.542-01
1.00	-.844-00	-.199-08	.142-02	-.274-02	.196-05	.499-00	-.142-02	-.258-01	-.134-01	.370-04	-.564-01
TOTAL L - SHELL											
.05	.136-00	-.186-08	.462-03	-.137-02	.348-06	.332+01	-.569-02	-.522-02	-.107+00	.161-03	-.523-01
.10	-.345-01	-.139-08	.436-03	-.132-02	.359-06	.134+01	-.255-02	-.159-01	-.436-01	.721-04	-.516-01
.13	-.185-00	-.161-08	.493-03	-.136-02	.426-06	.107+01	-.207-02	-.178-01	-.333-01	.576-04	-.515-01
.20	-.281-00	-.167-08	.556-03	-.144-02	.503-06	.956-00	-.188-02	-.189-01	-.287-01	.519-04	-.516-01
.30	-.416-00	-.185-08	.691-03	-.166-02	.689-06	.795-00	-.166-02	-.207-01	-.229-01	.456-04	-.519-01
.40	-.520-00	-.206-08	.650-03	-.189-02	.909-06	.724-00	-.160-02	-.219-01	-.204-01	.437-04	-.525-01
.50	-.603-00	-.229-08	.102-02	-.212-02	.117-05	.672-00	-.158-02	-.227-01	-.187-01	.430-04	-.532-01
.70	-.752-00	-.285-08	.141-02	-.262-02	.182-05	.604-00	-.159-02	-.240-01	-.168-01	.434-04	-.547-01
1.00	-.951-00	-.399-08	.211-02	-.346-02	.323-05	.533-00	-.166-02	-.254-01	-.150-01	.459-04	-.570-01
TOTAL M - SHELL											
.02	.130-00	-.270-08	.632-03	-.125-02	.481-06	.913+01	-.158-01	.180-01	-.297-00	.452-03	-.531-01
.05	.622-01	-.200-08	.500-03	-.138-02	.404-06	.230+01	-.434-02	-.120-01	-.773-01	.125-03	-.525-01
.10	-.113+00	-.184-08	.514-03	-.140-02	.440-06	.132+01	-.255-02	-.167-01	-.423-01	.725-04	-.521-01
.15	-.230-00	-.187-08	.571-03	-.145-02	.511-06	.109+01	-.215-02	-.181-01	-.337-01	.604-04	-.521-01
.20	-.314-00	-.197-08	.629-03	-.155-02	.599-06	.930-00	-.191-02	-.193-01	-.279-01	.532-04	-.522-01
.30	-.446-00	-.225-08	.777-03	-.177-02	.794-06	.805-00	-.172-02	-.208-01	-.233-01	.476-04	-.525-01
.40	-.545-00	-.267-08	.943-03	-.200-02	.103-05	.733-00	-.165-02	-.219-01	-.208-01	.456-04	-.531-01
.50	-.628-00	-.323-08	.112-02	-.224-02	.131-05	.682-00	-.163-02	-.228-01	-.192-01	.449-04	-.538-01
.70	-.777-00	-.487-08	.153-02	-.274-02	.201-05	.614-00	-.164-02	-.241-01	-.172-01	.453-04	-.552-01
1.00	-.977-00	-.898-08	.226-02	-.361-02	.351-05	.542-00	-.172-02	-.255-01	-.154-01	.479-04	-.574-01

TABLE 4.1.10

						Z=96				TOTAL SHELL DC PP	
K	P1(E1)	P2(E1)	P3(E1)	P4(E1)	P5(E1)	X1(E1M2)	X2(E1M2)	X3(E1M2)	X4(E1M2)	X5(E1M2)	Q1(M2)
K - SHELL											
.30	-.564-00	-.132-08	.586-03	-.145-02	.444-06	.149+01	-.227-02	-.292-01	-.441-01	.668-04	-.587-01
.40	-.630-00	-.156-08	.754-03	-.170-02	.645-06	.111+01	-.192-02	-.292-01	-.331-01	.566-04	-.596-01
.50	-.701-00	-.180-08	.942-03	-.195-02	.883-06	.940-00	-.179-02	-.293-01	-.282-01	.529-04	-.605-01
.70	-.804-00	-.232-08	.133-02	-.247-02	.151-05	.732-00	-.170-02	-.296-01	-.224-01	.506-04	-.622-01
1.00	-.984-00	-.315-08	.208-02	-.332-02	.290-05	.601-00	-.173-02	-.300-01	-.188-01	.523-04	-.646-01
TOTAL L - SHELL											
.10	.510-01	-.308-08	.780-03	-.141-02	.650-06	.182+01	-.368-02	-.170-01	-.713-01	.119-03	-.604-01
.15	-.162-00	-.308-08	.857-03	-.157-02	.763-06	.135+01	-.279-02	-.202-01	-.504-01	.900-04	-.604-01
.20	-.304-00	-.314-08	.959-03	-.174-02	.891-06	.120+01	-.249-02	-.219-01	-.430-01	.801-04	-.604-01
.30	-.478-00	-.334-08	.118-02	-.206-02	.118-05	.102+01	-.220-02	-.242-01	-.351-01	.706-04	-.609-01
.40	-.610-00	-.362-08	.142-02	-.238-02	.154-05	.914-00	-.209-02	-.256-01	-.308-01	.669-04	-.615-01
.50	-.689-00	-.396-08	.164-02	-.270-02	.198-05	.813-00	-.203-02	-.267-01	-.271-01	.651-04	-.623-01
.70	-.849-00	-.465-08	.220-02	-.333-02	.301-05	.722-00	-.203-02	-.283-01	-.239-01	.654-04	-.629-01
1.00	-.107+01	-.594-08	.323-02	-.436-02	.520-05	.641-00	-.212-02	-.299-01	-.214-01	.690-04	-.665-01
TOTAL M - SHELL											
.02	.167-00	-.562-08	.122-02	-.159-02	.909-06	.217+02	-.364-01	.517-01	-.806-00	.121-02	-.620-01
.05	.140-00	-.398-08	.906-03	-.183-02	.726-06	.333+01	-.633-02	-.138-01	-.132-00	.211-03	-.613-01
.10	-.760-01	-.353-08	.893-03	-.185-02	.766-06	.174+01	-.344-02	-.201-01	-.662-01	.114-03	-.608-01
.15	-.254-00	-.353-08	.985-03	-.192-02	.679-06	.140+01	-.277-02	-.217-01	-.507-01	.907-04	-.607-01
.20	-.332-00	-.360-08	.105-02	-.202-02	.101-05	.117+01	-.247-02	-.230-01	-.417-01	.804-04	-.608-01
.30	-.507-00	-.388-08	.128-02	-.228-02	.131-05	.101+01	-.220-02	-.246-01	-.346-01	.712-04	-.611-01
.40	-.631-00	-.433-08	.153-02	-.256-02	.168-05	.909-00	-.210-02	-.258-01	-.306-01	.676-04	-.616-01
.50	-.731-00	-.490-08	.179-02	-.285-02	.212-05	.840-00	-.206-02	-.267-01	-.279-01	.662-04	-.623-01
.70	-.893-00	-.648-08	.236-02	-.346-02	.318-05	.744-00	-.206-02	-.282-01	-.246-01	.663-04	-.659-01
1.00	-.110+01	-.102-07	.338-02	-.447-02	.541-05	.652-00	-.214-02	-.298-01	-.216-01	.697-04	-.663-01

TABLE 4.2
=====

DYNAMIC CORRECTION COEFFICIENTS
OF THE
PARTICLE PARAMETER B2
FOR E2 AND M1 TRANSITIONS

TABLE 4.2.01

Z=60

TOTAL SHELL DC PP

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.10	-.221-01	.273-03	.592-06	-.101-03	.301-08	.754-01	-.200-03	-.964-02	-.730-03	.193-05	-.928-02
.15	-.242-01	.358-03	.804-06	-.122-03	.422-08	.230-01	-.116-03	-.122-01	-.424-03	.164-05	-.773-02
.20	-.259-01	.450-03	.104-05	-.142-03	.561-08	.100+00	-.231-03	-.607-02	-.720-03	.156-05	-.116-01
.30	-.281-01	.647-03	.157-05	-.183-03	.896-08	.735-01	-.190-03	-.812-02	-.617-03	.156-05	-.108-01
.40	-.290-01	.859-03	.218-05	-.225-03	.131-07	.699-01	-.183-03	-.830-02	-.601-03	.154-05	-.110-01
.50	-.286-01	.108-02	.207-05	-.266-03	.180-07	.640-01	-.178-03	-.846-02	-.559-03	.152-05	-.113-01
.70	-.257-01	.151-02	.437-05	-.345-03	.299-07	.580-01	-.177-03	-.874-02	-.519-03	.153-05	-.118-01
1.00	-.172-01	.210-02	.678-05	-.451-03	.521-07	.538-01	-.186-03	-.902-02	-.498-03	.168-05	-.125-01

TOTAL L - SHELL

.02	.210-02	.415-04	.226-06	-.203-04	.824-10	-.543-02	.171-04	.449-04	.847-04	-.236-06	-.397-02
.05	.201-02	.878-04	.398-06	-.266-04	.381-09	-.260-02	.126-04	-.297-03	.622-04	-.200-06	.405-04
.10	.184-02	.196-03	.754-06	-.440-04	.132-08	.644-02	-.928-05	-.116-02	-.197-04	-.323-08	-.169-02
.15	-.504-05	.327-03	.114-05	-.656-04	.273-08	.169-01	-.354-04	-.219-02	-.117-03	.237-06	-.574-02
.20	-.320-02	.468-03	.154-05	-.896-04	.448-08	.247-01	-.562-04	-.307-02	-.190-03	.427-06	-.747-02
.30	-.808-02	.756-03	.235-05	-.139-03	.880-08	.365-01	-.878-04	-.445-02	-.304-03	.715-06	-.908-02
.40	-.111-01	.104-02	.319-05	-.187-03	.140-07	.430-01	-.111-03	-.560-02	-.371-03	.940-06	-.990-02
.50	-.125-01	.132-02	.405-05	-.233-03	.200-07	.467-01	-.128-03	-.644-02	-.413-03	.111-05	-.105-01
.70	-.117-01	.184-02	.505-05	-.319-03	.342-07	.500-01	-.152-03	-.753-02	-.458-03	.135-05	-.113-01
1.00	-.553-02	.251-02	.862-05	-.432-03	.604-07	.513-01	-.177-03	-.846-02	-.489-03	.163-05	-.123-01

TABLE 4.2.02

Z=64

TOTAL SHELL DC PP

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(F1)
K - SHELL											
.15	-.298-01	.565-03	.127-05	-.154-03	.665-08	.648-01	-.195-03	-.123-01	-.822-03	.244-05	-.107-01
.20	-.315-01	.701-03	.162-05	-.178-03	.875-08	-.865-00	.103-02	-.109+00	.214-02	.915-05	.909-02
.30	-.337-01	.994-03	.242-05	-.228-03	.138-07	.901-01	-.222-03	-.928-02	-.881-03	.211-05	-.129-01
.40	-.341-01	.130-02	.331-05	-.278-03	.199-07	.841-01	-.212-03	-.970-02	-.854-03	.209-05	-.151-01
.50	-.331-01	.161-02	.430-05	-.327-03	.270-07	.759-01	-.205-03	-.100-01	-.787-03	.206-05	-.133-01
.70	-.282-01	.222-02	.643-05	-.419-03	.441-07	.680-01	-.203-03	-.104-01	-.725-03	.210-05	-.139-01
1.00	-.166-01	.300-02	.974-05	-.538-03	.753-07	.628-01	-.213-03	-.107-01	-.692-03	.226-05	-.148-01
TOTAL L - SHELL											
.05	.410-02	.125-03	.570-06	-.308-04	.494-09	-.514-02	.225-04	-.238-03	.117-03	-.372-06	-.108-02
.10	.409-02	.271-03	.105-05	-.479-04	.172-08	.609-02	-.352-06	-.123-02	-.557-05	-.127-06	-.114-02
.15	.258-02	.451-03	.159-05	-.702-04	.359-08	.167-01	-.301-04	-.243-02	-.123-03	.200-06	-.551-02
.20	.294-03	.652-03	.217-05	-.963-04	.603-08	.258-01	-.538-04	-.345-02	-.226-03	.458-06	-.801-02
.30	-.411-02	.108-02	.338-05	-.153-03	.122-07	.399-01	-.901-04	-.507-02	-.389-03	.854-06	-.103-01
.40	-.710-02	.150-02	.463-05	-.209-03	.198-07	.480-01	-.119-03	-.645-02	-.489-03	.118-05	-.115-01
.50	-.839-02	.190-02	.591-05	-.264-03	.286-07	.520-01	-.140-03	-.747-02	-.554-03	.143-05	-.122-01
.70	-.694-02	.265-02	.851-05	-.367-03	.491-07	.574-01	-.169-03	-.884-02	-.625-03	.179-05	-.133-01
1.00	.752-03	.358-02	.124-04	-.499-03	.862-07	.594-01	-.200-03	-.100-01	-.676-03	.220-05	-.144-01

TABLE 4.2.03

						Z=68				TOTAL SHELL DC PP	
K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.15	-.369-01	.909-03	.203-05	-.195-03	.106-07	.884-01	-.245-03	-.139-01	-.124-02	.342-05	-.101-01
.20	-.385-01	.111-02	.256-05	-.225-03	.138-07	.605-01	-.209-03	-.165-01	-.110-02	.356-05	-.121-01
.30	-.403-01	.135-02	.375-05	-.286-03	.214-07	.116-00	-.205-03	-.100-01	-.130-02	.277-05	-.106-01
.40	-.399-01	.199-02	.308-05	-.346-03	.305-07	.104-00	-.246-03	-.111-01	-.124-02	.279-05	-.155-01
.50	-.378-01	.244-02	.651-05	-.404-03	.411-07	.911-01	-.235-03	-.117-01	-.112-02	.277-05	-.158-01
.70	-.302-01	.329-02	.954-05	-.511-03	.658-07	.803-01	-.233-03	-.122-01	-.102-02	.284-05	-.164-01
1.00	-.147-01	.433-02	.141-04	-.844-03	.110-06	.736-01	-.244-03	-.127-01	-.965-03	.308-05	-.174-01
TOTAL L - SHELL											
.05	.531-02	.181-03	.817-06	-.359-04	.646-09	-.788-02	.369-04	-.207-03	.198-03	-.666-06	-.273-02
.10	.708-02	.378-03	.146-05	-.520-04	.224-08	.380-02	.129-04	-.128-02	.481-04	-.363-06	-.112-03
.15	.646-02	.621-03	.221-05	-.749-04	.471-08	.160-01	-.211-04	-.269-02	-.115-03	.848-07	-.480-02
.20	.507-02	.902-03	.303-05	-.102-03	.804-08	.265-01	-.470-04	-.386-02	-.257-03	.433-06	-.627-02
.30	.181-02	.151-02	.478-05	-.164-03	.168-07	.434-01	-.997-04	-.377-02	-.491-03	.974-06	-.116-01
.40	-.580-03	.213-02	.662-05	-.230-03	.277-07	.535-01	-.124-03	-.741-02	-.640-03	.144-05	-.132-01
.50	-.138-02	.273-02	.850-05	-.294-03	.405-07	.597-01	-.150-03	-.866-02	-.739-03	.161-05	-.142-01
.70	.112-02	.381-02	.123-04	-.415-03	.702-07	.659-01	-.187-03	-.104-01	-.852-03	.234-05	-.155-01
1.00	.106-01	.511-02	.177-04	-.570-03	.120-06	.689-01	-.226-03	-.118-01	-.933-03	.294-05	-.169-01

TABLE 4.2.04

Z=72

TOTAL SHELL DC PP

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.15	-.457-01	.148-02	.328-05	-.249-03	.171-07	.104+00	-.285-03	-.162-01	-.168-02	.461-05	-.156-01
.20	-.471-01	.178-02	.410-05	-.237-03	.221-07	.722-01	-.248-03	-.173-01	-.129-02	.434-05	-.153-01
.30	-.480-01	.243-02	.592-05	-.362-03	.338-07	.187-00	-.339-03	-.729-02	-.220-02	.310-05	-.202-01
.40	-.462-01	.310-02	.790-05	-.434-03	.477-07	.134-00	-.236-03	-.124-01	-.185-02	.362-05	-.185-01
.50	-.425-01	.375-02	.100-04	-.503-03	.634-07	.111+00	-.270-03	-.135-01	-.160-02	.366-05	-.187-01
.70	-.311-01	.493-02	.143-04	-.626-03	.996-07	.957-01	-.266-03	-.143-01	-.143-02	.380-05	-.194-01
1.00	-.105-01	.631-02	.206-04	-.773-03	.162-06	.869-01	-.279-03	-.150-01	-.135-02	.414-05	-.205-01

TOTAL L - SHELL

.05	.795-02	.265-03	.119-05	-.424-04	.854-09	-.121-01	.544-04	-.763-04	.337-03	-.112-05	-.488-02
.10	.107-01	.531-03	.204-05	-.575-04	.293-08	.352-03	.322-04	-.132-02	.149-03	-.788-06	.251-05
.15	.116-01	.864-03	.304-05	-.796-04	.624-08	.123-01	.739-06	-.264-02	-.354-04	-.312-06	-.252-02
.20	.112-01	.124-02	.419-05	-.103-03	.107-07	.268-01	-.370-04	-.433-02	-.276-03	.291-06	-.810-02
.30	.996-02	.211-02	.669-05	-.174-03	.229-07	.469-01	-.847-04	-.656-02	-.609-03	.103-05	-.129-01
.40	.895-02	.300-02	.936-05	-.248-03	.385-07	.596-01	-.127-03	-.852-02	-.832-03	.170-05	-.151-01
.50	.923-02	.387-02	.121-04	-.321-03	.569-07	.675-01	-.159-03	-.100-01	-.983-03	.223-05	-.164-01
.70	.135-01	.544-02	.176-04	-.463-03	.100-06	.756-01	-.205-03	-.121-01	-.116-02	.302-05	-.181-01
1.00	.253-01	.728-02	.253-04	-.644-03	.176-06	.802-01	-.253-03	-.140-01	-.129-02	.390-05	-.198-01

TOTAL M - SHELL

.02	.704-02	.222-03	.108-05	-.461-04	.495-09	-.104-01	.434-04	-.117-04	.305-03	-.952-06	-.574-02
.05	.913-02	.346-03	.150-05	-.498-04	.132-08	-.704-02	.412-04	-.581-03	.261-03	-.933-06	-.303-02
.10	.114-01	.621-03	.240-05	-.640-04	.361-08	.583-02	.179-04	-.194-02	.578-04	-.574-06	-.135-02
.15	.124-01	.964-03	.345-05	-.850-04	.707-08	.185-01	-.107-04	-.325-02	-.146-03	-.130-06	-.489-02
.20	.125-01	.135-02	.463-05	-.111-03	.117-07	.297-01	-.387-04	-.451-02	-.329-03	.307-06	-.852-02
.30	.120-01	.221-02	.719-05	-.174-03	.240-07	.472-01	-.877-04	-.674-02	-.624-03	.108-05	-.127-01
.40	.117-01	.311-02	.994-05	-.244-03	.399-07	.590-01	-.127-03	-.857-02	-.033-03	.172-05	-.149-01
.50	.125-01	.400-02	.128-04	-.316-03	.508-07	.667-01	-.158-03	-.100-01	-.980-03	.223-05	-.162-01
.70	.171-01	.560-02	.184-04	-.455-03	.104-06	.752-01	-.204-03	-.121-01	-.116-02	.303-05	-.180-01
1.00	.289-01	.748-02	.264-04	-.636-03	.183-06	.801-01	-.253-03	-.139-01	-.130-02	.393-05	-.198-01

TABLE 4.2.05

Z=76

TOTAL SHELL DC PD

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2/1)	X2(E2/1)	X3(E2/1)	X4(E2/1)	X5(E2/1)	O1(E2)
K - SHELL											
.15	-.570-01	.246-02	.538-05	-.319-03	.276-07	.142-00	-.352-03	-.190-01	-.270-02	.668-05	-.185-01
.20	-.575-01	.291-02	.663-05	-.367-03	.355-07	.105-00	-.210-03	-.198-01	-.209-02	.614-05	-.185-01
.30	-.568-01	.383-02	.942-05	-.456-03	.535-07	-.109-00	-.183-02	-.385-01	.955-05	.950-05	-.466-07
.40	-.527-01	.466-02	.124-04	-.545-03	.748-07	.194-00	-.330-03	-.119-01	-.303-02	.410-05	-.223-01
.50	-.455-01	.579-02	.155-04	-.626-03	.931-07	.140-00	-.204-03	-.152-01	-.254-02	.462-05	-.222-01
.70	-.298-01	.742-02	.216-04	-.765-03	.150-06	.115-00	-.301-03	-.167-01	-.202-02	.496-05	-.220-01
1.00	-.281-02	.919-02	.301-04	-.923-03	.237-06	.103-00	-.317-03	-.176-01	-.189-02	.543-05	-.241-01

TOTAL L - SHELL

.05	.108-01	.391-03	.171-05	-.500-04	.113-08	-.176-01	.782-04	.177-03	.561-03	-.184-05	-.753-02
.10	.151-01	.747-03	.283-05	-.638-04	.383-08	-.190-02	.601-04	-.125-02	.356-03	-.154-05	-.475-05
.15	.177-01	.120-02	.416-05	-.347-04	.817-08	.800-02	.260-04	-.275-02	.891-04	-.936-06	-.669-05
.20	.193-01	.172-02	.570-05	-.112-03	.141-07	.264-01	-.105-04	-.476-02	-.263-03	-.868-07	-.730-02
.30	.207-01	.292-02	.918-05	-.181-03	.305-07	.500-01	-.719-04	-.741-02	-.751-03	.590-06	-.159-01
.40	.220-01	.417-02	.129-04	-.259-03	.522-07	.658-01	-.122-03	-.970-02	-.100-02	.185-05	-.170-01
.50	.241-01	.541-02	.168-04	-.341-03	.787-07	.760-01	-.152-03	-.116-01	-.129-02	.262-05	-.188-01
.70	.312-01	.767-02	.247-04	-.501-05	.140-06	.671-01	-.220-03	-.141-01	-.157-02	.378-05	-.210-01
1.00	.455-01	.102-01	.356-04	-.709-05	.247-06	.934-01	-.280-03	-.164-01	-.178-02	.300-05	-.232-01

TOTAL K - SHELL

.02	.973-02	.350-03	.165-05	-.568-04	.730-09	-.127-01	.569-04	-.785-04	.455-03	-.145-05	-.730-02
.05	.126-01	.519-03	.220-05	-.593-04	.185-08	-.940-02	.620-04	-.753-03	.408-03	-.157-05	-.485-02
.10	.153-01	.390-03	.339-05	-.722-04	.487-08	.299-02	.401-04	-.217-02	.179-03	-.113-05	-.170-02
.15	.190-01	.135-02	.479-05	-.919-04	.943-08	.174-01	.912-05	-.371-02	-.980-04	-.610-06	-.421-07
.20	.206-01	.180-02	.937-05	-.117-03	.156-07	.306-01	-.222-04	-.517-02	-.355-03	-.295-07	-.831-02
.30	.231-01	.206-02	.990-05	-.161-03	.322-07	.511-01	-.783-04	-.777-02	-.770-03	.102-05	-.139-01
.40	.252-01	.452-02	.138-04	-.255-03	.542-07	.655-01	-.125-03	-.991-02	-.107-02	.191-05	-.168-01
.50	.280-01	.557-02	.178-04	-.333-03	.666-07	.752-01	-.162-03	-.116-01	-.129-02	.264-05	-.166-01
.70	.352-01	.766-02	.258-04	-.480-05	.144-06	.863-01	-.219-03	-.141-01	-.157-02	.379-05	-.209-01
1.00	.506-01	.105-01	.370-04	-.695-05	.255-06	.921-01	-.280-03	-.164-01	-.179-02	.510-05	-.231-01

TABLE 4.2.06

						Z=80		TOTAL SHELL DC PP			
K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.20	-.693-01	.477-02	.107-04	-.468-03	.569-07	.124+00	-.357-03	-.228-01	-.283-02	.814-05	-.220-01
.30	-.659-01	.624-02	.150-04	-.579-03	.847-07	.721-01	-.333-03	-.271-01	-.219-02	.912-05	-.206-01
.40	-.583-01	.766-02	.194-04	-.681-03	.116-06	.641-00	-.378-03	.159-01	-.102-01	-.523-05	-.297-01
.50	-.484-01	.897-02	.238-04	-.774-03	.151-06	.189-00	-.330-03	-.158-01	-.359-02	.505-05	-.266-01
.70	-.247-01	.112-01	.324-04	-.926-03	.225-06	.140-00	-.332-03	-.191-01	-.287-02	.618-05	-.269-01
1.00	.101-01	.134-01	.437-04	-.109-02	.345-06	.122+00	-.354-03	-.204-01	-.264-02	.703-05	-.282-01
TOTAL L - SHELL											
.05	.146-01	.577-03	.244-05	-.587-04	.146-08	-.230-01	.104-03	.381-03	.866-03	-.283-05	-.106-01
.10	.208-01	.105-02	.388-05	-.706-04	.492-08	-.120-01	.981-04	-.108-02	.647-03	-.276-05	-.265-02
.15	.254-01	.165-02	.562-05	-.897-04	.104-07	.254-02	.645-04	-.272-02	.336-03	-.206-05	.680-03
.20	.294-01	.237-02	.764-05	-.115-03	.182-07	.240-01	.128-04	-.516-02	-.168-03	-.911-06	-.570-02
.30	.347-01	.398-02	.122-04	-.182-03	.399-07	.528-01	-.478-04	-.830-02	-.845-03	.380-06	-.145-01
.40	.386-01	.567-02	.174-04	-.263-03	.685-07	.717-01	-.107-03	-.111-01	-.132-02	.171-05	-.188-01
.50	.435-01	.740-02	.227-04	-.349-03	.104-06	.848-01	-.155-03	-.133-01	-.167-02	.281-05	-.213-01
.70	.548-01	.106-01	.336-04	-.524-03	.189-06	.994-01	-.227-03	-.164-01	-.209-02	.448-05	-.242-01
1.00	.735-01	.142-01	.488-04	-.757-03	.537-06	.108+00	-.301-03	-.191-01	-.242-02	.631-05	-.269-01
TOTAL M - SHELL											
.02	.133-01	.550-03	.250-05	-.695-04	.107-08	-.150-01	.731-04	-.236-03	.665-03	-.216-05	-.915-02
.05	.173-01	.782-03	.320-05	-.703-04	.257-08	-.143-01	.905-04	-.725-03	.679-03	-.261-05	-.719-02
.10	.227-01	.128-02	.474-05	-.812-04	.654-08	-.128-02	.720-04	-.235-02	.397-03	-.222-05	-.292-02
.15	.272-01	.189-02	.657-05	-.990-04	.125-07	.152-01	.390-04	-.418-02	.204-04	-.151-05	-.376-02
.20	.309-01	.260-02	.864-05	-.123-03	.205-07	.303-01	.456-05	-.590-02	-.333-03	-.753-06	-.777-02
.30	.371-01	.419-02	.133-04	-.184-03	.424-07	.549-01	-.594-04	-.893-02	-.924-03	.662-06	-.148-01
.40	.424-01	.590-02	.186-04	-.259-03	.717-07	.721-01	-.113-03	-.114-01	-.136-02	.187-05	-.187-01
.50	.480-01	.763-02	.241-04	-.340-03	.107-06	.843-01	-.158-03	-.135-01	-.168-02	.290-05	-.211-01
.70	.603-01	.108-01	.352-04	-.508-03	.194-06	.986-01	-.227-03	-.164-01	-.210-02	.453-05	-.241-01
1.00	.793-01	.145-01	.508-04	-.737-03	.348-06	.108+00	-.302-03	-.192-01	-.244-02	.639-05	-.268-01

TABLE 4.2.07

Z=84

TOTAL SHELL DC PP

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.20	-.827-01	.796-02	.175-04	-.597-03	.910-07	.159-00	-.414-03	-.265-01	-.421-02	.109-04	-.259-01
.30	-.742-01	.101-01	.239-04	-.729-03	.133-06	.115+00	-.394-03	-.290-01	-.339-02	.114-04	-.256-01
.40	-.618-01	.122-01	.305-04	-.847-03	.180-06	-.641-01	-.432-03	-.457-01	-.736-03	.191-04	-.158-01
.50	-.461-01	.140-01	.366-04	-.948-03	.230-06	.337-00	-.290-03	-.853-02	-.690-02	.425-06	-.330-01
.70	-.132-01	.168-01	.483-04	-.111-02	.333-06	.175-00	-.351-03	-.211-01	-.413-02	.696-05	-.317-01
1.00	.304-01	.194-01	.627-04	-.127-02	.493-06	.147-00	-.385-03	-.234-01	-.368-02	.859-03	-.329-01

TOTAL L - SHELL

.05	.196-01	.860-03	.346-05	-.686-04	.190-08	-.275-01	.129-03	.406-03	.126-02	-.411-05	-.140-01
.10	.279-01	.149-02	.530-05	-.782-04	.631-08	-.186-01	.148-03	-.110-02	.107-02	-.471-05	-.625-02
.15	.347-01	.228-02	.751-05	-.948-04	.133-07	-.160-02	.104-03	-.310-02	.637-03	-.361-05	-.998-03
.20	.414-01	.324-02	.101-04	-.117-03	.232-07	.187-01	.618-04	-.540-02	.828-04	-.253-05	-.359-02
.30	.515-01	.537-02	.160-04	-.180-03	.510-07	.535-01	-.544-05	-.918-02	-.884-03	-.859-06	-.142-01
.40	.603-01	.769-02	.227-04	-.259-03	.889-07	.781-01	-.773-04	-.125-01	-.161-02	.102-05	-.205-01
.50	.688-01	.100-01	.299-04	-.346-03	.136-06	.949-01	-.136-03	-.152-01	-.213-02	.259-05	-.240-01
.70	.859-01	.144-01	.447-04	-.530-03	.250-06	.114+00	-.224-03	-.189-01	-.279-02	.498-05	-.278-01
1.00	.110+00	.193-01	.654-04	-.784-03	.453-06	.126-00	-.317-03	-.223-01	-.330-02	.761-05	-.312-01

TOTAL M - SHELL

.02	.185-01	.866-03	.371-05	-.835-04	.155-08	-.167-01	.910-04	-.637-03	.936-03	-.313-05	-.113-01
.05	.236-01	.118-02	.460-05	-.826-04	.355-08	-.207-01	.128-03	-.619-03	.110-02	-.421-05	-.101-01
.10	.308-01	.184-02	.658-05	-.911-04	.869-08	-.120-01	.119-03	-.195-02	.906-03	-.403-05	-.489-02
.15	.375-01	.264-02	.889-05	-.106-03	.162-07	.112-01	.701-04	-.479-02	.261-03	-.273-05	-.405-02
.20	.434-01	.357-02	.116-04	-.127-03	.264-07	.281-01	.329-04	-.600-02	-.212-03	-.178-05	-.703-02
.30	.541-01	.569-02	.176-04	-.184-03	.547-07	.578-01	-.253-04	-.101-01	-.105-02	-.315-06	-.152-01
.40	.638-01	.798-02	.244-04	-.255-03	.927-07	.792-01	-.883-04	-.131-01	-.169-02	.135-05	-.205-01
.50	.733-01	.103-01	.317-04	-.335-03	.140-06	.946-01	-.142-03	-.155-01	-.217-02	.278-05	-.238-01
.70	.915-01	.146-01	.466-04	-.508-03	.255-06	.113+00	-.225-03	-.190-01	-.280-02	.507-05	-.276-01
1.00	.116+00	.197-01	.677-04	-.754-03	.462-06	.126-00	-.317-03	-.223-01	-.333-02	.770-05	-.311-01

TABLE 4.2.08

						Z=08					TOTAL SHELL DC PP
K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.30	-.794-01	.167-01	.391-04	-.933-03	.218-06	.129-00	-.459-03	-.328-01	-.429-02	.150-04	-.307-01
.40	-.598-01	.197-01	.491-04	-.107-02	.289-06	.863-01	-.485-03	-.380-01	-.368-02	.182-04	-.294-01
.50	-.365-01	.221-01	.578-04	-.118-02	.362-06	-.366-00	-.870-03	-.756-01	.562-02	.481-04	-.117-00
.70	.806-02	.256-01	.734-04	-.133-02	.508-06	.237-00	-.337-03	-.216-01	-.632-02	.557-05	-.379-01
1.00	.612-01	.263-01	.917-04	-.148-02	.724-06	.180-00	-.411-03	-.265-01	-.524-02	.992-05	-.387-01
TOTAL L - SHELL											
.05	.265-01	.130-02	.501-05	-.815-04	.251-08	-.278-01	.149-03	-.282-03	.156-02	-.558-05	-.179-01
.10	.375-01	.216-02	.736-05	-.881-04	.832-08	-.316-01	.221-03	-.552-03	.190-02	-.805-05	-.109-01
.15	.469-01	.320-02	.102-04	-.102-03	.174-07	-.202-01	.204-03	-.186-02	.161-02	-.769-05	-.237-02
.20	.566-01	.446-02	.135-04	-.120-03	.302-07	.104-01	.136-03	-.554-02	.600-03	-.556-05	-.227-02
.30	.721-01	.730-02	.212-04	-.178-03	.664-07	.520-01	.627-04	-.100-01	-.786-03	-.346-05	-.129-01
.40	.860-01	.104-01	.300-04	-.252-03	.116-06	.828-01	-.229-04	-.141-01	-.186-02	-.844-06	-.215-01
.50	.992-01	.135-01	.396-04	-.338-03	.179-06	.104-00	-.944-04	-.172-01	-.265-02	.137-05	-.265-01
.70	.124-00	.194-01	.595-04	-.524-03	.333-06	.130-00	-.204-03	-.218-01	-.368-02	.484-05	-.318-01
1.00	.154-00	.262-01	.878-04	-.796-03	.611-06	.147-00	-.321-03	-.259-01	-.449-02	.864-05	-.361-01
TOTAL M - SHELL											
.02	.252-01	.137-02	.563-05	-.102-03	.231-08	-.169-01	.111-03	-.150-02	.127-02	-.445-05	-.140-01
.05	.320-01	.180-02	.676-05	-.991-04	.508-08	-.305-01	.185-03	-.275-03	.183-02	-.700-05	-.138-01
.10	.417-01	.270-02	.930-05	-.104-03	.120-07	-.126-01	.179-03	-.294-02	.127-02	-.687-05	-.673-02
.15	.509-01	.378-02	.123-04	-.116-03	.220-07	.473-02	.133-03	-.517-02	.729-03	-.547-05	-.559-02
.20	.594-01	.501-02	.158-04	-.134-03	.354-07	.241-01	.938-04	-.752-02	.807-04	-.429-05	-.673-02
.30	.752-01	.780-02	.236-04	-.184-03	.724-07	.595-01	.303-04	-.115-01	-.111-02	-.243-05	-.152-01
.40	.899-01	.108-01	.325-04	-.251-03	.122-06	.857-01	-.431-04	-.150-01	-.204-02	-.162-06	-.229-01
.50	.104-00	.139-01	.421-04	-.328-03	.185-06	.105-00	-.107-03	-.179-01	-.275-02	.184-05	-.265-01
.70	.129-00	.197-01	.621-04	-.500-03	.340-06	.129-00	-.208-03	-.221-01	-.371-02	.506-05	-.316-01
1.00	.161-00	.266-01	.908-04	-.759-03	.622-06	.146-00	-.322-03	-.260-01	-.452-02	.879-05	-.359-01

TABLE 4.2.09

Z=92

TOTAL SHELL DC PP

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.30	-.768-01	.278-01	.632-04	-.117-02	.345-06	.165-00	-.518-03	-.376-01	-.624-02	.195-04	-.362-01
.40	-.462-01	.316-01	.773-04	-.131-02	.447-06	.135-00	-.541-03	-.407-01	-.566-02	.219-04	-.360-01
.50	-.131-01	.346-01	.887-04	-.141-02	.547-06	.425-01	-.658-03	-.478-01	-.327-02	.301-04	-.333-01
.70	.443-01	.384-01	.108-03	-.155-02	.740-06	.414-00	-.865-04	-.104-01	-.117-01	-.122-04	-.470-01
1.00	.106+00	.406-01	.130-03	-.166-02	.101-05	.227-00	-.394-03	-.286-01	-.750-02	.682-05	-.453-01
TOTAL L - SHELL											
.05	.356-01	.196-02	.704-05	-.946-04	.317-08	-.172-01	.135-03	-.268-02	.173-02	-.609-05	-.216-01
.10	.494-01	.310-02	.993-05	-.976-04	.105-07	-.489-01	.315-03	.384-03	.322-02	-.131-04	-.167-01
.15	.619-01	.448-02	.135-04	-.107-03	.219-07	-.260-01	.304-03	-.246-02	.239-02	-.129-04	-.847-02
.20	.737-01	.605-02	.175-04	-.123-03	.375-07	-.421-02	.247-03	-.509-02	.160-02	-.109-04	-.303-02
.30	.967-01	.977-02	.271-04	-.169-03	.828-07	.458-01	.171-03	-.105-01	-.352-03	-.847-05	-.100-01
.40	.116+00	.137-01	.380-04	-.234-03	.145-06	.844-01	.709-04	-.154-01	-.194-02	-.495-05	-.212-01
.50	.155-00	.178-01	.501-04	-.313-03	.223-06	.112+00	-.138-04	-.192-01	-.312-02	-.193-05	-.282-01
.70	.167-00	.255-01	.755-04	-.490-03	.413-06	.145-00	-.149-03	-.247-01	-.468-02	.299-05	-.357-01
1.00	.205-00	.345-01	.112-03	-.763-03	.778-06	.169-00	-.292-03	-.297-01	-.595-02	.830-05	-.413-01
TOTAL M - SHELL											
.02	.347-01	.216-02	.822-05	-.121-03	.331-08	-.143-01	.126-03	-.306-02	.160-02	-.593-05	-.170-01
.05	.436-01	.275-02	.959-05	-.115-03	.705-08	-.398-01	.249-03	-.210-03	.280-02	-.108-04	-.181-01
.10	.558-01	.394-02	.127-04	-.116-03	.160-07	-.247-01	.267-03	-.279-02	.227-02	-.116-04	-.132-01
.15	.677-01	.535-02	.165-04	-.123-03	.287-07	-.575-02	.224-03	-.529-02	.158-02	-.101-04	-.877-02
.20	.805-01	.702-02	.207-04	-.135-03	.460-07	.165-01	.186-03	-.801-02	.715-03	-.883-05	-.758-02
.30	.102+00	.106-01	.305-04	-.177-03	.924-07	.585-01	.120-03	-.128-01	-.961-03	-.658-05	-.145-01
.40	.122+00	.145-01	.415-04	-.234-03	.155-06	.905-01	.358-04	-.170-01	-.230-02	-.359-05	-.228-01
.50	.141-00	.185-01	.535-04	-.303-03	.233-06	.115+00	-.389-04	-.203-01	-.334-02	-.892-06	-.287-01
.70	.174-00	.260-01	.790-04	-.464-03	.429-06	.145-00	-.159-03	-.253-01	-.476-02	.349-05	-.355-01
1.00	.213-00	.350-01	.116-03	-.720-03	.794-06	.168-00	-.296-03	-.300-01	-.601-02	.859-05	-.411-01

TABLE 4.2.10

Z=96

TOTAL SHELL DC PP

K	P1(E2)	P2(E2)	P3(E2)	P4(E2)	P5(E2)	X1(E2M1)	X2(E2M1)	X3(E2M1)	X4(E2M1)	X5(E2M1)	Q1(M1)
K - SHELL											
.30	-.584-01	.462-01	.103-03	-.145-02	.548-06	.206-00	-.575-03	-.434-01	-.894-02	.249-04	-.425-01
.40	-.107-01	.502-01	.119-03	-.158-02	.686-06	.152-00	-.627-03	-.458-01	-.708-02	.286-04	-.427-01
.50	.298-01	.538-01	.136-03	-.167-02	.824-06	.129-00	-.676-03	-.502-01	-.685-02	.333-04	-.423-01
.70	.987-01	.572-01	.161-03	-.177-02	.108-05	-.116+00	-.124-02	-.913-01	-.290-02	.844-04	-.357-01
1.00	.166-00	.581-01	.185-03	-.124-02	.142-05	.261-00	-.411-03	-.305-01	-.957-02	.809-05	-.538-01
TOTAL L - SHELL											
.10	.744-01	.455-02	.562-05	-.313-04	.142-07	-.720-01	.484-03	.234-02	.557-02	-.222-04	-.238-01
.15	.908-01	.639-02	.880-05	-.343-04	.294-07	-.442-01	.486-03	-.142-02	.436-02	-.227-04	-.153-01
.20	.106+00	.849-02	.128-04	-.443-04	.500-07	-.119-01	.463-03	-.315-02	.289-02	-.220-04	-.865-02
.30	.135-00	.132-01	.231-04	-.822-04	.109-06	.348-01	.315-03	-.111-01	.763-03	-.160-04	-.645-02
.40	.161-00	.184-01	.359-04	-.142-03	.190-06	.823-01	.194-03	-.171-01	-.158-02	-.111-04	-.188-01
.50	.185-00	.238-01	.507-04	-.217-03	.294-06	.121+00	.146-03	-.210-01	-.350-02	-.965-05	-.290-01
.70	.226-00	.338-01	.833-04	-.397-03	.554-06	.166-00	-.296-04	-.278-01	-.600-02	-.245-05	-.399-01
1.00	.273-00	.459-01	.134-03	-.688-03	.104-05	.199-00	-.220-03	-.341-01	-.803-02	.550-05	-.474-01
TOTAL M - SHELL											
.02	.479-01	.340-02	.120-04	-.142-03	.481-08	-.651-02	.134-03	-.587-02	.182-02	-.744-05	-.206-01
.05	.584-01	.419-02	.137-04	-.135-03	.982-08	-.511-01	.331-03	-.206-03	.423-02	-.166-04	-.233-01
.10	.745-01	.581-02	.175-04	-.130-03	.216-07	-.416-01	.392-03	-.231-02	.393-02	-.195-04	-.190-01
.15	.893-01	.766-02	.221-04	-.132-03	.380-07	-.680-02	.343-03	-.700-02	.230-02	-.174-04	-.146-01
.20	.106+00	.984-02	.273-04	-.137-03	.600-07	.257-02	.329-03	-.804-02	.198-02	-.171-04	-.104-01
.30	.133-00	.144-01	.394-04	-.169-03	.118-06	.529-01	.257-03	-.140-01	-.405-03	-.144-04	-.139-01
.40	.159-00	.194-01	.531-04	-.215-03	.197-06	.921-01	.163-03	-.189-01	-.233-02	-.105-04	-.227-01
.50	.183-00	.244-01	.680-04	-.273-03	.294-06	.122+00	.769-04	-.229-01	-.387-02	-.696-05	-.302-01
.70	.223-00	.340-01	.997-04	-.416-03	.541-06	.162-00	-.653-04	-.288-01	-.602-02	-.104-05	-.395-01
1.00	.274-00	.457-01	.147-03	-.659-03	.101-05	.194-00	-.231-03	-.344-01	-.795-02	.592-05	-.467-01