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Bibliography
on Neutral Particle Transport Theory

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BIBLIOGRAPHY ON NEUTRAL PARTICLE TRANSPORT THEORY

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ABSTRACT

This report contains 1849 references to the technical literature on neutral particle (mostly neutron) transport theory. Two listings are included: one by author and one by subject.

INTRODUCTION

The contents of this report began as a card file for our own use. As the number of entries grew so did the difficulty of maintaining both an author and a subject index, so that the card file was abandoned in favor of a magnetic tape on the Los Alamos Maniac-II computer. A program has been written that takes a new entry and generates a new tape with the entry in its proper position in both the author and subject indexes; this information can then be printed out. This report is a photographic copy of the computer output.

Our choice of subjects for the subject index was dictated by our own interests, and thus is probably not optimum for a general audience. Generally speaking, we have chosen categories of methods, rather than of quantities being calculated.

Every entry has been examined by at least one of us (WLH or KDL) and assigned to categories on the basis of its content, rather than its title. This process was often done hurriedly, and mistakes have undoubtedly been made.

The bibliography is not complete. It is especially weak in the area of radiation transport, Russian literature, and reports published since the mid-1960's. Future editions of the bibliography are planned, and users of this report can be of great help by sending reprints of journal articles or

copies of reports on neutral particle transport to us. Send subjects in Chapters 1 to 7, 17 to 20, and 22 to W. L. Hendry, and subjects in Chapters 8 to 16, 21, and 23 to K. D. Lathrop at the Los Alamos Scientific Laboratory, University of California, Group T-1, P. O. Box 1663, Los Alamos, New Mexico 87544. Please do not send preprints. Articles in the Transactions of the American Nuclear Society are also not desired; they have been excluded from this bibliography because almost all significant contributions have been published elsewhere.

Another bibliography on neutron transport theory has been compiled by Teodor Rosescu; it contains items not included in ours and comes in two volumes: "Neutron Transport Theory Bibliography," F. R. 48, Institute of Atomic Physics of Romania (1965) and "Neutron Transport Theory. II Bibliography and Subject Index," F. R. 51, Institute of Atomic Physics of Romania (1966).

FORMAT OF THE BIBLIOGRAPHY

The format of the author and subject listings is the same.

The first line of an entry identifies the authors, last name first, with successive author's names separated by colons. The names appear as in the original paper, except for the last-name-first

convention, the exclusive use of capitals, and the omission of all accents and other symbols (most of which are not possessed by the computer printer).

The second line contains the title of the entry, and is underlined if the entry is a book.

The third line is the location of the entry followed by a list of chapter numbers of the subject listing in which the entry has also been filed. The location takes one of the following forms:

1. Journal Article: name of journal, volume, page, year of publication.
2. Report: report number, name of issuing organi-

zation, year of publication.

3. Book: edition of book, publisher, place of publication, year of publication.

4. Chapter in a book: first the word "in" then the title of the book, underlined, editor, edition, first page number of chapter, publisher, place of publication, year of publication.

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Chap. 6 EXACT SOLUTIONS FOR FINITE SLAB AND MULTILAYER PROBLEMS

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Chap. 6 THE METHOD OF INVARIANT IMBEDDING; CHANDRASEKHAR'S METHOD

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CHAP. 9 THE METHOD OF DISCRETE ORDINATES

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Chap. 17 VARIATIONAL METHODS

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Chap. 18 PERTURBATION METHODS

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