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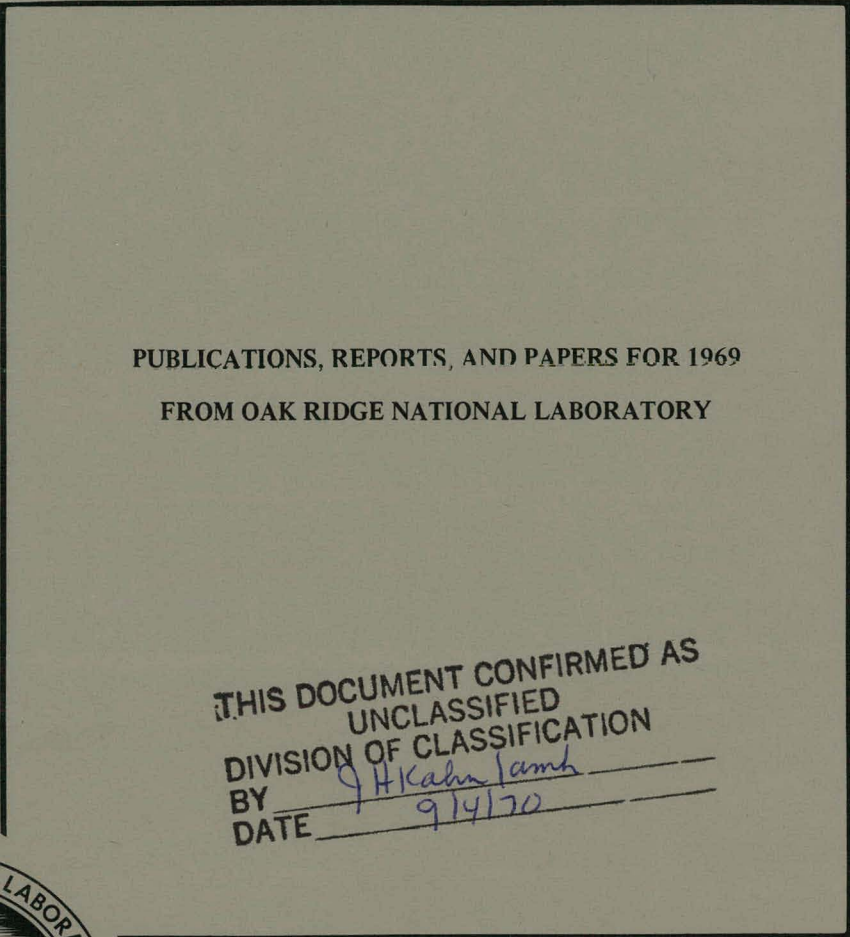
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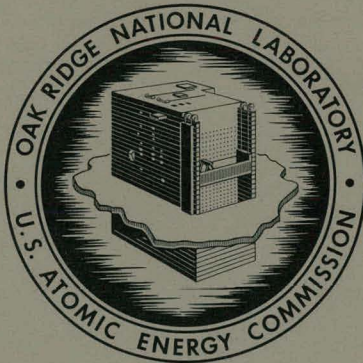
Volume 9

UC-2 - General, Miscellaneous, and Progress Reports



PUBLICATIONS, REPORTS, AND PAPERS FOR 1969  
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## PREFACE

This report is a bibliographic reference to technical information developed at the Oak Ridge National Laboratory during 1969. About half the entries listed have appeared in technical journals or technical reports. Papers presented at professional society meetings are listed so that those interested in certain areas of research can contact authors working in similar fields if they wish. Books, portions of books, and theses prepared by members of the Laboratory staff are listed also.

Reprints of most of the articles appearing in technical journals are available from the authors, and copies of the reports can be purchased from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151. Although reprints of sections of some books are available, in general, books must be purchased from dealers or the publishers. Copies of a thesis must be obtained from the university or from the author. When a thesis has been published as a Laboratory report, it is also included in the report listing.

A secondary contribution of this report is that it summarizes publications productivity at the Oak Ridge National Laboratory according to the divisions of the Laboratory.

The editors, F. M. O'Hara, Jr., and Ann S. Klein, wish to acknowledge the contributions of Margaret Passiakos, Central Research Library; Margaret Herring, Laboratory Records; and Joe L. Rich, Technical Publications; many others at the Laboratory also aided by checking their division's entries for accuracy.



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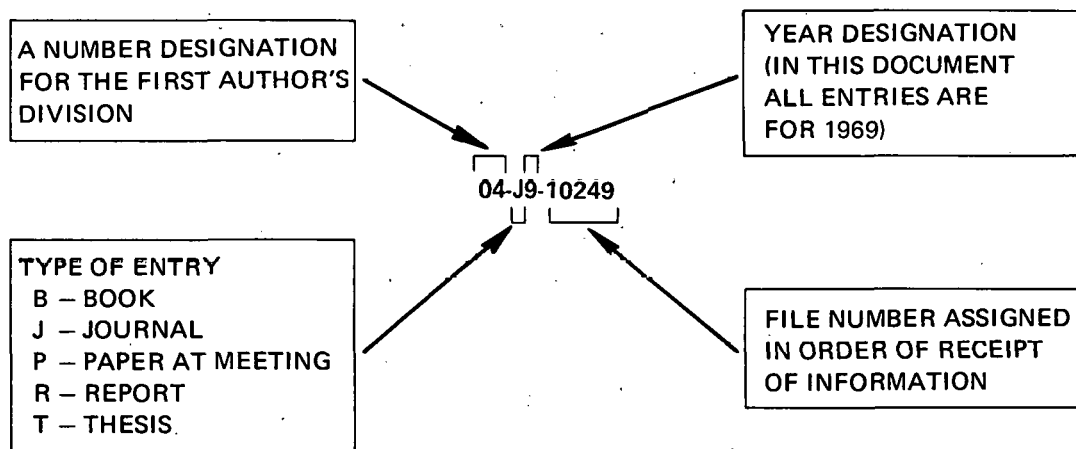
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## INTRODUCTION

This document lists the titles of written and oral scientific information originating at the Oak Ridge National Laboratory during 1969. It is the ninth document (vol. 9) bearing the number ORNL-3300; this number will be continued for the corresponding publication in future years.

### MAIN LISTING

This section lists references for information originating at the Laboratory. Each of the division lists is divided into five categories: books, journal articles, papers at professional meetings, reports, and theses. To the left of each entry is a code number used for indexing. An explanation of this code number will aid in the use of the indexes described later:



**Division Number.** — This number shows the author's division. A list of the division names for these numbers is given in the Table of Contents. Papers and presentations with multiple authors have been listed according to the regular division of the first author. An employee may actually have been on loan to some other division at the time the work was done. In the case of material presented by members of the administrative staff of the Laboratory, the entries have been made, for the most part, under the division in which the subject matter is most applicable.

**Coauthors.** — Since coauthors are sometimes from a Laboratory division different from that of the first author, a number(s) has been added indicating the regular division(s) of coauthors. This number (the same division designations as given for the first authors) is printed following the names of the authors. Also under each division is a coauthor listing which gives the complete code number to locate entries for which the division supplied a coauthor. The coauthor listing under Director's Division (05) also includes material by individual administrative staff members which was entered elsewhere on the basis of subject matter.

**Type of Entry.** — A mnemonic designation has been used to indicate the type of entry. This should be particularly useful when consulting the Key Word or Author Indexes. The designation B (book) is straightforward — ordinary books as available from publishers or dealers. The J (journal) entries cover information published in periodicals and serials. Proceedings of meetings and special supplements are included under journals, *if* they were



issued under the name of the journal, with volume and issue numbers. The listing P (papers at professional meetings) covers only unclassified scientific meetings, regional or larger, which are open to the public. Papers presented by staff members under the ORNL Traveling Lecture Program, at universities, civic clubs, or local section meetings of professional societies are *not* included. Reports (R) include documents issued by the Laboratory or a governmental agency that are available to the public. Except where noted, all reports can be obtained from CFSTI for \$3.00 for a hard copy or \$0.65 for a micronegative copy. See page viii for details. The T (theses) list covers theses or dissertations written at the Oak Ridge National Laboratory in cooperation with a university as partial fulfillment of the requirements for an advanced degree granted by the university. This is part of the Laboratory's Educational Assistance Program.

**Year.** — Since it is intended to continue the numbering system used in this document in future years, the last digit of the calendar year is included in the code number.

**File Number.** — These are simply file numbers, assigned one to each entry, needed to permit indexing and to aid in requesting reprints of specific articles.

**Abbreviations Used.** — In order to conserve space, the names of journals and of professional meetings have been abbreviated according to the listing in *Chemical Abstracts, List of Periodicals*. The names of journals and meetings not abstracted by *Chemical Abstracts* have been abbreviated with the aid of the "Journal Title Word Abbreviations" appearing at the front of the *List of Periodicals*.

The names of book publishers and sales agencies have been shortened as is done in *Chemical Abstracts*.

The names of states have been omitted for the largest cities in the United States, and the names of countries have been omitted for some major foreign cities.

#### MICROREPRODUCTION

In order to reduce reproduction, distribution, and storage costs, the Key Word and Author Indices have for the first time with this volume been supplied in microcopy. These microfiche are enclosed in an envelope inside the back cover and are suitable for use in all standard microfiche readers or reader printers.

#### KEY WORD INDEX

After the main listing is a Key Word Index in which the key words from each title in the main list have been arranged alphabetically down the center of the page. Thus each title will appear in the index as many times as there are key words in the title. To the right of each of these lines is the code number for locating the complete listing in the first section of this document. (Here the code number will identify the entry to the user as a book, journal article, paper at meeting, report, or thesis.)

Some of the limitations in such a title word index prepared by a computer must be noted:

When the length of a title is such that it cannot be given on one line, part or parts of the title are deleted. If more of the title is needed to identify the research, it will be necessary to use the code number and inspect the complete title listed in the first section.

Numerical entries contained in the title appear after the alphabetical sequence.

A Roman number following an element indicates the valence. Isotope mass numbers are indicated by a hyphen and an Arabic number following the element, as in URANIUM-238. To provide some additional useful entries, many words are divided into shorter words; for example, dimethylether is divided into di, methyl, and ether. The computer has no lower-case type; therefore, Greek letters, chemical symbols, formulas, elements, and compounds are written out in full.

#### NOTICE

In converting the computer program that produces the KWIC index for use on newer data-processing equipment, changes were made that induced a one-character truncation of the permuted titles. In every case, only one letter has been deleted, and this is the far-right letter of the permuted title. Refinement of the program will remedy this problem in the future.

#### AUTHOR INDEX

The Author Index, the third part of this document, provides an alphabetical listing of all authors whose names appear in the main listing. By each name is the code number for locating the complete listing in the first section. No distinction is made for entries with multiple authors — each author is listed separately and the code number given.

All of the authors listed are not necessarily at the Oak Ridge National Laboratory; however, the work listed was done at the Laboratory or in cooperation with a member of the Laboratory staff. Editors of books as listed are members of the Laboratory staff.

## REQUESTS FOR REPRINTS

Subject to supply, reprints are available free of charge for many of the journal articles and a few of the sections of books. If reprints are available from the Laboratory, the word REPRINT appears at the end of the entry. NO REPRINT, of course, means that none are available.

Requests for reprints of articles listed under all divisions except the Biology Division and the Molecular Anatomy Program should be addressed to:

*Name of author*  
Oak Ridge National Laboratory  
P.O. Box X  
Oak Ridge, Tennessee 37830, U.S.A.

Requests for reprints of articles listed under Biology should be addressed to:

Biology Division  
Oak Ridge National Laboratory  
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Requests for reprints of articles listed under Molecular Anatomy Program should be addressed to:

Molecular Anatomy Program  
Oak Ridge National Laboratory  
P.O. Box P  
Oak Ridge, Tennessee 37830, U.S.A.

For information regarding papers presented at professional meetings, the author should be contacted.

Documents listed as reports are available for use at the Atomic Energy Commission Depository Libraries, or copies may be purchased for \$3.00 for a hard copy or \$0.65 for a micronegative from:

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The document number (ORNL-, TID-, etc.) must be used for orders to the Clearinghouse for Federal Scientific and Technical Information. They do not use the indexing code numbers assigned to the documents listed here.

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## Analytical Chemistry Division (01)

- 01-89-14810 SPECTROPHOTOMETRIC STUDIES OF SOLUTE SPECIES IN MOLTEN FLUORIDE MEDIA  
YOUNG, J. P.  
PP 189-208, MOLTEN SALTS (ED. BY G. MAMANTOV), MARCEL DEKKER,  
NEW YORK, 1969 REPRINT
- 01-89-14813 VOLTAMMETRIC STUDIES OF CHROMIUM(III) IN MOLTEN LITHIUM FLUORIDE - BERYLLIUM FLUORIDE - ZIRCONIUM  
FLUORIDE AT 500C  
MANNING, D. L. + DALE, J. M.  
PP 563-73, MOLTEN SALTS (ED. BY G. MAMANTOV), MARCEL DEKKER,  
NEW YORK, 1969 REPRINT
- 01-J9-1525 METEORITE FALL AT PUEBLITO-DE-ALLENDE, CHIHUAHUA, MEXICO - PRELIMINARY INFORMATION  
KING, E. A., JR. + SCHONFELD, K. A.  
RICHARDSON, K. A. + ELDRIDGE, J. S.  
SCIENCE 163, 928-29 (1969) REPRINT
- 01-J9-14084 POLAROGRAPHY OF SULFUR DIOXIDE ( SULFITE ) IN AQUEOUS HYDROFLUORIC ACID  
RAAFN, H. P.  
ANAL. CHIM. ACTA 44, 205-10 (1969) REPRINT
- 01-J9-14110 VERTICAL ORIFICE DROPPING MERCURY ELECTRODE OF POLY TETRA FLUORO ETHYLENE FOR RAPID POLAROGRAPHY IN  
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RAAFN, H. P.  
CHEM. INSTR. 1, 287-97 (1969) REPRINT
- 01-J9-14197 DECAY OF PALLADIUM-103 - RHODIUM-103M  
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- 01-J9-14268 FLUORESCENCE AND PHOSPHORESCENCE RESPONSE OF STEROIDS TO SULFURIC ACID IN THIN LAYER CHROMATOGRAPHY AT  
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J. CHROMATOG. 39, 515-18 (1969) REPRINT
- 01-J9-14270 MASS SPECTROMETRY OF NANOGRAM SIZE SAMPLES OF LEAD  
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ANAL. CHEM. 41, 525-26 (1969) REPRINT
- 01-J9-14280 RADIATION AND CHEMICAL STABILITY OF SPRAY ADDITIVES  
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TRANS. AM. NUCL. SOC. 12, 166-67 (1969) NO REPRINT
- 01-J9-14336 CHARACTERIZATION OF NUCLEOTIDES AND NUCLEOSIDES BY PYROLYSIS - GAS CHROMATOGRAPHY  
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ANAL. BIOCHEM. 28, 288-94 (1969) REPRINT
- 01-J9-14340 CONTROLLED POTENTIAL COULOMETRIC DETERMINATION OF AMERICIUM  
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ANAL. CHIM. ACTA 45, 417-24 (1969) REPRINT
- 01-J9-14341 ABSORPTION SPECTRA OF SEVERAL 3D TRANSITION METAL IONS IN MOLTEN FLUORIDE SOLUTION  
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INORG. CHEM. J. 8, 825-27 (1969) REPRINT
- 01-J9-14343 DETERMINATION OF PLUTONIUM BY CONTROLLED CURRENT COULOMETRY  
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ANAL. CHIM. ACTA. 45, 528-32 (1969) REPRINT
- 01-J9-14344 APPARATUS FOR PRECISION CONTROL OF THE DPOD TIME OF THE DROPPING MERCURY ELECTRODE IN POLAROGRAPHY  
BELEW, W. L. + FISHER, D. J. + JONES, H. C.  
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- 01-J9-14362 A SOLID STATE CONTROLLED POTENTIAL DC POLAROGRAPH WITH CYCLIC SCANNING AND CALIBRATED FIRST AND SECOND DERIVATIVE SCALES  
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- 01-J9-14461 AN OPTICAL DENSITY THERMOMETER  
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- 01-J9-14464 QUANTITATIVE ELECTRODEPOSITION OF ACTINIDES FROM DI METHYL SULFOXIDE  
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- 01-J9-14465 INFLUENCE OF CHANNELING IN CONVENTIONAL HELIUM-3 ACTIVATION ANALYSIS  
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- 01-J9-14471 MEASUREMENT OF BETA EMITTING NUCLIDES USING CERENKOV RADIATION  
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- 01-J9-14475 RADIOTRACER EVALUATION OF A LUNAR SURFACE SAMPLER  
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RADIOCHEM. RADIOANAL. LETTERS 1, 111-16 (1969) REPRINT
- 01-J9-14476 NONDESTRUCTIVE NEUTRON ACTIVATION ANALYSIS OF THE ALLENDE METEORITE  
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- 01-J9-14563 NEW LIQUID-LIQUID EXTRACTION METHOD FOR THE SEPARATION OF CERIUM(IV) FROM BERKELIUM(IV) AND OTHER ELEMENTS  
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ANAL. CHEM. 41, 1658-61 (1969) REPRINT
- 01-J9-14603 GAS CHROMATOGRAPHY OF SILYLATED PHENYLTHIOHYDANTOIN AMINO ACIDS  
GUERIN, M. R. + SHULTS, W. D.  
J. CHROMATOG. SCI. 7, 701-03 (1969) REPRINT
- 01-J9-14609 A SILICON SPECIFIC DETECTOR BASED ON INTERFACING A GAS CHROMATOGRAPH AND A FLAME EMISSION OR ATOMIC ABSORPTION SPECTROMETER  
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GUERIN, M. R.  
J. CHROMATOG. SCI. 7, 572-75 (1969) REPRINT
- 01-J9-14610 ISOTOPIC COMPARISON OF LEAD IN TEKTITES WITH LEAD IN EARTH MATERIALS  
WAMPLER, J. M. + SMITH, D. H. + CAMERON, A. E.  
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- 01-J9-14619 RECENT ADVANCES IN ANALYTICAL EMISSION SPECTROMETRY  
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- 01-J9-14620 SPECTRAL EVIDENCE FOR THE EXISTENCE OF THE SUPEROXIDE ION IN MOLTEN LITHIUM FLUORIDE - SODIUM FLUORIDE - POTASSIUM FLUORIDE  
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- 01-J9-14622 ISOTOPIC MASS SPECTROMETRY OF THE ACTINIDES  
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- 01-J9-14657 NUCLEAR MICROPROBE METHOD ( PROMPT NUCLEAR REACTION ANALYSIS )  
RICCI, E.  
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- 01-J9-14658 PROTON REACTION ANALYSIS FOR CARBON-12, CARBON-13, AND NITROGEN-15 - SENSITIVITY AND BIOMEDICAL APPLICATION  
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- 01-J9-14709 A CONTROLLED POTENTIAL AND CONTROLLED CURRENT CYCLIC VOLTAMMETER  
MUELLER, T. R. + JONES, H. C.  
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- 01-J9-14710 A METHOD FOR THE DESIGN OF INSTRUMENT SYSTEMS FOR MEASUREMENTS OF HIGHEST SENSITIVITY  
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- 01-J9-14711 THE USE OF ENSEMBLE AVERAGING TO INCREASE THE SENSITIVITY OF MEASUREMENTS WITH FLAME PHOTOMETERS  
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- 01-J9-14716 FIRST IONIZATION POTENTIALS OF THORIUM, NEPTUNIUM, AND PLUTONIUM BY SURFACE IONIZATION  
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- 01-J9-14869 RAPID POLAROGRAPHY OF URANIUM IN 1 MOLAR HYDROFLUORIC ACID WITH A VERTICAL ORIFICE POLY TETRA FLUORO ETHYLENE DROPPING MERCURY ELECTRODE  
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- 01-J9-14894 INTERPRETATION OF THE POLAROGRAPHIC BEHAVIOR OF METAL - SOLOCHROME VIOLET RS COMPLEXES  
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- 01-J9-14895 PRELIMINARY EXAMINATION OF LUNAR SAMPLES FROM APOLLO-11  
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- 01-P9-209 INDUSTRIAL APPLICATION OF 14-MEV NEUTRON GENERATORS  
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AM. NUCL. SOC., NEW YORK CHAP., NEW YORK, APR. 8-9, 1969
- 01-P9-210 THE MEASUREMENT OF CARBON-14 USING CERENKOV RADIATION  
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INTERN. SYMP. LIQUID SCINTILLATION COUNTING, CAMBRIDGE, MASS.,  
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- 01-P9-211 A REVIEW OF RECENT ACHIEVEMENTS IN ANALYTICAL EMISSION SPECTROSCOPY  
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MID-AM. SYMP. SPECTRY., CHICAGO, MAY 12-15, 1969
- 01-P9-212 THE DESIGN OF MEASURING CIRCUITS FOR A DC POLAROGRAPH  
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- 01-P9-214 ACTIVATION ANALYSIS USING HIGH RESOLUTION DETECTORS  
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- 02-P9-237 ACTION OF CARCINOGENS ON NUCLEIC ACIDS  
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- 02-P9-238 THE SEPARATION OF ISOACCEPTING TRANSFER RNAS AND THE POSSIBLE ROLE OF TRANSFER RNA IN REGULATION  
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- 02-P9-239 PLOIDY COMPOSITION OF MEGAKARYOCYTE STAGES  
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- 02-P9-240 EFFECT OF WHOLE BODY RADIATION ON MEGAKARYOCYTOPDIESIS IN MICE  
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- 02-P9-241 FREEZING AND THAWING OF NUCLEATED MAMMALIAN CELLS - INTERACTIONS BETWEEN THE OPTIMUM COOLING VELOCITY  
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- 02-P9-242 PTERIDINES IN PHOTOSYNTHETIC REDUCTION  
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- 02-P9-243 ANALYSIS OF NUCLEAR DEGENERATION DURING THE TERMINAL LENS FIBER CELL DIFFERENTIATION  
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- 02-P9-244 KINETICS OF CELL POPULATION  
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- 02-P9-245 THE INDUCTION OF CARCINOMA OF THE GLANDULAR STOMACH IN MICE BY WHOLE BODY IRRADIATION  
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- 02-P9-246 QUANTITATIVE EXPERIMENTAL STUDY OF LOW LEVEL RADIATION CARCINOGENESIS  
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CLAPP, N. K. + CONKLIN, J. W. + COSGROVE, G. E.  
BARDEN, E. B., JR. + KASTENBAUM, M. A.  
ODELL, T. T., JR. + SERRANO, L. J. + TYNDALL, R. L.  
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- 02-P9-249 THE BIOLOGICAL RESPONSES OF HABROBRACON TO SPACE FLIGHT  
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- 02-P9-252 INDUCTION OF HEPATIC ENZYMES BY CYCLIC ADENOSINE 3',5' MONO PHOSPHATE  
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- 02-P9-254 HORMONAL CONTROL OF YOLK PROTEIN SYNTHESIS IN THE AMPHIBIAN LIVER  
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- 02-P9-255 CHANGES IN HEPATIC RNA SYNTHESIS ASSOCIATED WITH SYNTHESIS OF YOLK PROTEINS IN XENOPUS MALES GIVEN ESTROGEN  
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- 02-P9-259 ISOLATING TRANSFER RNAs AND IN VITRO HEMOGLOBIN SYNTHESIS IN C3H AND C57BL MICE  
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- 02-P9-250 PRODUCTION OF GRAM QUANTITIES OF PURIFIED FORMYL METHIONINE TRANSFER RNA AND PHENYLALANINE TRANSFER RNA FROM LARGE SCALE GROWTH OF ESCHERICHIA-COLI-K-12-M07  
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- 02-P9-265 REPAIR OF DNA IN HAEMOPHILUS INFLUENZAE III. EXCISION AND RECOMBINATION DEFECTS AND THE SITE OF REPAIR OF ULTRAVIOLET IRRADIATED TRANSFORMING DNA  
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- 02-P9-271 INTERACTION OF VALINE TRANSFER RNA ( ESCHERICHIA-COLI ) WITH PHENYLALANYL TRANSFER RNA SYNTHETASE FROM  
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- 02-P9-272 IMPAIRMENT OF DIFFERENTIATION AND PROLIFERATION OF IMMUNOCOMPETENT AND SPLEEN COLONY FORMING CELLS IN  
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- 02-P9-273 MORPHOLOGIC AND FUNCTIONAL EFFECTS OF POLYOMA VIRUS ON MOUSE LYMPHATIC TISSUES  
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- 02-P9-276 A MODEL FOR LYMPHOPOIESIS AND CELLULAR IMMUNITY IN THE MOUSE  
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- 02-P9-277 GENETICS OF BACTERIA IN VIVO AS RELATED TO MICROBIAL ECOLOGY  
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- 02-P9-278 LOCALIZATION OF LYMPH NODE LYMPHOCYTES IN ATROPHIC SPLEEN WHITE PULP OF IRRADIATED MICE  
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- 02-P9-280 GENETIC EXCHANGE BETWEEN ESCHERICHIA-COLI-K-12 STRAINS IN THE INTESTINAL TRACT OF MICE  
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- 02-P9-281 MURINE LEUKEMIA VIRUS LOCALIZATION IN LYMPHATIC GERMINAL CENTERS - RELATION BETWEEN IMMUNE RESPONSE AND  
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- 02-P9-282 POLY URIDYLIC DIRECTED POLY PHENYL ALANINE SYNTHESIS IN MINICELL EXTRACTS  
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- 02-P9-283 STRUCTURE OF TRANSFER RNA OF ESCHERICHIA-COLI-B  
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- 02-P9-286 PENETRATION OF INTESTINAL TISSUE BY H. NANA IN IMMUNIZED MICE  
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- 02-P9-288 REPAIR OF SPORE TYPE PHOTOPRODUCTS IN VEGETATIVE CELLS  
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- 02-P9-289 LIGHT INDUCED MODIFICATIONS IN THE TRANSFER RNAs OF EUGLAENA-GRACILIS  
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- 02-P9-290 INFLUENCE OF THYMUS CELLS ON GROWTH OF TRANSPLANTED BONE MARROW IN THE MOUSE  
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- 02-P9-291 ACTIVE SITE MODIFICATION OF TRIOSE PHOSPHATE ISOMERASE  
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- 02-P9-292 EFFECTS OF MICROBIAL ENVIRONMENT AND ENDOTOXIN ON HEMODIESIS IN SUBLETHALLY IRRADIATED RFM MICE  
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- 02-P9-296 CYTOGENETICS FOLLOWING RADIATION EXPOSURES IN MAN AND ANIMALS  
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- 02-P9-300 TUMORIGENESIS IN RF MICE AS INFLUENCED BY CUMULATIVE DOSE OF DI ETHYL NITROSAMINE ( DEN )  
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- 02-P9-301 INFERENCES ABOUT CELLULAR EVENTS RESPONSIBLE FOR COMPETITION OF ANTIGENS  
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- 02-P9-304 AUTOMATED QUANTITATIVE ANALYSIS OF CARBOHYDRATES ON THE BORATE FORM OF ANION EXCHANGE RESINS  
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- 02-P9-305 FREEZING OF BACTERIOPHAGE T4 - TEMPERATURE AND RATE EFFECTS AS A FUNCTION OF SALT CONCENTRATION  
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- 02-P9-312 INTRODUCTORY STATEMENT - CIBA FOUNDATION SYMPOSIUM ON MUTATION AS CELLULAR PROCESS  
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- 02-P9-313 MECHANISMS OF FREEZING DAMAGE IN BACTERIOPHAGE T4  
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FERRIS, L. M. + MAILLEN, J. C. + SMITH, F. J.  
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BURCH, W. D. + HILL, A. J., JR.  
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MROCHEK, J. E. + HOLMES, J. M. + MICHEL, J. W.  
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RUNNALLS, N. G. + TROUTNER, D. E. + FERGUSON, R. L.  
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HALPERIN, J. + BEMIS, C. E., JR. + DRUSCHEL, R. E.  
STOKELY, J. R.  
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- 04-J9-14548 ALPHA DECAY OF URANIUM-227  
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RILEY, J. F.  
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- 04-P9-381 FRAGMENT ENERGY CORRELATION MEASUREMENTS IN THE FISSION OF THORIUM-232, URANIUM-238, AND PLUTONIUM-239  
BY 8-12.5-MEV PROTONS  
FERGUSON, R. L. + PLASIL, F. + PLEASANTON, F.  
SCHMITT, H. W.  
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- 04-P9-382 DELAYED NEUTRON YIELDS AND SPECTRA FROM CALIFORNIUM-252 SPONTANEOUS FISSION  
CHULICK, E. T. + REEDER, P. L. + EICHLER, E.  
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- 04-P9-383 ELECTROCHEMICAL ASPECTS OF THE CORROSION OF METALS  
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- 04-P9-384 THE CHEMICAL THERMODYNAMICS OF TECHNETIUM AND RHENIUM  
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- 04-P9-386 GAMMA-RAY SPECTROMETRY OF RETURNED LUNAR SAMPLES  
OKELLEY, G. D. + ELDRIDGE, J. S. + BELL, P. R.  
RICHARDSON, K. A. + SCHONFELD, E.  
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- 04-P9-387 THE ORNL HIGH FLUX ISOTOPE REACTOR  
KELLER, D. L., JR.  
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- 04-P9-390 DECAY OF EUROPIUM-158  
RIEDINGER, L. L. + JOHNSON, N. R. + KLUK, A. F.  
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HAHN, P. L. + ROCHE, M. F. + TOTH, K. S.  
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- 04-P9-393 THE PRODUCTION OF PER HALATE AND HALITE IONS IN CRYSTALLINE ALKALI METAL HALATES IRRADIATED WITH COBALT-60 GAMMA-RAYS  
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- 04-P9-396 MOLECULAR BEAM EXPERIMENTS ON INELASTIC SCATTERING  
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- 04-P9-400 A MODEL FOR TORSIONAL OSCILLATORS IN LEAST-SQUARES REFINEMENT - APPLICATION TO THE METHYL GROUPS IN  
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BROWN, G. M. + CHIDAMBARAM, R.  
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- 04-P9-401 OBSERVED DIFFRACTION PATTERN AND PROPOSED MODELS OF LIQUID WATER  
NARTEN, A. H. + LEVY, H. A.  
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- 04-P9-402 DIFFRACTION PATTERN AND CORRELATION FUNCTIONS OF LIQUID GALLIUM  
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- 04-P9-404 MASS ENERGY CORRELATIONS IN THE 7-13-MEV PROTON INDUCED FISSION OF THORIUM, URANIUM, AND PLUTONIUM  
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FERGUSON, R. L. + BURNETT, S. C. + PLASIL, F.  
PLEASANTON, F. + SCHMITT, H. W.  
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- 04-P9-405 SYSTEMATICS OF  $K(\beta_1)$  EQUALS 0- AND 1- ORDERED BANDS IN TRANSITIONAL NUCLEI  
HAMILTON, J. H. + JOHNSON, N. R. + RIEDINGER, L. L.  
MCMILLAN, D. J. + KLUK, A. F. + WHITLOCK, L. C.  
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- 04-P9-406 KINETIC EVIDENCE FOR A PRIMARY YIELD OF NITROGEN - OXYGEN FREE RADICAL,  $\text{NO}_3$  RADICALS IN THE RADIOLYSIS  
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- 04-P9-407 ZERO SPIN FOR THE 1482.6-KEV LEVEL IN GERMANIUM-74 FROM GAMMA-GAMMA ANGULAR CORRELATIONS  
COFFMAN, F. E. + HAMILTON, J. H. + RAMAYYA, A. V.  
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- 04-P9-408 AN ATOMIC HALOGEN BEAM SOURCE FOR THE 0.1-10-EV REGION  
SCHMIDT-BLEEK, F. + OSTROM, G. + DATZ, S.  
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- 04-P9-409 PERFORMANCE AND OPERATING EXPERIENCE WITH THE ORNL 150-CM SECTOR SEPARATOR  
HUNT, I. D. + BEMIS, C. E., JR.  
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- 04-P9-410 THE CRYSTAL STRUCTURE OF SEDHEPTULOSAN MONO HYDRATE  
BROWN, G. M. + THIESSEN, W. E.  
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- 04-P9-411 A NEUTRON DIFFRACTION STUDY OF MAGNESIUM CHLORIDE HEXA HYDRATE  
AGRON, P. A. + BUSING, W. R.  
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- 04-P9-412 ON ESTIMATING LIBRATION FROM THE APPARENT SHRINKAGE OF INTERATOMIC DISTANCES AND VICE VERSA  
JOHNSON, C. K.  
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- 04-P9-413 CRYSTAL AND MOLECULAR STRUCTURES OF TRI ( PARA FLUORO PHENYL ) AMINE AND TRI ( PARA IODO PHENYL ) AMINE  
FREEMAN, G. R. + LEVY, H. A. + BROWN, G. M.  
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- 04-P9-414 STRUCTURE AND STEREOCHEMISTRY OF ALPHA AND BETA CUBENE FROM THE CRYSTAL STRUCTURE OF NOR BETA CUBEBONE  
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- 04-P9-415 NUCLEAR STRUCTURE STUDIES IN THE TRANSURANIUM REGION AT ORNL  
BEMIS, C. E., JR.  
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- 04-P9-416 LEVELS IN PLUTONIUM-240 POPULATED IN THE DECAY OF NEPTUNIUM-240M AND IN THE ALPHA DECAY OF CURIUM-244  
SCHMORAK, M. R. + BEMIS, C. E., JR. + ZENDER, M. J.  
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- 04-P9-417 INELASTIC SCATTERING OF ALKALI ATOMS AND IONS FROM HYDROGEN MOLECULES  
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- 04-P9-418 SIMPLE MODIFICATION OF THE CARY MODEL-81 RAMAN SPECTROPHOTOMETER TO PERMIT USE OF LASER LIGHT SOURCES  
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SILVA, R. J. + HAMN, R. L. + KELLER, O. L., JR.  
TOTH, K. S. + MALLORY, M. L. + ROCHE, M. F.  
BEMIS, C. E., JR. + DITTNER, P. F.  
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- 04-P9-420 ENERGY DEPENDENCE OF CHANNELED ION ENERGY LOSS SPECTRA  
DATZ, S. + MOAK, C. D. + APPLETON, B. R.  
ROBINSON, M. T. + OEN, D. S.  
13 + 18  
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- 04-P9-421 FRACTIONAL CUMULATIVE YIELDS OF NIOBIUM-99 FROM LOW ENERGY FISSION OF URANIUM-233, URANIUM-235,  
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- 04-P9-1409 HALF-LIVES OF CALIFORNIUM-253 AND EINSTEINIUM-253  
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- 04-P9-1410 ENERGY DEPENDENCE OF CHANNELED ION ENERGY LOSS SPECTRA  
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- 04-P9-1411 PREPARATION AND PROPERTIES OF BERKELIUM METAL  
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- 04-P9-1412 THE HIGH TEMPERATURE ENTHALPIES OF THE LEAD HALIDES  
GILBERT, R. A. + BUSEY, R. H. + LINSEY, C. W.  
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- 04-P9-1415 APPLICATIONS OF QUANTITATIVE GAMMA-GAMMA COINCIDENCE MEASUREMENTS  
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- 04-P9-1416 LASER INDUCED SINGLE AND DOUBLE PHOTON EXCITATION AND DISSOCIATION IN GASEOUS NITROUS OXIDE  
NUGENT, L. J. + SWAGEL, M. W. + JOHNSON, F. M.  
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- 04-P9-1417 DECAY OF TANTALUM-170  
LITTLE, P. E. + HAMILTON, J. H. + RAMAYYA, A. V.  
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AMINE  
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- 08-P9-485 METHODS OF ESTIMATING EXPOSURES TO POPULATIONS FROM PLOWSHARE APPLICATIONS  
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- 08-P9-486 RESULTS OF THE OPERATION OF PROJECT SALT VAULT, A DEMONSTRATION OF DISPOSAL OF HIGH LEVEL RADIOACTIVE  
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- 08-P9-487 APPLICATION OF ICRP RECOMMENDATIONS RELEVANT TO INTERNAL DOSE  
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- 08-P9-488 ROOF BOLT TEST AND APPLICATION IN SUPPORTING A TWO FOOT THICK ROOF BED  
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- 08-P9-489 LONG LIVED, POLYATOMIC, NEGATIVE IONS FORMED BY ELECTRON CAPTURE IN THE FIELD OF THE GROUND AND EXCITED  
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- 08-P9-490 ON THE MECHANISM OF RADIATION DAMAGE ALONG CHARGED PARTICLE TRACKS IN ORGANIC POLYMERS  
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- 08-P9-491 SENSITIVE AUTOMATIC ALPHA PARTICLE TRACK COUNTING IN POLYMERS AND ITS APPLICATIONS IN DOSIMETRY  
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- 08-P9-492 SOME STUDIES ON THE CHEMICAL DAMAGE MECHANISM ALONG CHARGED PARTICLE TRACKS IN POLYMERS  
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- 08-P9-493 FACTORS AFFECTING THE BEHAVIOR OF CALCIUM AND STRONTIUM IN MINERAL EXCHANGE SYSTEMS  
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- 08-P9-494 DOSE TO THE FETUS FROM GAMMA EMITTERS PRESENT IN THE BLADDER  
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- 08-P9-495 REVIEW OF NEUTRON DEPTH DOSE THEORY AND EXPERIMENTS  
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- 08-P9-496 A MODEL FOR ESTIMATION OF MEAN ACTIVITY PRESENT IN SEGMENTS OF THE GI TRACT AT ANY TIME POSTINJECTION  
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- 08-P9-497 THE EFFECT OF FAST NEUTRON RADIATION AND LIGHT INTENSITY ON ROOT-SHOOT RATIOS OF  
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- 08-P9-498 INSURING ENVIRONMENTAL QUALITY THROUGH SITE, DESIGN, AND OPERATION REVIEW  
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- 08-P9-499 DOSE AND LINEAR ENERGY TRANSFER DISTRIBUTIONS IN A MAN EQUIVALENT CYLINDER DUE TO A COLLIMATED BEAM OF  
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- 08-P9-501 PREDICTION OF RADIOSENSITIVITY IN MAMMALS  
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- 08-P9-502 INVESTIGATION OF THE CONCEPT OF USING RADIONUCLIDES FOR METABOLIC MEASUREMENTS  
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- 08-P9-503 EMISSION AND DECAY OF ORGANIC LIQUIDS UNDER INTENSE ELECTRON BOMBARDMENT  
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- 08-P9-504 UPTAKE AND ELIMINATION OF RADIO TUNGSTEN IN BLACK BULLHEADS ( ICTALURUS-MELAS )  
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- 08-P9-505 RADIATION EFFECTS ON SOCIAL STRUCTURE AND SURVIVAL OF HONEYBEE POPULATIONS  
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- 08-P9-506 FALLOUT STUDIES ON NATIVE VEGETATION II. FIELD RETENTION OF A FALLOUT SIMULANT BY WHITE PINE AND RED  
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- 08-P9-508 CALCULATION OF SPECTRA OF RECOIL HEAVY PARTICLES  
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- 08-P9-510 THE USE OF ZONE REFINING TO PURIFY ORGANIC SCINTILLATORS USED FOR NEUTRON DETECTION  
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- 08-P9-511 FALLOUT STUDIES ON NATIVE VEGETATION I. EFFECTS OF BETA RADIATION ( STRONTIUM-90 ) ON WHITE PINE AND  
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- 08-P9-513 NEUTRON SPECTRA IN AIR AT LARGE DISTANCES FROM A SOURCE OF 14-MEV NEUTRONS  
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- 08-P9-514 POTENTIAL ENERGY AND VIBRATIONAL WAVE FUNCTIONS FOR HYDROGEN BROMIDE(BROMINE-81)  
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- 08-P9-515 DETECTION OF AUTOIONIZATION ELECTRONS FROM THE DISSOCIATIVE STATE OF CARBON DIOXIDE NEGATIVE ION NEAR  
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- 08-P9-516 ON THE DERIVATIVES OF ARBITRARY REAL VALUED SET FUNCTIONS  
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- 08-P9-517 CALCULATIONS OF THE PENETRATION OF CHARGED PARTICLES THROUGH MATTER AT VERY HIGH ENERGIES  
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- 08-P9-519 EVALUATION OF A SOYBEAN - RAYLEY DOUBLE CROPPING SYSTEM  
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- 08-P9-520 FUTURE OPPORTUNITIES IN HEALTH PHYSICS  
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- 08-P9-521 THE MECHANICS OF HYDRAULIC FRACTURES IN SHALES  
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- 08-P9-522 THE DISPOSAL OF SOLIDIFIED RADIOACTIVE WASTES IN SALT MINES  
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- 08-P9-525 VARIATIONAL METHOD FOR LONG RANGE SCATTERING INTERACTIONS  
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- 08-P9-526 ACCUMULATION OF RARE EARTHS AND CYCLING OF CERIUM BY HICKORY TREES  
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- 08-P9-527 EFFECTS OF TEMPERATURE AND RADIATION STRESSES ON THE SURVIVORSHIP OF ISOPODS -  
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- 08-P9-528 ELECTRON ATTACHMENT TO NITROUS OXIDE  
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- 08-P9-529 POPULATION ENERGETICS - A FOOD ENERGY BUDGET FOR WOLF SPIDERS, LYCOSA-RABIDA(WALCKENAER)  
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- 08-P9-530 NEW IMAGING TECHNIQUES FOR IONIZING RADIATION  
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- 08-P9-531 HIGH CURRENT EXOELECTRON EMISSION FROM MAGNESIUM  
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- 08-P9-532 DISPOSAL OF MEDIUM LEVEL RADIOACTIVE WASTE BY HYDRAULIC FRACTURING  
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- 08-P9-533 A STOCHASTIC MODEL OF ENERGY FLOW IN PREDATOR COMPARTMENTS OF AN ECOSYSTEM  
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- 08-P9-534 EFFECTS OF CHEMICAL AND MECHANICAL COVER MANAGEMENT ON DECOMPOSITION PROCESSES IN A GRASSLAND SOIL  
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- 08-P9-535 EDUCATION, TRAINING AND CERTIFICATION REQUIREMENTS OF THE X-RAY TECHNOLOGIST  
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- 08-P9-536 DETERMINATION OF DOSE EQUIVALENT FOR MONTE-CARLO ANALYSIS OF PULSE-HEIGHT SPECTRA  
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- 08-P9-537 AMBIGUITY OF THE TERM QUALITY FACTOR  
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- 08-P9-538 NEGATIVE ION FORMATION IN SELECTED HEXA FLUORIDE MOLECULES  
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- 08-P9-539 THE ELECTRON FLUX SPECTRA AND RADIATION YIELDS IN SOLIDS IRRADIATED BY NUCLEAR RADIATION  
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- 08-P9-540 RADIATION INDUCED INCREASE IN FITNESS IN DROSOPHILA-SIMULANS  
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- 08-P9-541 CONTAMINATION EFFECTS ON THE PHOTOELECTRIC PROPERTIES OF MAGNESIUM FILMS IN THE VACUUM ULTRAVIOLET  
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- 08-P9-542 THERMAL ELECTRON ATTACHMENT RATES OF SULFUR HEXA FLUORIDE FOR DIFFERENT CARRIER GAS DILUTANTS  
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- 08-P9-543 WALKER BRANCH WATERSHED - A CASE STUDY IN QUANTITATIVE ECOSYSTEM RESEARCH  
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- 08-P9-1035 STANDARD MAN - STANDARD PATIENT  
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- 08-P9-1036 WHY THE 1968 ACT FOR RADIATION CONTROL FOR HEALTH AND SAFETY IS REQUIRED  
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- 08-P9-1037 ACCEPTABLE RISK CONCEPTS  
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- 08-P9-1038 THE STREAM ECOSYSTEM - LOTIC COMMUNITY INTERACTIONS  
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- 08-P9-1039 THE EFFECTS OF CHRONIC GAMMA IRRADIATION ON SNAILS  
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- 08-P9-1040 EMISSION OF PHOTONS BY NONRADIATIVE SURFACE PLASMONS  
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- 08-P9-1041 ACCEPTABLE RISK CONCEPTS  
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- 08-P9-1042 AN INTRODUCTION TO RADIATION - ITS EFFECTS, ITS CONTROL AND GENERAL IMPACT UPON THE ENVIRONMENT  
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- 08-P9-1043 THE ROLE OF THE SOIL MICROFLORA IN DECOMPOSITION AND MINERAL CYCLING  
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- 08-P9-1044 DAILY FEEDING RATES OF BLUEGILL DETERMINED BY A RADIOISOTOPE METHOD  
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- 08-P9-1045 RECENT PROGRESS IN SOLID STATE DOSIMETRY  
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- 08-P9-1046 RECENT PROGRESS IN SOLID STATE DOSIMETRY  
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- 08-P9-1047 RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS IN JAPANESE SURVIVORS  
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- 08-P9-1048 REVIEW OF DEPTH DOSE CALCULATION AND EXPERIMENTATION  
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- 08-P9-1050 THE RATIO OF TRANSVERSE AND LONGITUDINAL DIFFUSION COEFFICIENTS  
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- 08-P9-1051 ELECTRON IMPACT EXCITATION AND IONIZATION STUDIES OF HELIUM, NEON, AND ARGON  
GRISSOM, J. T. + COMPTON, R. N. + GARRETT, W. R.  
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- 08-P9-1052 ELECTRON ATTACHMENT CROSS SECTIONS AND NEGATIVE ION LIFETIMES FOR PARA BENZOQUINONE AND 1,4 NAPHTHO  
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- 08-P9-1053 ELECTRON ATTACHMENT IN THE FIELD OF THE GROUND AND EXCITED ELECTRONIC STATES OF THE AZULENE MOLECULE  
CHANEY, F. L. + CHRISTOPHOROU, L. G. + COLLINS, P. M.  
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- 08-P9-1054 PHOTOSENSITIZED IONIZATION OF MOLECULES  
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- 08-P9-1056 THE RELATION OF INTAKE TO BLOOD, BLOOD ACTIVITY, AND EXCRETION OF PLUTONIUM AT EARLY TIMES POSTEXPOSURE  
SNYDER, W. S.  
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- 08-P9-1057 ESTIMATION OF ABSORBED FRACTION OF ENERGY FROM PHOTON SOURCES IN BODY ORGANS  
SNYDER, W. S.  
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- 08-P9-1058 ENERGY AND NUTRIENT METABOLISM OF SOIL AND LITTER INVERTEBRATES  
REICHLER, D. E.  
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- 08-P9-1059 STOPPING POWER OF MATTER FOR DEUTERONS AT EXTREME RELATIVISTIC ENERGIES  
VORA, R. B. + TURNER, J. E.  
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- 08-P9-1060 MONTE-CARLO METHOD OF DETERMINING LINEAR ENERGY TRANSFER SPECTRA FROM PULSE-HEIGHT MEASUREMENTS  
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- 08-P9-1061 CALCULATION OF DOSE FROM HIGH ENERGY NUCLEONS  
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- 08-P9-1062 SOIL MINERAL SEGREGATION USING ISOPYCNIC ZONAL CENTRIFUGATION  
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- 08-P9-1064 DISPOSAL OF SOLIDIFIED POWER REACTOR WASTES IN SALT MINES  
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- 08-P9-1065 METHODS OF ESTIMATING POTENTIAL DOSE EQUIVALENTS TO POPULATION GROUPS  
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- 08-P9-1066 DISPERSION OF SURFACE PLASMONS IN DIELECTRIC METAL COATINGS ON CONCAVE DIFFRACTION GRATINGS  
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- 08-P9-1067 OPTICAL PROPERTIES OF ORGANIC LIQUIDS IN THE VACUUM ULTRAVIOLET I. ANALYSIS OF OPTICAL DATA  
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- 08-P9-1068 OPTICAL PROPERTIES OF ORGANIC LIQUIDS IN THE VACUUM ULTRAVIOLET II. SATURATED HYDROCARBONS  
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- 11-P9-597 HIGH FLUENCE NEUTRON IRRADIATION DAMAGE IN ALUMINUM  
STIEGLER, J. O. + FARRELL, K. + DUBOSE, C. K. H.  
KING, R. T.  
SYMP. RADIATION DAMAGE REACTOR MATER., IAEA, VIENNA, JUNE 2-6, 1969
- 11-P9-598 DIFFUSION STUDIES AND ELECTROCHEMICAL SECTIONING  
PAWEL, R. E. + LUNDY, T. S.  
ELECTROCHEM. SOC., NEW YORK, MAY 4-9, 1969
- 11-P9-599 THE EFFECT OF OXYGEN ON THE COMPATIBILITY OF VANADIUM AND VANADIUM ALLOYS WITH SODIUM  
KLUEH, R. L. + DEVAN, J. H.  
MET. SOC., AM. INST. MINING, MCT., AND PETROL. ENGR., PITTSBURGH,  
MAY 11-15, 1969
- 11-P9-600 NONDESTRUCTIVE TEST DEVELOPMENT AT ORNL  
MCCLUNG, R. W.  
AM. SOC. NONDESTRUCTIVE TESTING, LOS ALAMOS, N.M., MAR. 5-6, 1969
- 11-P9-601 ELECTRO DISCHARGE MACHINED REFERENCE DISCONTINUITIES  
MCCLUNG, R. W.  
AM. SOC. NONDESTRUCTIVE TESTING, ALBUQUERQUE, N.M., MAR. 5-6, 1969
- 11-P9-602 APPLICATION OF FRACTOGRAPHY TO THE STUDY OF HIGH TEMPERATURE PROCESSES  
FARRELL, K. + STIEGLER, J. O.  
AM. SOC. TESTING MATER., PHILADELPHIA, MAR. 27, 1969
- 11-P9-603 AN X-RAY TECHNIQUE FOR MEASURING THICKNESS OF TUNGSTEN ON COPPER  
FCSTER, B. E. + SNYDER, S. O.  
SYMP. NONDESTRUCTIVE EVAL. COMPONENTS MATER. AEROSPACE, WEAPONS  
SYSTEMS, NUCL. APPL., SAN ANTONIO, TEX., APR. 23-25, 1969
- 11-P9-604 THE LATTICE PARAMETER OF URANIUM MONO CARBIDE - URANIUM NITRIDE AS A FUNCTION OF COMPOSITION  
LEITNAKER, J. M. + POTTER, R. A. + SPEAR, K. E.  
LAING, W. R.  
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AM. CERAM. SOC., WASHINGTON, D.C., MAY 3-8, 1969
- 11-P9-605 IRRADIATION OF PYROLYTIC CARBON COATED THORIUM DI OXIDE PARTICLES TO SIGNIFICANT HIGH TEMPERATURE GAS  
COOLED REACTOR FAST FLUENCES  
HEWETTE, D. M., II  
EURATOM MEET., BRUSSELS, MAY 5-6, 1969
- 11-P9-606 ON THE MECHANISM AND KINETICS OF THE OMEGA TRANSFORMATION IN TITANIUM 25 ATOMIC PERCENT NIUBIUM  
HENDRICKS, R. W. + KOCH, C. C. + LOVE, G. R.  
MET. SOC., AM. INST. MINING, MET., PETROL. ENGR., PITTSBURGH,  
MAY 12-15, 1969
- 11-P9-607 CAPACITY EXPANSION OPTIMIZATION IN A GROWING NUCLEAR FUEL FABRICATION INDUSTRY  
HOMAN, F. J. + WASHBURN, T. N.  
AM. NUCL. SOC., SEATTLE, JUNE 15-19, 1969
- 11-P9-608 EFFECTS OF FABRICATION PARAMETERS ON TEXTURES PRODUCED IN ZIRCALOY CLADDING  
HOBSON, D. O. + TENCKHOFF, E. J.  
AM. NUCL. SOC., SEATTLE, JUNE 15-19, 1969
- 11-P9-609 URANIUM-233 BEARING SALT PREPARATION FOR THE MOLTEN SALT REACTOR EXPERIMENT  
CHANDLER, J. M. + BOLT, S. E.  
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AM. NUCL. SOC., SEATTLE, JUNE 15-19, 1969
- 11-P9-610 DEVELOPMENT OF HIGH TEMPERATURE BRAZING FILLER METALS  
CANONICO, D. A. + COLF, N. C. + SLAUGHTER, G. M.  
AM. WELDING SOC., PHILADELPHIA, APR. 28-MAY 2, 1969
- 11-P9-611 ANISOTROPY DETERMINATIONS OF POTENTIAL NUCLEAR GRAPHITES  
CAVIN, D. B.  
CONF. CARBON, 9TH, BOSTON, JUNE 16-20, 1969
- 11-P9-612 PREFERRED ORIENTATION AND ITS EFFECT ON RADIATION STABILITY  
CAVIN, D. B.  
EURATOM MEET., BRUSSELS, MAY 5-6, 1969

- 11-P9-613 URANIUM(IV) OXIDE - TUNGSTEN CERMETS PRODUCED BY UNIDIRECTIONAL SOLIDIFICATION  
CHAPMAN, A. T. + CLARK, G. W. + HENDRIX, D. E.  
AM. CERAM. SOC., WASHINGTON, D.C., MAY 3-8, 1969
- 11-P9-614 AN IMPROVED CRUSHING METHOD FOR URANIUM ALUMINUM UAL(X) FUEL PARTICLES  
COPELAND, G. L.  
AM. NUCL. SOC., SEATTLE, JUNE 15-19, 1969
- 11-P9-615 REMOTE ULTRASONIC EXAMINATION OF CLOSURE WELDS ON ISOTOPE CAPSULES  
COOK, K. V.  
SYMP. NONDESTRUCTIVE EVAL. COMPONENTS MATER. AEROSPACE, WEAPONS  
SYSTEMS, NUCL. APPL., SAN ANTONIO, TEX., APR. 23-25, 1969
- 11-P9-616 STUDIES OF RECOIL ATOM POSITIONS BY THE MOSSBAUER EFFECT IN IRON - ALUMINUM ALLOYS  
CZJZEK, G. + BERGER, W. G.  
AM. PHYS. SOC., PHILADELPHIA, MAR. 24-27, 1969
- 11-P9-617 DEFORMATION BEHAVIOR OF NIOBIUM - HAFNIUM ALLOYS  
CARPENTER, R. W. + LIU, C. T.  
AM. INST. MINING, METALLURGICAL AND PETROLEUM ENGINEERS,  
PITTSBURGH, MAY 12-15, 1969
- 11-P9-618 COMPARISON OF DEFECT STRUCTURES IN NICKEL AND STAINLESS STEEL AFTER IRRADIATION AT INTERMEDIATE  
TEMPERATURES  
BLOOM, E. E. + STIEGLER, J. O.  
AM. NUCL. SOC., SEATTLE, JUNE 15-19, 1969
- 11-P9-619 IRRADIATION DAMAGE TO ANNEALED TYPE 316 STAINLESS STEEL  
BLOOM, E. E.  
AM. NUCL. SOC., SEATTLE, JUNE 15-19, 1969
- 11-P9-620 THE EFFECT OF LOW PRESSURE OXYGEN ON THE CREEP PROPERTIES OF TUNGSTEN AND A TUNGSTEN - MOLYBDENUM ALLOY  
INDUYE, H.  
VACUUM MET. CONF., PITTSBURGH, JUNE 16-19, 1969
- 11-P9-621 GAS IMPREGNATION OF GRAPHITE WITH CARBON  
DEATY, P. L. + KIPLINGER, D. V.  
EURATOM MEET., BRUSSELS, MAY 5-6, 1969
- 11-P9-622 X-RAY ATTENUATION SCANNING OF NUCLEAR FUEL PLATES  
FOSTER, B. E. + SNYDER, S. D. + KNIGHT, R. W.  
AM. SOC. QUALITY CONTROL, LOS ANGELES, MAY 5-7, 1969
- 11-P9-623 THE RECRYSTALLIZATION CHARACTERISTICS OF MODERATELY DEFORMED ALUMINUM  
VANDERMEER, R. A.  
INTERN. CONF. QUANT. RELATION BETWEEN PROPERTIES MICROSTRUCTURE,  
HAIFA, ISRAEL, JULY 24-AUG. 1, 1969
- 11-P9-624 THE ROLE OF ANALYTICAL CHEMISTRY IN THE DEVELOPMENT AND OPERATION OF LIQUID METAL FAST BREEDER REACTORS  
HARMS, W. U.  
CONF. ANAL. CHEM. NUCL. TECHNOL., GATLINBURG, TENN.,  
SEPT. 30-OCT. 2, 1969
- 11-P9-625 QUANTIMET AREA FRACTION PROBLEMS  
KEGLEY, T. M., JR.  
INTERN. MET. SOC., SAN FRANCISCO, SEPT. 10-11, 1969
- 11-P9-626 THE SHIELDED ELECTRON MICROSCOPE ANALYZER AT ORNL  
LONG, C. L., JR. + MILLER, J. L., JR. + GPAY, R. J.  
MET. GROUP MEET., AEC, SAN FRANCISCO, SEPT. 11-12, 1969
- 11-P9-627 THE ROLE OF CARBON IN REACTIONS IN THE URANIUM - CARBON - OXYGEN - NITROGEN SYSTEM  
LINDEMER, T. B. + LEITNAKER, J. M. + SPEAR, K. E.  
INTERN. CONF. HETEROGENEOUS KINETICS ELEVATED TEMP., PHILADELPHIA,  
SEPT. 8-10, 1969
- 11-P9-628 EFFECT OF ALLOYING ADDITIONS ON PRECIPITATION IN A NICKEL - MOLYBDENUM - CHROMIUM ALLOY  
GELBACH, P. E. + SESSIONS, C. E. + COOK, S. W.  
INTERN. MET. CONF., SAN FRANCISCO, SEPT. 8-10, 1969
- 11-P9-629 ACID BASE CHEMISTRY OF NICKEL(II) IN MOLTEN CESIUM TETRA CHLORIDE ALUMINATE  
BRYNESTAD, J.  
GORDON RES. CONF. MOLTEN SALTS, MERIDEN, N.H., AUG. 24-29, 1969
- 11-P9-630 ELECTRICAL CONDUCTIVITIES OF MOLTEN ALUMINUM HALIDE - ALKALI HALIDE MIXTURES  
BOSTON, C. B. + GRANTHAM, L. F. + YOSIM, S. J.  
GORDON RES. CONF., MOLTEN SALTS, MERIDEN, N.H., AUG. 24-29, 1969
- 11-P9-631 DIRECT OBSERVATION AND IDENTIFICATION OF TRANSMUTATION INDUCED SILICON IN A NEUTRON IRRADIATED ALUMINUM  
ALLOY  
GELBACH, P. E. + STIEGLER, J. O. + FARRELL, K.  
MET. GROUP MEET., AEC, SAN FRANCISCO, SEPT. 11-12, 1969
- 11-P9-632 CRYSTAL STRUCTURES OF TRANSITION PHASES FORMED IN URANIUM - 16.60 ATOMIC PERCENT NIOBIUM - 5.64 ATOMIC  
PERCENT ZIRCONIUM ALLOYS  
YAKEL, H. L.  
INTERN. CONGR. CRYST., 8TH, STONY BROOK, N.Y., AUG. 7-27, 1969
- 11-P9-633 X-RAY DIFFRACTION ANALYSIS OF THE STRUCTURE OF THIN OXIDE FILMS GROWN ON COPPER SINGLE CRYSTALS  
EPPERSON, J. E.  
GORDON RES. CONF. CORROSION, NEW LONDON, N.H., JULY 21-25, 1969
- 11-P9-634 OXIDATION OF A URANIUM - NIOBIUM(0.075) - ZIRCONIUM(0.025) ALLOY  
CATHCART, J. V.  
GORDON RES. CONF. CORROSION, NEW LONDON, N.H., JULY 21-25, 1969



- 11-P9-635 POWDER METALLURGY TRANSITION FOR JOINING METALS TO GRAPHITE  
HAMMOND, J. P. + SLAUGHTER, G. M.  
INTERN. POWDER MET. CONF., NEW YORK, JULY 12-16, 1969
- 11-P9-636 HIGH INTENSITY XENON ARC LAMP FOR OLDER RESEARCH METALLOGRAPHS  
GRAY, R. J. + LESLIE, B. C.  
INTERN. MET. CONF., SAN FRANCISCO, SEPT. 8-10, 1969
- 11-P9-638 ANALYSIS OF THE VALIDITY OF FAST REACTOR FUEL TESTS IN EXISTING TEST REACTORS  
OLSEN, A. R. + FITZ, R. B. + COX, C. M.  
NATL. SYMP. DEVEL. IRRADIATION TESTING TECHNOL., SANDUSKY, OHIO,  
SEPT. 9-11, 1969
- 11-P9-639 FREQUENCY DEPENDENCE OF THE BULK CRITICAL CURRENT DENSITY IN TYPE TWO SUPERCONDUCTORS  
LOVE, G. R. + KOCH, C. C.  
SCI. SUPERCONDUCTIVITY CONF., STANFORD, CALIF., AUG. 26-29, 1969
- 11-P9-640 SOME ASPECTS OF INITIAL DENSIFICATION KINETICS DURING SINTERING  
MORGAN, C. S. + MCHARGUE, C. J.  
INTERN. ROUND TABLE MEET. SINTERING, HERCIG-NOVI, YUGOSLAVIA,  
AUG. 14-24, 1969
- 11-P9-641 BASIC THEORY FOR THERMAL DIFFUSE SCATTERING AT THE BRAGG ANGLE  
BORIE, B.  
INTERN. CONGR. CRYST., STONEY BROOK, N.Y., AUG. 12-24, 1969
- 11-P9-642 DESIGN AND FABRICATION OF TREAT SERIES I. ORNL OXIDE FUEL IRRADIATION EXPERIMENTS  
PRATT, R. B. + MOORE, W. L. + PRESTON, M. K., JR.  
COX, C. M. + SEASE, J. D.  
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NATL. SYMP. DEVEL. IRRADIATION TESTING TECHNOL., SANDUSKY, OHIO,  
SEPT. 9-11, 1969
- 11-P9-644 PREPARATION AND CRYSTAL STRUCTURES OF URANIUM VANADIUM CARBIDE ,UVC2 AND URANIUM VANADIUM NITRIDE ,UVN2  
SPEAR, K. E. + LEITNAKER, J. M.  
AM. CHEM. SOC., NEW YORK, SEPT. 7-12, 1969
- 11-P9-645 UNIDIRECTIONAL SOLIDIFICATION OF TUNGSTEN RODS AND PLATES FROM THE URANIUM(IV) OXIDE - TUNGSTEN SYSTEM  
CHAPMAN, A. T. + CLARK, G. W. + HENDRIX, D. E.  
CONF. CRYSTAL GROWTH, NBS, WASHINGTON, D.C., AUG. 11-13, 1969
- 11-P9-1081 THE EFFECT OF LOW PRESSURE OXYGEN ON THE CREEP PROPERTIES OF TUNGSTEN AND A TUNGSTEN - MOLYBDENUM ALLOY  
INOUYE, H.  
THERMIONIC CONVERSION SPEC. CONF., CARMEL, CALIF., OCT. 21-23, 1969
- 11-P9-1082 THE EFFECT OF LOW PRESSURE OXYGEN ON THE CREEP PROPERTIES OF TUNGSTEN AND A TUNGSTEN - MOLYBDENUM ALLOY  
( 50-50 WT PERCENT )  
INOUYE, H.  
MET. SOC., AIME, PHILADELPHIA, OCT. 13-16, 1969
- 11-P9-1083 PRODUCTION OF DISPLACEMENT DAMAGE BY LIGHT IONS  
KING, R. T.  
MET. SOC., AIME, PHILADELPHIA, OCT. 13-16, 1969
- 11-P9-1084 EVALUATION OF ACCELERATOR RADIATION EXPERIMENTS FOR REACTOR DAMAGE PROBLEMS  
KING, R. T.  
AM. NUCL. SOC., SAN FRANCISCO, NOV. 30-DEC. 4, 1969
- 11-P9-1085 CYCLOTRON SIMULATION OF NEUTRON TRANSMUTATION PRODUCED GASES IN REACTOR CLADDING AND STRUCTURAL MATERIALS  
KING, R. T.  
INTERN. CONF. USE CYCLOTRONS CHEM., MET., BIOL., OXFORD, ENGLAND,  
SEPT. 22-23, 1969
- 11-P9-1086 WELD RIPPLES - CLUES TO WELD BEHAVIOR  
LUNDIN, C. D. + SLAUGHTER, G. M.  
AM. WELD. SOC., NEW ORLEANS, OCT. 6-9, 1969
- 11-P9-1087 DISTRIBUTION AND EFFECTS OF POROSITY IN WELDS IN CVD TUNGSTEN  
LUNDIN, C. D. + FARRELL, K.  
AM. WELD. SOC., NEW ORLEANS, OCT. 6-9, 1969
- 11-P9-1088 ADJUSTMENT OF CALCULATED BAND STRUCTURES FOR CALCIUM BY USE OF LOW TEMPERATURE SPECIFIC HEAT DATA  
WILLIAMS, R. W. + DAVIS, H. L.  
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ELECTRON DENSITY STATES SYMP., NBS, WASHINGTON, D.C., NOV. 3-6, 1969
- 11-P9-1089 TEXTURE CONTROL IN ZIRCALOY TUBING  
HOBSON, D. O.  
AM. NUCL. SOC., SAN FRANCISCO, NOV. 30-DEC. 4, 1969
- 11-P9-1090 IRRADIATION OF PYROLYTIC CARBON COATED THORIUM DIOXIDE PARTICLES TO SIGNIFICANT HTGR FAST FLUENCES  
HEWETTE, D. M., II  
AM. CERAM. SOC., REG. MEET., SEATTLE, OCT. 15-17, 1969
- 11-P9-1091 KINETICS OF THE URANIUM DIOXIDE - MOLECULAR NITROGEN REACTION FROM 1500-1700C  
LINDEMER, T. B. + LEITNAKER, J. M.  
AM. CERAM. SOC., OCT. 15-17, 1969
- 11-P9-1092 MASS TRANSFER OF THE NICKEL-BASE HASTELLOY-N ALLOY IN A FLOWING FUSED FLUORIDE SALT SYSTEM  
KOFFER, J. W. + LITMAN, A. P.  
MET. SOC., AIME, PHILADELPHIA, OCT. 13-16, 1969

- 11-P9-1093 PENETRATION OF REFRACTORY METALS BY ALKALI METALS  
KLUEH, R. L.  
MET. SOC., AIME, PHILADELPHIA OCT.13-16,1969
- 11-P9-1094 GCFR FUELS IRRADIATION TESTS ON THE COOPERATIVE GGA - ORNL PROGRAM  
FITTS, R. B. + CUNEO, D. R. + LONG, E. L., JR.  
LONGEST, A. W.  
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HIGH-TEMP. FUELS COMM. MEET., SUNNYVALE, CALIF., DEC.8-10,1969
- 11-P9-1095 MEASUREMENT OF CARBON COATING THICKNESS ON MICROSOPHERES OF NUCLEAR FUELS  
FOSTER, B. E. + SNYDER, S. D.  
AM. SOC. NONDESTRUCTIVE TESTING, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1096 CHEMICAL VAPOR DEPOSITION OF VANADIUM  
FEDERER, J. I.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1097 GAS POROSITY AND HOT CRACKING IN FUSION WELDS IN TUNGSTEN  
FARRELL, K.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1098 ANALYSIS OF OXYGEN IN SODIUM BY GALVANIC CELL TECHNIQUES  
DEVAN, J. H.  
LIBBY-COCKCROFT EXCHANGE MEET. CORROSION REACTOR COOLANTS,  
HARWELL, ENGLAND, SEPT.15-17,1969
- 11-P9-1099 FUNDAMENTAL PROPERTIES OF URANIUM NITRIDE  
FULKERSUN, W.  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1100 THE ELECTRONIC STATES IN COPPER AND ALUMINUM  
FAULKNER, J. S.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1101 METALLOGRAPHY OF RADIOACTIVE MATERIALS  
GRAY, P. J. + LONG, E. L., JR. + RICHT, A. E.  
SYMP. APPL. MOD. METALLOG., ASM, ASTM, PHILADELPHIA, OCT.12,1969
- 11-P9-1102 REVIEW OF EVIDENCE FOR IRRADIATION DAMAGE FROM NEUTRON CHARGED PARTICLE REACTIONS IN METALS  
BLUUM, E. E.  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1103 MEASUREMENTS OF NUCLEAR HEATING RATES IN EBR-II AND HFIR  
BLOOM, E. E. + WOODS, J. W. + ZULLIGER, A. F.  
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LIBBY-COCKCROFT EXCHANGE MEET. IN-PILE MEASUREMENTS CAPSULE  
TECHNOL., COLUMBUS, O., SEPT.15-17,1969
- 11-P9-1104 RECENT OBSERVATIONS OF IRRADIATION INDUCED VOID FORMATION IN AUSTENITIC STAINLESS STEELS  
BLOOM, E. E. + STIEGLER, J. O.  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1105 RECENT OBSERVATIONS ON IRRADIATION INDUCED VOID FORMATION IN AUSTENITIC STAINLESS STEELS  
BLOOM, E. E. + STIEGLER, J. O.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1106 REVIEW OF SELECTED ORNL FUEL IRRADIATION CAPSULES - INSTRUMENTED AND UNINSTRUMENTED CAPSULES FOR THE  
HIGH FLUX ISOTOPE REACTOR  
COX, C. M. + CONLIN, J. A. + SENN, R. L.  
WEAVER, S. C.  
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LIBBY-COCKCROFT EXCHANGE MEET. IN-PILE MEASUREMENTS CAPSULE  
TECHNOL., COLUMBUS, O., SEPT.15-17,1969
- 11-P9-1107 REVIEW OF SELECTED ORNL FUEL IRRADIATION CAPSULES - AN INSTRUMENTED OAK-RIDGE RESEARCH REACTOR FUEL  
IRRADIATION CAPSULE FOR OPERATION WITH CONTINUOUSLY CONTROLLED HEAT RATES UP TO 20-KW/FI WITH HIGH  
PRESSURES AND HIGH CLADDING TEMPERATURE  
COX, C. M. + DECARLO, V. A. + THOMAS, K. R.  
FITTS, R. B. + WEAVER, S. C. + WASHBURN, T. N.  
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LIBBY-COCKCROFT EXCHANGE MEET. IN-PILE MEASUREMENTS CAPSULE  
TECHNOL., COLUMBUS, O., SEPT.15-17,1969
- 11-P9-1108 ANALYSIS OF MIXED OXIDE FUEL PIN PERFORMANCE USING THE FMODEL COMPUTER CODE  
COX, C. M. + HOGAN, F. J.  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1109 ELECTRON BOMBARDMENT INDUCED DESORPTION OF CARBON MONOXIDE FROM POLYCRYSTALLINE TUNGSTEN  
CLAUSING, R. E. + CATLIN, A. + LAWLESS, K. R.  
NATL. VACUUM SYMP., SEATTLE, OCT.28-31,1969
- 11-P9-1110 WELDABILITY OF TUNGSTEN AND TUNGSTEN ALLOYS  
COLE, N. C. + GILLILAND, R. G. + SIAUGHTER, G. M.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1111 FABRICATION OF THORIUM - URANIUM ALLOY FOR THE UNCLAD METAL BREEDER REACTOR FUEL ELEMENT  
COPELAND, G. L. + MARTIN, W. R.  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969

- 11-P9-1112 PERFORMANCE OF PYROLYTIC CARBON COATED URANIUM(IV) OXIDE AND URANIUM DI CARBIDE MICROSPHERES AT HIGH BURNUP  
CUNEO, D. R. + LONG, E. L., JR. + COORS, J. H.  
CONLIN, J. A. + LONGEST, A. W.  
14 + 16  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1113 CORROSION STUDIES OF ADVANCED LMFBR FUEL CLADDING MATERIALS IN SODIUM  
DEVAN, J. H.  
LIBBY-COCKROFT EXCHANGE MEET. CORROSION REACTOR COOLANTS,  
HARWELL, ENGLAND, SEPT.15-17,1969
- 11-P9-1114 COATED PARTICLE FUELS DEVELOPMENT AT ORNL  
COORS, J. H. + SISMAN, D.  
COATED PARTICLE FUELS WORKING GROUP MEET., AEC, LOS ALAMOS, N.M.,  
DEC.10-11,1969
- 11-P9-1115 THE MEASUREMENT AND RELIEF OF RESIDUAL STRESSES IN HASTELLOY-N WELDMENTS  
CEPOLINA, A. G. + CANONICO, D. A.  
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AM. WELD. SOC., NEW ORLEANS, OCT.6-9,1969
- 11-P9-1116 EFFECT OF HIGH VACUUM AND SPECIMEN THICKNESS ON THE CREEP BEHAVIOR OF HAYNES ALLOY NUMBER 25  
BOURGETTE, D. T.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1117 DIRECT BRAZING OF REFRACTORY METALS, CERAMICS, AND GRAPHITE  
CANONICO, D. A. + COLE, N. C. + SLAUGHTER, G. H.  
MET. SOC., AIME, PHILADELPHIA, OCT.12-16,1969
- 11-P9-1118 FAILURE MODEL FOR HFIR TARGET RODS  
ADAMS, R. E.  
AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1119 FABRICATION OF PLUTONIUM(IV) - URANIUM(IV) OXIDE PELLETS BY THE SOL-GEL PROCESS  
BRADLEY, R. A. + SEASE, J. D.  
AM. CERAM. SOC., REG. MEET., SEATTLE, OCT.15-17,1969
- 11-P9-1120 EFFECTS OF IRRADIATION TEMPERATURE ON THE PROPERTIES OF SEVERAL COMPOSITIONS OF INCOLOY-800  
HARMAN, D. G.  
MET. SOC., AIME, PHILADELPHIA, OCT.13-16,1969
- 11-P9-1121 SPECTRA OF DILUTE SOLUTIONS OF BISMUTH METAL IN MOLTEN BISMUTH TRI BROMIDE  
BOSTON, C. R.  
AM. CHEM. SOC., REG. MEET. RICHMOND, VA., NOV.5-8,1969
- 11-P9-1122 PRODUCING ADVANCED FUELS FOR LMFBRs  
LEITNAKER, J. M. + LINDEMER, T. B. + SPEAR, K. E.  
NOTZ, K. J., JR.  
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AM. NUCL. SOC., SAN FRANCISCO, NOV.30-DEC.4,1969
- 11-P9-1123 RECENT DEVELOPMENTS IN MATERIALS RESEARCH  
MARTIN, W. R. + ADAMSON, G. M., JR.  
CUNNINGHAM, J. E.  
AM. NUCL. SOC., SAN JUAN, PUERTO RICO, OCT.1-3,1969
- 11-P9-1124 A NEW LOOK AT NONDESTRUCTIVE TESTING  
MCCLUNG, R. W.  
AM. SOC. NONDESTRUCTIVE TESTING, ANAHEIM, CALIF., NOV.18,1969
- 11-P9-1125 THE PHYSICAL PROPERTIES OF NICKEL(0.75) - IRON(0.25) FROM 80-400K  
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INGLE, R. W., JR. + TODD, J. H. + CRAVEN, C. W., JR.  
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- 13-P9-707 COULOMB EXCITATION OF SAMARIUM-152, ERBIUM-166, ERBIUM-168, ERBIUM-170 AND THORIUM-232  
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- 13-P9-708 HARTREE-FOCK CALCULATIONS OF THE EVEN-EVEN N EQUALS ATOMIC NUMBER NUCLEI  
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- 13-P9-709 RENORMALIZATION OF BRUECKNER-HARTREE-FOCK THEORY WITH SINGLE PARTICLE OCCUPATION PROBABILITIES  
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- 13-P9-717 PHOTOELECTRON SPECTROSCOPY OF FLUORINATED D(3H), T(D), D(INFINITY,H), O(H), AND C(3V) SYMMETRY GROUP COMPOUNDS  
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- 14-B9-14779 DIFFERENTIAL THERMAL ANALYSIS APPARATUS WITH AGITATION AND SEALED SPECIMENS FOR MOLTEN SALT PHASE STUDIES  
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- 14-B9-14811 ELECTRICAL CONDUCTIVITY MEASUREMENTS IN MOLTEN FLUORIDE MIXTURES, AND SOME GENERAL CONSIDERATIONS ON FREQUENCY DISPERSION  
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