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Radiation Laboratory
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Printed for the U. S. Atomic Energy Commission

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Radiation Laboratory
University of California
Berkeley, California

March 18, 1957

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| AERE-M/R-2062 | The Effect of Neutron Irradiation on the Mechanical Properties of Metals. Part II. Molybdenum and Tungsten | J. J. Makin E. Gillies | 9-56 |
| *AERE-X/M-87 | Sintering of Zirconium | Y. C. Chuang Liverpool Univ. | 12-51 |
| *AGC-AE-16 | The Reaction of Molten Metal with Water. Monthly Progress Report [for] February 1 through February 29, 1956 | Aerojet Gen. Corp Azusa, Calif. | 3-29-56 |
| *ARDE(M)-2/56 | An Exposure Calculator for Gamma-Radiography | R. S. Morgan Gt. Brit. Arm. Res. and Dev. Es., Fox Halstead, Kent, England | 2-56 |
| BMI-1160 | Corrosion Studies in Organic Heat-Exchange Media | W. K. Boyd G. L. Ericson O. M. Stewart et al | 1-28-57 |
| CF-57-1-143 | Stress-Corrosion Cracking Problems in the Homogeneous Reactor Test | E. G. Bohlmann G. M. Adamson Oak Ridge Nat'l Lab | 1-31-57 |
| COO-310 | Brazing Beryllium Tubing to High-Temperature Alloy Collars | K. G. Wikle R. Magalski Brush Beryllium Co. | 6-56 |
| HW-40778 | A Rechargeable Pressurized Fuel Element Irradiation Facility | D. C. Kaulitz T. W. Evans | 1-18-57 |
| IGR-R/R-198 | Plastic Flow and the Swelling of Gas Bubbles in Uranium | J. A. Enderby Gt. Brit. Dept. of At. En. Industrial Group H. O., Risley, Lancs, England | 11-56 |
| Misc-1957-62 | Preliminary Investigation of Surface Effects in Flow and Fracture. Technical Report No. 16 | T. L. Johnston E. R. Parker Calif. Univ. Berk. Minerals Res. Lab | 1-57 |

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| Monograph 2681 | Quenched-In Recombination Centers in Silicon. Reprinted from Physical Review <u>102</u> , 567-9 (1956) | G. Bemski Bell Tele. Labs. | 1-57 |
| NYO-3500 | The Welding of Type 347 Steels. Statistical Analysis of Effects of Various Elements on the Crack Sensitivity of Fully Austenitic Type 347 Welds | A. Hoerl T. J. Moore Arcos Corp. Philadelphia | 10-29-56 |
| SEP-213 | Nucleation of Voids in Metals During Diffusion and Creep | R. Resnick L. Seigle Sylvania Elec. Products | 5-24-56 |
| TID-7526(pt. 1) | Metallurgy Information Meeting, Ames Laboratory, Iowa State College, May 2, 3, and 4, 1956 | Ames Lab. | 2-57 |
| *WADC-TR-55-352 | Structural Changes in Commercial Titanium and Titanium-Base Alloys on Heat Treatment | S. A. Spachner R. F. Domagala A. W. Goldenstein et al Ill. Inst. of Tech. | 2-56 |
| *WADC-TR-56-15 | The Effects of Gamma Radiation on Textile Materials | J. McGrath R. H. Johnson Wright Air Dev. Center | 2/56 |
| *WADC-TR-56-99 | Mechanical Property, Corrosion and Welding Studies on 6066 Aluminum Alloy | J. D. Wood same | 6/56 |
| *WADC-TR-56-121 | The Combined Effects of Carbon, Oxygen, Nitrogen and Hydrogen on the Properties of Titanium Sheet Weldments | J. F. Rudy same | 6-56 |
| *WADC-TR-56-146 | Properties of Active Eutectoid Titanium Alloys | R. F. Bunshah H. Margolin New York Univ. | 6-56 |
| *WADC-TR-56-170 | Metallography of Aluminum Powder Extrusions | F. V. Lenel E. C. Nelson G. S. Ansell et al Rensselaier Polytechnic Inst. | 7-56 |
| *WADC-TR-56-190 | A Study of the Possibility of Reinforcing High-Temperature Alloys by Addition of Refractory Powders | J. D. Burney Mallory(p. R.) and Co., Inc. Metallurgical Res. Dept. Indianapolis | 4-18-56 |
| *WAPD-T-313 | Fretting Wear of Zircaloy-2 Pellets in High Temperature Water | L. A. Waldman P. Cohen | 1956 |
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| *WAPD-T-382 | The Effect of Pre-Oxidation in Oxygen on the Steam Corrosion Behavior of Zircaloy-2 | D. E. Thomas S. Kass | 6-13-56 |
| *Y-1137A | Final Report of Explosion in Oak Ridge, Tennessee, Y-12 Salvage Yard Adjacent to Building 9929-1 | | 7-20-56 |

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| AERE-C/R-1901 | Radiations from Water under Beta-Particle Bombardment | E. W. T. Richards | 3-56 |
| *AERE-EL/L-7 | Lecture on Error and Correction in Counter Work, Counter Efficiency, and Source Geometry | R. K. Barnes | |
| AERE-GP/R-2071 | Phase Stability in Cyclotrons with the Fixed Frequency Field Law | L. B. Mullett | 10-56 |
| AERE-GP/R-2072 | Gas Scattering in Proton Synchrotrons | L. B. Mullett | 10-56 |
| AERE-Lib/Trans 667 | Energy Dependence of the Fission Width, by V. G. Nosov. Trans. of Energeticheskaja zavisimost' delitel'noi shirini'i, p. 1-3, 1956 | | |
| *AERE-NP/R-1925 | The Safe Assembly and Operation of the Neutron Booster | M. J. Poole G. D. James | 4-56 |
| *AERE-R/M-8 | Critical Size of Solutions of Fissile Materials in Water | J. D. McCullen | |
| *AERE-RP/M-42 | One-Group Perturbation Theory for Spherically Symmetric Reactors | J. Codd | 6-2-54 |
| *AERE-RP/R-1826 | The Fine Structure Thermal Neutron Distributions in Uranium-Natural Water Lattices. Experimental Results | J. E. C. Mills C. G. Campbell | 4-25-56 |
| *AERE-T/M-46 | Calculation of the Thermal Fine Structure in a Pile with Hollow Rods by the Spherical Harmonics Method | M. E. Mandl | 3-16-51 |
| *AERE-T/R-287 | Measurement of Diffusion Length in a Large Block of Graphite | M. E. Clifford | 1-7-49 |
| AERE-TP/R-2063 | Preliminary Design Parameters for the 6.5 GeV S/R Synchrotron | W. Walkinshaw | 11-56 |
| *AFCRC-TN-56-200 | Effects of the Primary Cosmic Radiation on Matter. Air Force Surveys in Geophysics No. 78 | H. Curtis Cambridge Res. Center | 1-56 |
| *ANL-5634 | Table of $\sin \theta$ and $\sin^2 \theta$ for Values of θ from 2° to 87° | H. A. Plettinger | 3-56 |
| BNL-408 | Twin Channel Count Integrator (EH1-503) | W. A. Higinbotham J. Tillinger | 6-56 |
| *BNL-1575 | ϵ Measurements | H. Kouts G. Price | 2-19-53 |

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| *BRL-1026 | Current-Pulse Testing of Magnetic Cores for Digital Computers | L. F. Silva Ballistic Res. Lab Aberdeen Proving Ground, Md. | 7-56 |
| CERN-PS/FS-3 | Pulsed Proton Source for High Current | F. Schneider | 1-57 |
| HW-47284 | Neutron Energies Calculated for $\text{Be}^9(d, n)\text{B}^{10}$ for Deuterons up to 2 Mev | J. DePangher | 12-17-56 |
| ISC-701 | Magnetic Properties of Holmium and Thulium | B. L. Rhodes S. Legvold F. H. Spedding | 12-55 |
| Misc-1957-57 | On a Non Local Relativistic Quantum Theory of Fields. Notas de Física, Vol. 3, No. 7 | G. Wataghin Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas | 12-20-56 |
| Misc-1957-59 | Interference Phenomena of K^+ -Meson Scattering by Nuclei | D. Fournet Davis [1957] Mass. Inst. of Tech. | |
| Misc-1957-60 | Trilinear Chart of Nuclides. (2nd Edition) | W. H. Sullivan Oak Ridge Nat'l Lab | 1-57 |
| Misc-1957-61 | Frequency Translation by Modulation of Transit-time Devices. Technical Report No. 39 | R. D. Cumming Stanford Univ. | 8-1-55 |
| Monograph 2687 | Naturalness and Distortion in Speech-Processing Devices. Reprinted from Acoustical Society of America, New York. Journal <u>28</u> , 586-9 (1956) | E. E. David, Jr. Bell Telephone | 1-57 |
| Monograph 2689 | Dependence of Electron Reflection on Contamination of the Reflecting Surface. Reprinted from Physical Review <u>102</u> , 1288-9 (1956) | G. A. Harrower same | 1-57 |
| Monograph 2690 | Energy Spectra of Secondary Electrons from Mo and W for Low Primary Energies. Reprinted from Physical Review <u>104</u> , 52-6 (1956) | G. A. Harrower same | 1-57 |
| Monograph 2692 | Observed 5-6 mm Attenuation for the Circular Electric Wave in Small and Medium-Sized Pipes. Reprinted from Bell System Technical Journal <u>35</u> , 1115-29 (1956) | A. P. King same | 1-57 |
| Monograph 2705 | Avalanche Breakdown Voltage in Silicon Diffused p-n Junctions as a Function of Impurity Gradient. Reprinted from Journal of Applied Physics <u>27</u> , 895-9 (1956) | H. S. Veloric M. B. Prince M. J. Eder same | 1-57 |

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| Monograph 2707 | Theory of Plasma Resonance. Reprinted from Physical Review 103, 845-50 (1956) | P. A. Wolf Bell Telephone Labs | 1-57 |
| NAA-SR-1811 | The KEWB Program. Quarterly Progress Report [for] July-September 1956 | | 3-1-57 |
| NEVIS-31 | Lifetime of the Neutral Pion | G. Harris J. Orear S. Taylor Columbia Univ. | |
| NEVIS-33 | Application of a Mechanical Rectifier to a Cyclotron | J. Warren same | 1-57 |
| NEVIS-35 | Parity Nonconservation and a Two-Component Theory of the Neutrino. | T. D. Lee C. N. Yang same | 1-57 |
| NEVIS-36 | Remarks on Noninvariance under Time Reversal and Charge Conjugation | T. D. Lee R. Oehme C. N. Yang same | 1-57 |
| NEVIS-38 | Report on Long-Lived Neutral K-Mesons; the " τ^0 " Particle; Mixtures | K. Lande L. M. Lederman W. Chinowsky same | 2-57 |
| NYO-7533 | The Reactions O^{16} (d, p), (d, a), and (d, d) in the Energy Range 3.4 to 4.2 Mev | E. Baumgartner H. W. Fulbright Rochester, N. Y. Univ. | 2-11-57 |
| NYO-7824 | Consequences of Charge Independence for the Magnetic Moments and Masses of Σ Hyperons | R. Marshak S. Okubo G. Sudarshan same | 1-25-57 |
| *WAL-842/56 | An Equation for the Self Absorption of Beta and Gamma Rays | A. Kant Watertown Arsenal Labs., Mass. | 6-25-56 |
| *WAPD-PM-31 | One-Dimensional Few Group Burnout Code | P. A. Ombrellaro | 11-4-55 |
| *WASH-691 | Reports on International Conference on Nuclear Reactions, Amsterdam, the Netherlands, July 2-7, 1956; Tripartite Conference on Cross Sections of Fissile Nuclei, Harwell England, July 9-13, 1956; Visits to Various European Universities and Installations. | J. L. Fowler Oak Ridge Nat'l Lab. | 1956 |

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| *AERE-C/M-282 | The Gross Gamma-Activity of Fission Product Gases of Short Half-Life | F. J. Stubbs G. N. Walton P. J. Silver | 7-6-56 |
| *AERE-C/M-284 | Some Aspects of Non-Gaseous Fission Products in the Homogeneous Aqueous Reactor | P. C. Davidge C. J. L. Lock | 7-8-56 |
| *AERE-E/M-72 | Steady State Temperature Distributions in a Type of Reactor Channel with Reversal of Coolant Flow | D. V. Wordsworth | 6-22-53 |
| *AERE-ES/M-12 | Lido Research Reactor: Protection of the Concrete from the Corrosive Action of the Water | G. J. C. Nash H. Wells | 6-21-56 |
| *AERE-HP/M-109 | Safe Distances in Reactor Siting | A. C. Chamberlain W. J. Megaw | 4-12-56 |
| *AERE-NURG/M-38 | The Pile-Steam Turbine Combination | O. Pulley | 7-24-52 |
| *AERE-NURG/M-54 | The Choice of Steam Cycle for Use with a Pile | same | 3-12-53 |
| *AERE-R/M-86 | "Zues" Interim Report | R. D. Smith | 8-8-56 |
| *AERE-R/M-87 | Summary of the Investigations in the Thorium Envelope of Zephyr | J. E. R. Holmes | 8-30-56 |
| *AERE-R/M-88 | Temperature Coefficient of Zephyr | B. G. Chapman J. E. R. Holmes H. Rose | 9-19-56 |
| AERE-R/R-2051 | Critical Assemblies of Aqueous Uranyl Fluoride Solutions. Part I. Experimental Techniques and Results | W. G. Clarke C. C. Horton M. F. Smith | 9-20-56 |
| *AERE-T/M-81 | Critical Size of a Bare Homogeneous Sphere Containing Plutonium Water-Coolant and Structural Material | J. P. Elliott | 4-53 |
| ANL-5601 | Reactor Engineering Division Quarterly Report, Section II, [for] April, May, June, 1956 | | 12-56 |
| ANL-5651 | Design Evaluation of BER (Boiling Experimental Reactor) in Regard to Internal Explosions | F. B. Porzel Ill. Inst. of Tech. Armour Res. Foundation | 1-57 |
| *APAE-Memo-31 | Calculation of Residual Activity in APPR-1 Reactor Components After Shutdown. | F. B. Fairbanks D. C. Morse Alco Products, Inc. Schenectady, N. Y. | 6-27-56 |
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| *APAE-Memo-34 | Shielding of Irradiated APPR-1 Fuel Elements | F. B. Fairbanks D. C. Morse Alco Products, Inc. Schenectady, N. Y. | 7-6-56 |
| *APAE-Memo-37 | Calculation of Residual Activity in APPR-1 Shielding Rings after Shutdown | same | 7-16-56 |
| BMI-ACRS-601 (Rev.) | Hazards Summary Report for the Battelle Research Reactor | J. W. Chastain, R. F. Redmond A. Klickman et al | 4-4-55 |
| BNL-421 | The Determination of Power and Temperature Overshot in the Reactor Flash Problem | K. T. Spinney | 11-56 |
| CF-57-1-88 | Secondary Refrigerant for HRT Refrigeration System | R. C. Robertson H. A. McLain Oak Ridge Nat'l Lab. | 1-24-57 |
| DR-22(2nd Rev.) | Chalk River Prospects for Atomic Power | W. B. Lewis Atomic Energy of Canada Chalk River Project | 1-7-57 |
| ORNL-1550(Del) | The Tower Shielding Facility Safeguard Report | L. S. Abbott, ed. Oak Ridge Nat'l Lab | 6-9-53 |
| *WAPD-CE-41 | Thermal Stress Produced by Temperature Transients | B. F. Langer | 7-29-55 |
| *WAPD-S5W-EP-15 | Irradiation of Plastic Fuel Tapes. Part V. | P. A. Nicoll | 2-56 |
| *WAPD-TH-162 | Investigation of the Effect of a Parallel Channel on Flow and Burnout Flux | H. S. Jacket J. D. Roarty G. Sonnemann | 12-6-55 |
| *WAPD-TH-180 | Average and Local Heat Transfer Coefficients for Parallel Flow Through A Rod Bundle | J. R. Parrette R. E. Grimble | 3-13-56 |
| *WASH-679 | Visit to Arnhem, Netherlands | U. M. Staebler | 7-31-56 |
| *WASH-681 | Summary of USSR -Yugoslavia Agreement and Research Reactor | Div. of Reactor same | 7-17-56 |
| *WASH-682 | Visit to the United Kingdom | same | 8-3-56 |
| *WASH-689 | Summary of Meeting on Halden Reactor (Norway) April 26, 1956 | same | 1956 |
| YAEC-13 (Rev. 1) | Quarterly Progress Report for the Period September 30 to December 31, 1956 | Yankee Atomic Elec. Co. Boston | 1-22-57 |
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- *AD-25302 Outline of Research in Life and Fatigue Testing. Final Report
[for] April 1, 1951-January 31, 1954 B. Epstein
Wayne Univ.
- *AD-76224 Design of Optimum Life Test Procedures. Technical Report No. 6 same 9-30-55
- *AERE-HP/R-1782 The Shielding Provided by a Brick House Against the Gamma
Radiation from a Uniformly Deposited Source. Experiments
with Co⁶⁰. N.G. Stewart 10-55
J.M. Chisholm
R.N. Crooks et al
- AERE-MT/N-37 Neutron Radiography J. Thewlis 7-56
R. T. P. Derbyshire
- *AERE-T/M-63 Safety Factors in Plutonium Storage M. B. Biram
K. T. Spinney
- ASTIA-U-118 Title Announcement Bulletin. Bulletin No. U-118 2-4-57
- ASTIA-U-119 Title Announcement Bulletin. Bulletin No. U-119 2-18-57
- BNL-419. Quarterly Progress Report [for] July 1 - September 30, 1956
- M-6091 Reports of Limited Value Tech. In. Service
Extension AEC
- MISC-1957-41 85th Congress , 1st Session, House of Representatives. A Bill
H.R. 5010 to amend Section 161 of the Atomic Energy Act of 1954, Introduced
by Mr. Durham, February 19, 1957 , and Referred to the Joint
Committee on Atomic Energy U. S. Congress
- MISC-1957-41 85th Congress, 1st Session, House of Representatives. A Bill to
H.R. 5320 Amend the Atomic Energy Act of 1954, as Ammended [with Regard
to Cooperation with Berlin,] and for Other Purposes, Introduced
by Mr. Cole, February 26, 1957, and Referred to the Joint
Committee on Atomic Energy same
- MISC-1957-50 Twenty-First Semiannual Report of the Atomic Energy Commission
no. 21 [for the Period July - December, 1956]. AEC 1-57
Washington, D. C.
- ORNL-2234 Instrumentation and Controls Division Semiannual Progress Report
for Period Ending July 31, 1956 2-25-57
- *WASH-672 NDA Visitors to MTR J. R. Huffman 6-10-56
Phillips Petroleum Co.
- *WASH-673 Visit by NDA and Belgian National P. D. Bush 6-15-56
Kaiser Eng. Div.

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| *WASH-680 | Discussions on Nuclear Energy in Austria | U. M. Staebler | 7-31-56 |
| | | Div. of Reactor Dev. | |
| *WASH-683 | Report on Visit to Yugoslavia | same | 7-31-56 |
| *WASH-685 | Visit of Belgian Representatives, July 9, 1956 | S. R. Sapirie | 8-8-56 |
| | | Oak Ridge Opr. Office | |
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LIST OF UNCLASSIFIED TRANSLATIONS ISSUED BY THE UCRL INFORMATION DIVISION

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| UCRL-Translation 298 | Conditions of and Causes for the Depositing of Metals on the Cathode in Spongy Form, by N. T. Kurdryatsev (i. e., Kudriavtsev). Trans. from <i>Soveshchaniia po Elektrokhemii</i> , 1950. Trudy, 258-75 (1953). |
| UCRL Translation 299 | Reactions Produced by μ Mesons in Hydrogen, by Ia. B. Zeldovich. Trans. from <i>Akaemiia Nauk, SSSR. Doklady</i> 95, 493-6 (1954) |
| UCRL Translation 300 | Precision Measurement of Some Proton Resonances, by Franz Bumiller. Trans. of Ph. D. Thesis presented to Zurich. Universitat, [1955 or 6?] |

LIST OF UNCLASSIFIED REPORTS ISSUED BY THE UCRL INFORMATION DIVISION

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| UCRL-3508 | Designing for Safety in Hydrogen Bubble Chambers | H. Paul Hernandez John W. Mark Robert D. Watt | 12-4-56 |
| UCRL-3568 | Absorption Spectra of Aromatic Disulfides | Antonino Fava Melvin Calvin | 10-31-56 |
| UCRL-3590 | The Geneva Cloud Chamber | Wilson M. Powell Larry O. Oswald | 11-30-56 |
| UCRL-3624 | The Electron Spin Resonance Spectrum of Dibenzene Chromium Cation | Robert D. Feltham Power Sogo Melvin Calvin | 12-20-56 |
| UCRL-3629 | Chemistry Division Quarterly Report September, October, November 1956 | | 1-2-57 |
| UCRL-3633 | The Stability of High-Temperature Oxides (Thesis) | Frank T. Greene | 1-14-57 |
| UCRL-3636 | Relativistic Electrodynamics of Rotating Media | John Ise, Jr. | 1-9-57 |

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| UCRL-3650 | Cross Sections of Antiprotons in Hydrogen, Beryllium, Carbon, and Lead | Bruce Cork, Glen R. Lambertson Oreste Piccioni William A. Wenzel | 2-1-57 |
| UCRL-3656 | Direction of Polarization Produced by Quasi-Elastic Scattering of 315-Mev Protons | Hugh Bradner William Isbell | 1-30-57 |
| UCRL-3661 | Decay Properties of Pu ²³⁵ , Pu ²³⁷ , and a New Isotope Pu ²³³ | T. Darrah Thomas Robert Vandebosch Richard A. Glass Glenn T. Seaborg | 2-28-57 |
| UCRL-3678 | The Complexing of Cerium(III), Lanthanum (III) and Gadolinium(III) by Fluoride Ions in Aqueous Solution | J. W. Kury Z. Z. Hugus, Jr. W. M. Latimer | 1-31-57 |
| UCRL-3657 | Theory of High-Energy Deuteron Scattering | Henry P. Stapp | 1-23-57 |
| UCRL-3694 | A Survey of the Radiation Chemistry of Some Aliphatic Ethers | Amos S. Newton | 2-19-57 |
| UCRL-3695 | Energy Levels of Np ²³⁷ Populated by the Beta Decay of U ²³⁷ | J. O. Rasmussen F. L. Canavan J. M. Hollander | 2-20-57 |
| UCRL-3704 | A Possible Test of Time Reversal in Mu-Meson Decay | T. Kotani | 3-4-57 |
| UCRL-3706 | List of Unclassified Reports Received and Issued by the UCRL Information Division During the Period of February 16-28, 1957 | | 3-5-57 |
| UCRL-3709 | A Method for Determining Approximate Magnetic Field Shapes in Small or Inaccessible Regions | Joseph B. Rechen John C. Jordan | 3-6-57 |
| UCRL-3715 | A Possible Test of a Two-Component Theory of the Neutrino | Tsuneyuki Kotani | 3-11-57 |