Neutron Optics An Introduction To The Theory Of Neutron Optical Phenomena And Their Applications

The Physical Theory of Neutron Chain ReactorsIntroduction to the Theory of Neutron DiffusionTheory of Neutron Chain ReactionsThe Theory of Neutron Resonance ReactionsThe Physical Theory of Neutron Chain ReactorsTheory of Neutron Scattering from Condensed Matter: Nuclear scatteringThe Theory of Neutron Slowing Down in Nuclear ReactorsTheory of Neutron Scattering from Condensed MatterIntroduction to the Theory of Thermal Neutron ScatteringTheory of Neutron Chain ReactionsTheory of Neutron Scattering from Condensed MatterTheory of Thermal Neutron ScatteringThe Theory of Neutron Slowing Down in Nuclear ReactorsNuclear Science AbstractsThe Foundations of Neutron Transport TheoryIntroduction to the Theory of Neutron DiffusionNeutron Resonance TheoryNumerical Methods in the Theory of Neutron TransportNeutron Diffusion Theory with Three Energy GroupsTheory of Neutron Chain Reactions Alvin Martin Weinberg K. M. Case Alvin Martin Weinberg John Eric Lynn Alvin M. Weinberg Stephen W. Lovesey Joel H. Ferziger Stephen W. Lovesey G. L. Squires Alvin Martin Weinberg Stephen W. Lovesey Walter Marshall Joel Henry FERZIGER (and ZWEIFEL (P. F.)) Richard K. Osborn Kenneth M. Case Richard N. Hwang Gurīĭ Ivanovich Marchuk Richard Ehrlich

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Neutron Slowing Down in Nuclear Reactors Nuclear Science Abstracts The Foundations of Neutron Transport Theory Introduction to the Theory of Neutron Diffusion Neutron Resonance Theory Numerical Methods in the Theory of Neutron Transport Neutron Diffusion Theory with Three Energy Groups Theory of Neutron Chain Reactions *Alvin Martin Weinberg K. M. Case Alvin Martin Weinberg John Eric Lynn Alvin M. Weinberg Stephen W. Lovesey Joel H. Ferziger Stephen W. Lovesey G. L. Squires Alvin Martin Weinberg Stephen W. Lovesey Walter Marshall Joel Henry FERZIGER (and ZWEIFEL (P. F.)) Richard K. Osborn Kenneth M. Case Richard N. Hwang Gurii Ivanovich Marchuk Richard Ehrlich*

an invaluable up to date reference aid for investigators and researchers this two volume work develops the principles and concepts of statistical physics and quantum chemistry that are the basis for the interpretation of experimental data these volumes build on the author s now standard text theory of neutron scattering oxford university press 1971 and include expanded coverage of nuclear scattering with many sections completely rewritten and updated and many previously unpublished experimental calculations with a greatly expanded bibliography including 200 new references this work will interest graduate students and researchers in physics

the theory of neutron slowing down in nuclear reactors focuses on one facet of nuclear reactor design the slowing down or moderation of neutrons from the high energies with which they are born in fission to the energies at which they are ultimately absorbed in conjunction with the study of neutron moderation calculations of reactor criticality are presented a mathematical description of the slowing down process is given with particular emphasis on the problems encountered in the design of thermal reactors this volume is comprised of four chapters and begins by considering the problems of neutron moderation and their importance in all types of reactors an asymptotic reactor model is described and the calculation of the elastic scattering frequency is explained subsequent chapters focus on the process of slowing down in finite and infinite medium by analyzing capture by individual resonances resonance integrals in heterogeneous systems the slowing down kernels the spherical harmonics method statistical methods and small source theory the final chapter presents numerical solutions of

the boltzmann equation and covers topics such as the multigroup approach group constants and solution of the multigroup equations this book will be a useful resource for nuclear physicists and engineers

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