

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

Introduction to the Theory of Neutron Diffusion  
The Theory of Neutron Resonance Reactions  
Theory of Neutron Scattering from Condensed Matter: Nuclear scattering  
The Theory of Neutron Slowing Down in Nuclear Reactors  
Theory of Neutron Scattering from Condensed Matter  
Theory of Neutron Scattering from Condensed Matter  
Introduction to the Theory of Thermal Neutron Scattering  
Theory of Neutron Chain Reactions  
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The Theory of Neutron Slowing Down in Nuclear Reactors  
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A Simplified Theory of Neutron Attenuation and Its Application to Reactor Shield Design  
The Physical Theory of Neutron Chain Reactors  
Introduction to the Theory of Neutron Diffusion  
Numerical Methods in the Theory of Neutron Transport  
Introduction to the Theory of Thermal Neutron Scattering  
The Foundations of Neutron Transport Theory  
Theory of Neutron Star Magnetospheres  
The Physical Theory of Neutron Chain Reactors  
Introduction to the Theory of Neutron Diffusion  
K. M. Case John Eric Lynn Stephen W. Lovesey Joel H. Ferziger  
Stephen W. Lovesey G. L. Squires Alvin Martin Weinberg  
Walter Marshall Joel Henry FERZIGER (and ZWEIFEL (P. F.))  
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Kenneth M. Case Guri $\otimes$  Ivanovich Marchuk Gordon Leslie Squires Richard K. Osborn  
F. Curtis Michel Alvin Martin Weinberg K. M. Case  
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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include expanded coverage of nuclear scattering with many sections completely rewritten and updated and many previously unpublished experimental calculations with a greatly expanded bibliography including 200 new references this work will interest graduate students and researchers in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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a long awaited reprint of the book that has established itself as the classic textbook on neutron scattering it will be an invaluable introductory text for students taking courses on neutron scattering as well as for researchers and those who would like to deepen their knowledge on the subject through self study

a theory has been developed for the attenuation of neutrons in mixtures of hydrogenous and heavy materials primarily for use in connection with shielding designs the theory is a simplified one which assumes a neutron is essentially lost after a single collision an equivalent cross section which includes contributions to scattering by heavy materials is left adjustable in the theory the procedure outlined in this paper involves comparison of the theory with experimental bulk shielding results to determine the adjustable parameter excellent agreement for shielding purposes has been obtained in this way with experimentally obtained spatial flux distributions for water iron and water and two lead and water shields of differing composition

an incomparable reference for astrophysicists studying pulsars and other kinds of neutron stars theory of neutron star magnetospheres sums up two decades of astrophysical research it provides in one volume the most important findings to date on this topic essential to astrophysicists faced with a huge and widely scattered literature f curtis michel who was among the first theorists to propose a neutron star model for radio pulsars analyzes competing models of pulsars radio emission models winds and jets from pulsars pulsating x ray sources gamma ray burst sources and other neutron star driven phenomena although the book places primary emphasis on theoretical essentials it also provides a considerable introduction to the observational data and its organization michel emphasizes the problems and uncertainties that have arisen in the research as well as the considerable progress that has been made to date

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