

COMPUTATIONAL
METHODS OF
**Neutron
Transport**

E.E. Lewis
W.F. Miller, Jr.

Computational Methods Of Neutron Transport

James Wood



Computational Methods Of Neutron Transport:

Computational Methods of Neutron Transport Elmer Eugene Lewis, W. F. Miller, 1993 This presents a balanced overview of the major methods currently available for obtaining numerical solutions in neutron and gamma ray transport It focuses on methods particularly applicable to the complex problems encountered in the analysis of reactors fusion devices radiation shielding and other nuclear systems It will be valuable as a self contained reference and text to practicing engineers involved in research and development to users of large transport computer codes for engineering analysis and to first year graduate students *Computational Methods in Transport* Frank Graziani, 2006-02-17

There exist a wider range of applications where a significant fraction of the momentum and energy present in a physical problem is carried by the transport of particles Depending on the specific application the particles involved may be photons neutrons neutrinos or charged particles Regardless of which phenomena is being described at the heart of each application is the fact that a Boltzmann like transport equation has to be solved The complexity and hence expense involved in solving the transport problem can be understood by realizing that the general solution to the 3D Boltzmann transport equation is in fact really seven dimensional 3 spatial coordinates 2 angles 1 time and 1 for speed or energy Low order approximations to the transport equation are frequently used due in part to physical justification but many in cases simply because a solution to the full transport problem is too computationally expensive An example is the diffusion equation which effectively drops the two angles in phase space by assuming that a linear representation in angle is adequate Another approximation is the grey approximation which drops the energy variable by averaging over it If the grey approximation is applied to the diffusion equation the expense of solving what amounts to the simplest possible description of transport is roughly equal to the cost of implicit computational fluid dynamics It is clear therefore that for those application areas needing some form of transport fast accurate and robust transport algorithms can lead to an increase in overall code performance and a decrease in time to solution

Computational Methods of Neutron Transport Elmer Eugene Lewis, W. F. Miller, 1984 *A Computational Method for Neutron Transport Problems in Toroidal Geometry*, 1977 **Computational Methods For Two-phase Flow And Particle**

Transport (With Cd-rom) Wen Ho Lee, 2013-03-22 This book describes mathematical formulations and computational methods for solving two phase flow problems with a computer code that calculates thermal hydraulic problems related to light water and fast breeder reactors The physical model also handles the particle and gas flow problems that arise from coal gasification and fluidized beds The second part of this book deals with the computational methods for particle transport

Stochastic Neutron Transport Emma Horton, Andreas E. Kyprianou, 2023-11-15 This monograph highlights the connection between the theory of neutron transport and the theory of non local branching processes By detailing this frequently overlooked relationship the authors provide readers an entry point into several active areas particularly applications related to general radiation transport Cutting edge research published in recent years is collected here for convenient reference

Organized into two parts the first offers a modern perspective on the relationship between the neutron branching process NBP and the neutron transport equation NTE as well as some of the core results concerning the growth and spread of mass of the NBP The second part generalizes some of the theory put forward in the first offering proofs in a broader context in order to show why NBPs are as malleable as they appear to be Stochastic Neutron Transport will be a valuable resource for probabilists and may also be of interest to numerical analysts and engineers in the field of nuclear research Fusion Energy Update ,1986 Micro and Nanostructured Composite Materials for Neutron Shielding Applications Sajith Thottathil Abdulrahman,Sabu Thomas,Zakiah Ahmad,2020-06-30 Micro and Nanostructured Composite Materials for Neutron Shielding Applications presents recent developments and future possibilities for neutron shielding materials Emphasis is placed on the correlation between the morphology shielding mechanisms and other desired properties including their mechanical and thermal properties The effect of neutron absorbing fillers including their size on final properties is also examined as are recent advancements in preparation characterization and simulation techniques Written by specialists in their respective fields this comprehensive resource will help professionals and students understand the fundamentals of neutron shielding as well as the properties of micro and nanopolymer based composites concrete materials alloy materials and metal ceramic composites Provides an up to date understanding of the fundamentals of shielding mechanisms morphology and material property correlations Covers a broad range of micro and nano composite materials for neutron shielding Discusses recent advances surrounding the synthesis and processing of nanostructures and nanocomposite materials **Computational Methods in Reactor Shielding** James Wood,2013-10-22 Computational Methods in Reactor Shielding deals with the mathematical processes involved in how to effectively control the dangerous effect of nuclear radiation Reactor shielding is considered an important aspect in the operation of reactor systems to ensure the safety of personnel and others that can be directly or indirectly affected Composed of seven chapters the book discusses ionizing radiation and how it aids in the control and containment of radioactive substances that are considered harmful to all living things The text also outlines the necessary radiation quantities and units that are needed for a systemic control of shielding and presents an examination of the main sources of nuclear radiation A discussion of the gamma photon cross sections and an introduction to BMIX a computer program used in illustrating a technique in identifying the gamma ray build up factor for a reactor shield are added The selection also discusses various mathematical representations and areas of shielding theory that are being used in radiation shielding The book is of great value to those involved in the development and implementation of systems to minimize and control the dangerous and lethal effect of radiation *Resonance Self-Shielding Calculation Methods in Nuclear Reactors* Liangzhi Cao,Hongchun Wu,Qian Zhang,Qingming He,Tiejun Zu,2022-10-01 Resonance Self Shielding Calculation Methods in Nuclear Reactors presents the latest progress in resonance self shielding methods for both deterministic and Monte Carlo methods including key advances over the last decade such as high fidelity resonance treatment

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