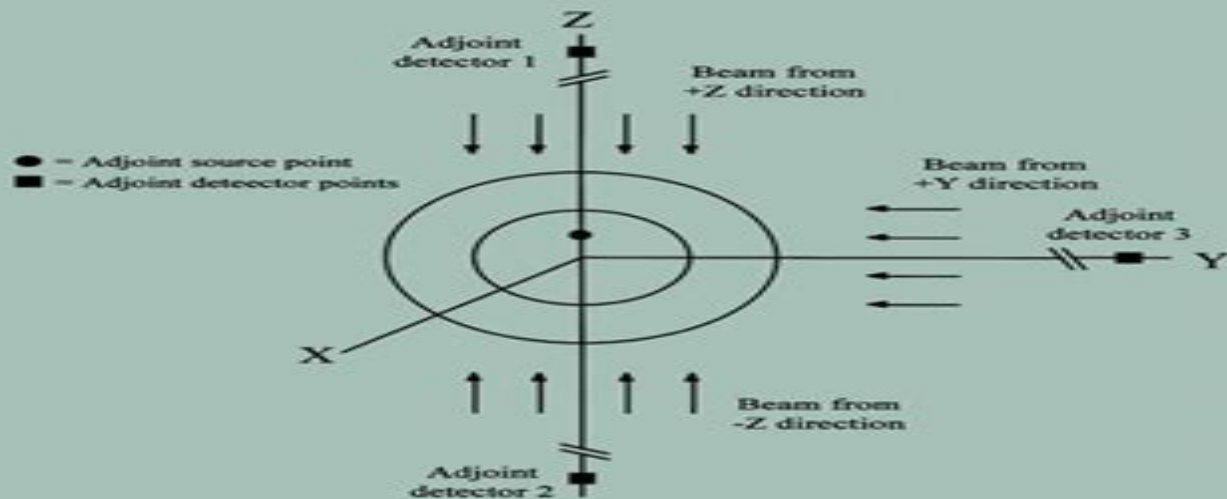


A MONTE CARLO PRIMER

A Practical Approach to Radiation Transport



Stephen A. Dupree
and
Stanley K. Fraley

A Monte Carlo Primer A Practical Approach To Radiation Transport

Zhe Xu



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Fraley, 2012-09-07 The mathematical technique of Monte Carlo as applied to the transport of sub atomic particles has been described in numerous reports and books since its formal development in the 1940s Most of these instructional efforts have been directed either at the mathematical basis of the technique or at its practical application as embodied in the several large formal computer codes available for performing Monte Carlo transport calculations This book attempts to fill what appears to be a gap in this Monte Carlo literature between the mathematics and the software Thus while the mathematical basis for Monte Carlo transport is covered in some detail emphasis is placed on the application of the technique to the solution of practical radiation transport problems This is done by using the PC as the basic teaching tool This book assumes the reader has a knowledge of integral calculus neutron transport theory and Fortran programming It also assumes the reader has available a PC with a Fortran compiler Any PC of reasonable size should be adequate to reproduce the examples or solve the exercises contained herein The authors believe it is important for the reader to execute these examples and exercises and by doing so to become accomplished at preparing appropriate software for solving radiation transport problems using Monte Carlo The step from the software described in this book to the use of production Monte Carlo codes should be straightforward *A Monte Carlo Primer* Stephen A. Dupree, Stanley K. Fraley, 2012-12-06 In Volume 1 *A Monte Carlo Primer A Practical Approach to Radiation Transport* the Primer we attempt to provide a simple convenient and step by step approach to the development basic understanding and use of Monte Carlo methods in radiation transport Using the PC the Primer begins by developing basic Monte Carlo codes to solve simple transport problems then introduces a teaching tool

the Probabilistic Framework Code PFC as a standard platform for assembling testing and executing the various Monte Carlo techniques that are presented This second volume attempts to continue this approach by using both custom Monte Carlo codes and PFC to apply the concepts explained in the Primer to obtain solutions to the exercises given at the end of each chapter in the Primer A relatively modest number of exercises is included in the Primer Some ambiguity is left in the statement of many of the exercises because the intent is not to have the user write a particular uniquely correct piece of coding that produces a specific number as a result but rather to encourage the user to think about the problems and develop further the concepts explained in the text Because in most cases there is more than one way to solve a Monte Carlo transport problem we believe that working with the concepts illustrated by the exercises is more important than obtaining anyone particular solution

Monte Carlo Methods Malvin H. Kalos, Paula A. Whitlock, 2009-06-10 This introduction to Monte Carlo methods seeks to identify and study the unifying elements that underlie their effective application Initial chapters provide a short treatment of the probability and statistics needed as background enabling those without experience in Monte Carlo techniques to apply these ideas to their research The book focuses on two basic themes The first is the importance of random walks as they occur both in natural stochastic systems and in their relationship to integral and differential equations The second theme is that of variance reduction in general and importance sampling in particular as a technique for efficient use of the methods Random walks are introduced with an elementary example in which the modeling of radiation transport arises directly from a schematic probabilistic description of the interaction of radiation with matter Building on this example the relationship between random walks and integral equations is outlined The applicability of these ideas to other problems is shown by a clear and elementary introduction to the solution of the Schrödinger equation by random walks The text includes sample problems that readers can solve by themselves to illustrate the content of each chapter This is the second completely revised and extended edition of the successful monograph which brings the treatment up to date and incorporates the many advances in Monte Carlo techniques and their applications while retaining the original elementary but general approach

Handbook on Radiation Probing, Gauging, Imaging and Analysis E.M. Hussein, 2006-05-05 The need for this book arose from my teaching engineering and search experience in the non power aspects of nuclear technology The lack of a comprehensive textbook in industrial applications of radiation frustrated my students who had to resort to a multitude of textbooks and research publications to familiarize themselves with the fundamental and practical aspects of radiation technology As an engineer I had to acquire the design aspects of radiation devices by trial and error and often by accidental reading of a precious publication As a researcher and a supervisor of graduate students I found that the needed literature was either hard to find or too scattered and diverse More than once I discovered that what appeared to be an exciting new idea was an old concept that was tried a few decades earlier during the golden era of Atom for Peace I am hoping therefore that this book will serve as a single comprehensive reference source in a growing field that I expect will continue to expand

This book is directed to both neophytes and experts and is written to combine the old and the new the basic and the advanced the simple and the complex It is anticipated that this book will be of help in living older concepts improving and expanding existing techniques and promoting the development of new ones

Theory of Semiconductor Quantum Devices Fausto Rossi,2011-01-13 Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials The book will cover within a common language different types of optoelectronic nanodevices including quantum cascade laser sources and detectors few electron exciton quantum devices and semiconductor based quantum logic gates The distinguishing feature of the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultrasmall space and time scales as well as of their semiclassical counterparts

Blackbody Radiometry Victor Sapritsky,Alexander Prokhorov,2020-10-19 This book the first of a two volume set focuses on the basic physical principles of blackbody radiometry and describes artificial sources of blackbody radiation widely used as sources of optical radiation whose energy characteristics can be calculated on the base of fundamental physical laws Following a review of radiometric quantities radiation laws and radiative heat transfer it introduces the basic principles of blackbody radiators design details of their practical implementation and methods of measuring their defining characteristics as well as metrological aspects of blackbody based measurements Chapters are dedicated to the effective emissivity concept methods of increasing effective emissivities their measurement and modeling using the Monte Carlo method techniques of blackbody radiators heating cooling isothermalization and measuring their temperature An extensive and comprehensive reference source this book is of considerable value to students researchers and engineers involved in any aspect of blackbody radiometry

Campaigning with the 67th Indiana 1864 William A.. McMillan,2006 After the Union regained control of the Mississippi River in the summer of 1863 President Lincoln ordered the commander of the Department of the Gulf Major General Nathaniel P Banks to Plant the Flag in Texas To assist in this endeavor the XIII Corps was transferred to Banks department This brought Private William A McMillan of the 67th Indiana to Louisiana McMillan s diary which covers the period from late December 1863 through the end of 1864 describes his participation in the occupation of the coast of Texas the Red River Campaign the capture of the forts guarding the entrance to Mobile Bay and actions in Louisiana and Arkansas

Advances in Computers Marvin Zelkowitz,2011-09-21 Advances in Computers covers new developments in computer technology Most chapters present an overview of a current subfield within computers with many citations and often include new developments in the field by the authors of the individual chapters Topics include hardware software theoretical underpinnings of computing and novel applications of computers This current volume includes six chapters on nanotechnology emphasizing its use in biological applications The book series is a valuable addition to university courses that emphasize the topics under discussion in that particular volume as well as belonging on

the bookshelf of industrial practitioners who need to implement many of the technologies that are described Nanotechnology in biology Development of miniature computing devices Social and legal implications of nanotechnology **The Physics of Nuclear Reactors** Serge Marguet, 2018-02-26 This comprehensive volume offers readers a progressive and highly detailed introduction to the complex behavior of neutrons in general and in the context of nuclear power generation A compendium and handbook for nuclear engineers a source of teaching material for academic lecturers as well as a graduate text for advanced students and other non experts wishing to enter this field it is based on the author s teaching and research experience and his recognized expertise in nuclear safety After recapping a number of points in nuclear physics placing the theoretical notions in their historical context the book successively reveals the latest quantitative theories concerning The slowing down of neutrons in matter The charged particles and electromagnetic rays The calculation scheme especially the simplification hypothesis The concept of criticality based on chain reactions The theory of homogeneous and heterogeneous reactors The problem of self shielding The theory of the nuclear reflector a subject largely ignored in literature The computational methods in transport and diffusion theories Complemented by more than 400 bibliographical references some of which are commented and annotated and augmented by an appendix on the history of reactor physics at EDF Electricit De France this book is the most comprehensive and up to date introduction to and reference resource in neutronics and reactor theory

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