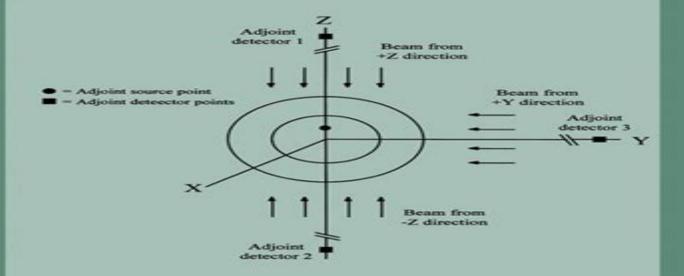
# A MONTE CARLO PRIMER

# A Practical Approach to Radiation Transport



Stephen A. Dupree and Stanley K. Fraley

# A Monte Carlo Primer A Practical Approach To Radiation Transport

**Victor Sapritsky, Alexander Prokhorov** 

#### A Monte Carlo Primer A Practical Approach To Radiation Transport:

A Monte Carlo Primer Stephen A. Dupree, Stanley K. Fraley, 2002 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, 2012-09-07 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 Schr dinger 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 fundam tal 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 viving 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

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