

A MONTE CARLO PRIMER

Volume 2



Stephen A. Dupree
and
Stanley K. Fraley



A Monte Carlo Primer Volume

Robert R. Redfield



A Monte Carlo Primer Volume :

A Monte Carlo Primer Stephen A. Dupree, Stanley K. Fraley, 2004-05-01 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

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

Handbook of Nuclear Medicine and Molecular Imaging for Physicists Michael Ljungberg, 2022-02-08 Mathematical modelling is an important part of nuclear medicine Therefore several chapters of this book have been dedicated towards describing this topic In these chapters an emphasis has been put on describing the mathematical modelling of the radiation transport of photons and electrons as well as on the transportation of radiopharmaceuticals between different organs and compartments It also includes computer models of patient dosimetry Two chapters of this book are devoted towards

introducing the concept of biostatistics and radiobiology These chapters are followed by chapters detailing dosimetry procedures commonly used in the context of diagnostic imaging as well as patient specific dosimetry for radiotherapy treatments For safety reasons many of the methods used in nuclear medicine and molecular imaging are tightly regulated Therefore this volume also highlights the basic principles for radiation protection It discusses the process of how guidelines and regulations aimed at minimizing radiation exposure are determined and implemented by international organisations Finally this book describes how different dosimetry methods may be utilized depending on the intended target including whole body or organ specific imaging as well as small scale to cellular dosimetry This text will be an invaluable resource for libraries institutions and clinical and academic medical physicists searching for a complete account of what defines nuclear medicine The most comprehensive reference available providing a state of the art overview of the field of nuclear medicine Edited by a leader in the field with contributions from a team of experienced medical physicists chemists engineers scientists and clinical medical personnel Includes the latest practical research in the field in addition to explaining fundamental theory and the field s history 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 living older concepts improving and expanding existing techniques and promoting the development of new ones 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 **Single-Ion Solvation** Philippe Hunenberger,Maria Reif,2015-10-20 Ions are ubiquitous in chemical technological ecological and biological processes

Characterizing their role in these processes in the first place requires the evaluation of the thermodynamic parameters associated with the solvation of a given ion. However, due to the constraint of electroneutrality, the involvement of surface effects and the ambiguous connection between microscopic and macroscopic descriptions, the determination of single ion solvation properties via both experimental and theoretical approaches has turned out to be a very difficult and highly controversial problem. This unique book provides an up to date compact and consistent account of the research field of single ion solvation thermodynamics that has over one hundred years of history and still remains largely unsolved. By reviewing the various approaches employed to date, establishing the relevant connections between single ion thermodynamics and electrochemistry, resolving conceptual ambiguities and giving an exhaustive data compilation in the context of alkali and halide hydration, this book provides a consistent synthesis in depth understanding and clarification of a large and sometimes very confusing research field. The book is primarily aimed at researchers, professors, postgraduates, graduates and industrial researchers concerned with processes involving ionic solvation properties; these are ubiquitous, e.g. in physical organic, analytical chemistry, electrochemistry, biochemistry, pharmacology, geology and ecology. Because of the concept definitions and data compilations it contains, it is also a useful reference book to have in a university library. Finally, it may be of general interest to anyone wanting to learn more about ions and solvation. Key features: discusses both experimental and theoretical approaches and establishes the connection between them; provides both an account of the past research covering over one hundred years and a discussion of current directions; in particular, on the theoretical side, involves a comprehensive reference list of over 2000 citations; employs a very consistent notation including table of symbols and unambiguous definitions of all introduced quantities; provides a discussion and clarification of ambiguous concepts, i.e. concepts that have not been defined clearly or have been defined differently by different authors, leading to confusion in past literature; encompasses an exhaustive data compilation in the restricted context of alkali and halide hydration along with recommended values after critical analysis; of this literature data is illustrated by a number of synoptic colour figures that will help the reader to grasp the connections between different concepts in one single picture.

A Monte Carlo Primer Stephen A. Dupree, Stanley K. Fraley, 2001-12-31. 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

Practical Aspects of Computational Chemistry I Jerzy Leszczynski, Manoj Shukla, 2012-01-02

Practical Aspects of Computational Chemistry I An Overview of the Last Two Decades and Current Trends gathers the advances made within the last 20 years by well known experts in the area of theoretical and computational chemistry and physics The title itself reflects the celebration of the twentieth anniversary of the Conference on Current Trends in Computational Chemistry CCTCC to which all authors have participated and contributed to its success This volume poses and answers important questions of interest to the computational chemistry community and beyond What is the historical background of the Structural Chemistry Is there any way to avoid the problem of intruder state in the multi reference formulation What is the recent progress on multi reference coupled cluster theory Starting with a historical account of structural chemistry the book focuses on the recent advances made in promising theories such as many body Brillouin Wigner theory multireference state specific coupled cluster theory relativistic effect in chemistry linear and nonlinear optical properties of molecules solution to Kohn Sham problem electronic structure of solid state materials development of model core potential quantum Monte Carlo method nano and molecular electronics dynamics of photodimerization and excited states intermolecular interactions hydrogen bonding and non hydrogen bonding interactions conformational flexibility metal cations in zeolite catalyst and interaction of nucleic acid bases with minerals

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Handbook of Anatomical Models for Radiation Dosimetry Xie George Xu, Keith F. Eckerman, 2009-09-01 Over the past few decades the radiological science community has developed and applied numerous models of the human body for radiation protection diagnostic imaging and nuclear medicine therapy The Handbook of Anatomical Models for Radiation Dosimetry provides a comprehensive review of the development and application of these computational mode

Microfluidics for Biotechnology Jean Berthier, Pascal Silberzan, 2010 The application of microfluidics to biotechnology is an exciting new area that has already begun to revolutionize how researchers study and manipulate macromolecules like DNA proteins and cells in vitro and within living organisms Now in a newly revised and expanded second edition the Artech House bestseller Microfluidics for Biotechnology brings you to the cutting edge of this burgeoning field Among the numerous updates the second edition features three entirely new chapters on non dimensional numbers in

microfluidics interface capillarity and microdrops and digital two phase and droplet microfluidics Presenting an enlightening balance of numerical approaches theory and experimental examples this book provides a detailed look at the mechanical behavior of the different types of micro nano particles and macromolecules that are used in biotechnology You gain a solid understanding of microfluidics theory and the mechanics of microflows and microdrops The book examines the diffusion of species and nanoparticles including continuous flow and discrete Monte Carlo methods This unique volume describes the transport and dispersion of biochemical species and particles You learn how to model biochemical reactions including DNA hybridization and enzymatic reactions Moreover the book helps you master the theory applications and modeling of magnetic beads behavior and provides an overview of self assembly and magnetic composite Other key topics include the electric manipulation of micro nanoparticles and macromolecules and the experimental aspects of biological macromolecule manipulation

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