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Exploring Monte Carlo Methods Jan 23 2022 Exploring Monte Carlo Methods is a basic text that describes the numerical methods that have come to be known as "Monte Carlo." The book treats the subject generically through the first eight chapters and, thus, should be of use to anyone who wants to learn to use Monte Carlo. The next two chapters focus on applications in nuclear engineering, which are illustrative of uses in other fields. Five appendices are included, which provide useful information on probability distributions, general-purpose Monte Carlo codes for radiation transport, and other matters. The famous "Buffon's needle problem" provides a unifying theme as it is repeatedly used to illustrate many features of Monte Carlo methods. This book provides the basic detail necessary to learn how to apply Monte Carlo methods and thus should be useful as a text book for undergraduate or graduate courses in numerical methods. It is written so that interested readers with only an understanding of calculus and differential equations can learn Monte Carlo on their own. Coverage of topics such as variance reduction, pseudo-random number generation, Markov chain Monte Carlo, inverse Monte Carlo, and linear operator equations will make the book useful even to experienced Monte Carlo practitioners. Provides a concise treatment of generic Monte Carlo methods Proofs for each chapter Appendixes include Certain mathematical functions; Bose Einstein functions, Fermi Dirac functions, Watson functions

Monthly Catalog of United States Government Publications Dec 22 2021

Handbook of Anatomical Models for Radiation Dosimetry Jul 17 2021 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 models, known as "phantoms." An ambitious and unparalleled project, this pioneering work is the result of several years of planning and preparation involving 64 authors from across the world. It brings together recommendations and information sanctioned by the International Commission on Radiological Protection (ICRP) and documents 40 years of history and the progress of those involved with cutting-edge work with Monte Carlo Codes and radiation protection dosimetry. This volume was in part spurred on by the ICRP's key decision to adopt voxelized computational phantoms as standards for radiation protection purposes. It is an invaluable reference for those working in that area as well as those employing or developing anatomical models for a number of clinical applications. Assembling the work of nearly all major phantom developers around the world, this volume examines: The history of the research and development in computational phantoms Detailed accounts for each of the well-known phantoms, including the MIRD-5, GSF Voxel Family Phantoms, NCAT, UF Hybrid Pediatric Phantoms, VIP-Man, and the latest ICRP Reference Phantoms Physical phantoms for experimental radiation dosimetry The smallest voxel size (0.2 mm), phantoms developed from the Chinese Visible Human Project Applications for radiation protection dosimetry involving environmental, nuclear power plant, and internal contamination exposures Medical applications, including nuclear medicine therapy, CT examinations, x-ray radiological image optimization, nuclear medicine imaging, external photon and proton treatments, and management of respiration in modern image-guided radiation treatment Patient-specific phantoms used for radiation treatment planning involving two Monte Carlo code systems: GEANT4 and EGS Future needs for research and development Related data sets are available for download on the authors' website. The breadth and depth of this work enables readers to obtain a unique sense of the complete scientific process in computational phantom development, from the conception of an idea, to the identification of original anatomical data, to solutions of various computing problems, and finally, to the ownership and sharing of results in this groundbreaking field that holds so much promise.

Catalog of National Bureau of Standards Publications, 1966-1976: pt. 1-2. Key word index Nov 28 2019

Nuclear Science Abstracts Jun 27 2022

ERDA Research Abstracts Mar 25 2022

Cars & Parts Mar 01 2020

Monthly Catalogue, United States Public Documents Sep 06 2020

Monte Carlo N-particle Simulations for Nuclear Detection and Safeguards Sep 26 2019 This open access book is a pedagogical, examples-based guide to using the Monte Carlo N-Particle (MCNPa) code for nuclear safeguards and non-proliferation applications. The MCNP code, general-purpose software for particle transport simulations, is widely used in the field of nuclear safeguards and non-proliferation for numerous applications including detector design and calibration, and the study of scenarios such as measurement of fresh and spent fuel. This book fills a gap in the existing MCNP software literature by teaching MCNP software usage through detailed examples that were selected based on both student feedback and the real-world experience of the nuclear safeguards group at Los Alamos National Laboratory. MCNP input and output files are explained, and the technical details used in MCNP input file preparation are linked to the MCNP code manual. Benefiting from the authors' decades of experience in MCNP simulation, this book is essential reading for students, academic researchers, and practitioners whose work in nuclear physics or nuclear engineering is related to non-proliferation or nuclear safeguards. Each chapter comes with downloadable input files for the user to easily reproduce the examples in the text.

NBS Special Publication Jan 29 2020

Books and Pamphlets, Including Serials and Contributions to Periodicals Apr 13 2021

Amazon Kindle Fire Hd 10 User Guide May 03 2020 Hello there! Are you the new owner of a Kindle Fire 10, or thinking about purchasing one? If so, this book is your ultimate guide to what to expect with this device. The latest version of the Kindle Fire is ideal for reading eBooks, viewing online content, sending emails, talking on Skype, and playing games. You will learn about what using this device is like to help you with a purchase decision, and you will learn how to set up the device when you buy it. You will also learn how to troubleshoot and fix problems with the device. After all is said and done, you will be an expert on using the Amazon Kindle Fire 10! Get started by clicking the BUY NOW button at the top of this page!

Radiative Heat Transfer Mar 13 2021 The third edition of Radiative Heat Transfer describes the basic physics of radiation heat transfer. The book provides models, methodologies, and calculations essential in solving research problems in a variety of industries, including solar and nuclear energy, nanotechnology, biomedical, and environmental. Every chapter of Radiative Heat Transfer offers uncluttered nomenclature, numerous worked examples, and a large number of problems—many based on real world situations—making it ideal for classroom use as well as for self-study. The book's 24 chapters cover the four major areas in the field: surface properties; surface transport; properties of participating media; and transfer through participating media. Within each chapter, all analytical methods are developed in substantial detail, and a number of examples show how the developed relations may be applied to practical problems. Extensive solution manual for adopting instructors Most complete text in the field of radiative heat transfer Many worked examples and end-of-chapter problems Large number of computer codes (in Fortran and C++), ranging from basic problem solving aids to sophisticated research tools Covers experimental methods

Monthly Catalog of United States Government Publications Nov 20 2021 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

Catalog of Copyright Entries, Third Series Dec 10 2020 The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim (the name of the copyright claimant as given in the application for registration, the copyright date, the copyright registration number, etc.).

Code of Federal Regulations Jun 03 2020 Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

Research in Education Nov 08 2020

Transportation Systems Center Bibliography of Technical Reports; January - December 1978 Jun 15 2021

Handbook of Radiotherapy Physics Aug 06 2020 From the essential background physics and radiobiology to the latest imaging and treatment modalities, the updated second edition of Handbook of Radiotherapy Physics: Theory & Practice covers all aspects of the subject. In Volume 1, Part A includes the Interaction of Radiation with Matter (charged particles and photons) and the Fundamentals of Dosimetry with an extensive section on small-field physics. Part B covers Radiobiology with increased emphasis on hypofractionation. Part C describes Equipment for Imaging and Therapy including MR-guided linear accelerators. Part D on Dose Measurement includes chapters on ionisation chambers, solid-state detectors, film and gels, as well as a detailed description and explanation of Codes of Practice for Reference Dose Determination including detector correction factors in small fields. Part E describes the properties of Clinical (external) Beams. The various methods (or 'algorithms') for Computing Doses in Patients irradiated by photon, electron and proton beams are described in Part F with increased emphasis on Monte-Carlo-based and grid-based deterministic algorithms. In Volume 2, Part G covers all aspects of Treatment Planning including CT-, MR- and Radionuclide-based patient imaging, Intensity-Modulated Photon Beams, Electron and Proton Beams, Stereotactic and Total Body Irradiation and the use of the dosimetric and radiobiological metrics TCP and NTCP for plan evaluation and optimisation. Quality Assurance fundamentals with application to equipment and processes are covered in Part H. Radionuclides, equipment and methods for Brachytherapy and Targeted Molecular Therapy are covered in Parts I and J, respectively. Finally,

Part K is devoted to Radiation Protection of the public, staff and patients. Extensive tables of Physical Constants, Photon, Electron and Proton Interaction data, and typical Photon Beam and Radionuclide data are given in Part L. Edited by recognised authorities in the field, with individual chapters written by renowned specialists, this second edition of Handbook of Radiotherapy Physics provides the essential up-to-date theoretical and practical knowledge to deliver safe and effective radiotherapy. It will be of interest to clinical and research medical physicists, radiation oncologists, radiation technologists, PhD and Master's students.

The SPOC Manual: 2. MATBAL computer program Apr 01 2020

The Software Encyclopedia Jun 23 2019

Catalog of Copyright Entries. Third Series Aug 30 2022

Catalog of National Bureau of Standards Publications, 1966-1976 Oct 27 2019

A User's Manual to the PMBOK Guide Jul 29 2022 The professional standard in the field of project management, A Guide to the Project Management Body of Knowledge better known as the PMBOK® Guide published by the Project Management Institute (PMI®) serves as the ultimate resource for professionals and as a valuable studying and training device for students taking the PMP® exam. A User's Manual to the PMBOK® Guide takes the next logical step to act as a true user's manual. Its accessible format and easy-to-understand language helps to not only distill essential information contained in the PMBOK® Guide-Fourth Edition, but also fills an educational gap by offering instruction on how to apply its various tools and techniques. This book: Defines each project management process in the PMBOK® Guide-Fourth Edition, describes their intent, and discusses their individual ITTOs (inputs, tools and techniques, and outputs) Features examples, handy tips, and sample forms to supplement learning Is written by the author who was project manager of the PMBOK® Guide-Fourth Edition Contains a data flow diagram of each process in the PMBOK® Guide-Fourth Edition to show how information is distributed A User's Manual to the PMBOK® Guide simplifies the PMBOK® Guide-Fourth Edition to provide the springboard from which successful project management processes are interpreted and carried out in the real world. Thorough in coverage and rich in content, this manual is a worthy companion to augment the important strategies laid out in the PMBOK® Guide Fourth Edition—and the one book that aspiring or professional project managers should never be without. (PMBOK, PMI, PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Chevrolet Monte Carlo Nov 01 2022

Subjective and Objective Bayesian Statistics Jul 05 2020 Shorter, more concise chapters provide flexible coverage of the subject. Expanded coverage includes: uncertainty and randomness, prior distributions, predictivism, estimation, analysis of variance, and classification and imaging. Includes topics not covered in other books, such as the de Finetti Transform. Author S. James Press is the modern guru of Bayesian statistics.

Advances in Numerical Heat Transfer, Volume 2 Oct 20 2021 This volume discusses the advances in numerical heat transfer modeling by applying high-performance computing resources, striking a balance between generic fundamentals, specific fundamentals, generic applications, and specific applications.

Catalog of Copyright Entries Sep 18 2021

Energy Research Abstracts Apr 25 2022

Resources in Education Feb 09 2021

Handbook of Particle Detection and Imaging Aug 18 2021 The handbook centers on detection techniques in the field of particle physics, medical imaging and related subjects. It is structured into three parts. The first one is dealing with basic ideas of particle detectors, followed by applications of these devices in high energy physics and other fields. In the last part the large field of medical imaging using similar detection techniques is described. The different chapters of the book are written by world experts in their field. Clear instructions on the detection techniques and principles in terms of relevant operation parameters for scientists and graduate students are given. Detailed tables and diagrams will make this a very useful handbook for the application of these techniques in many different fields like physics, medicine, biology and other areas of natural science.

Publications of the National Bureau of Standards ... Catalog Dec 30 2019

RENEW V3.2 User's Manual, Maintenance Estimation Simulation for Space Station Freedom Program Sep 30 2022

A Beginner's Guide to Structural Equation Modeling May 15 2021 Noted for its crystal clear explanations, this book is considered the most comprehensive introductory text to structural equation modeling (SEM). Noted for its thorough review of basic concepts and a wide variety of models, this book better prepares readers to apply SEM to a variety of research questions. Programming details and the use of algebra are kept to a minimum to help readers easily grasp the concepts so they can conduct their own analysis and critique related research. Featuring a greater emphasis on statistical power and model validation than other texts, each chapter features key concepts, examples from various disciplines, tables and figures, a summary, and exercises. Highlights of the extensively revised 4th edition include: -Uses different SEM software (not just Lisrel) including Amos, EQS, LISREL, Mplus, and R to demonstrate applications. -Detailed introduction to the statistical methods related to SEM including correlation, regression, and factor analysis to maximize understanding (Chs. 1 - 6). -The 5 step approach to modeling data (specification, identification, estimation, testing, and modification) is now covered in more detail and prior to the modeling chapters to provide a more coherent view of how to create models and interpret results (ch. 7). -More discussion of hypothesis testing, power, sampling, effect sizes, and model fit, critical topics for beginning modelers (ch. 7). - Each model chapter now focuses on one technique to enhance understanding by providing more description, assumptions, and interpretation of results, and an

exercise related to analysis and output (Chs. 8 -15). -The use of SPSS AMOS diagrams to describe the theoretical models. -The key features of each of the software packages (Ch. 1). -Guidelines for reporting SEM research (Ch. 16). -www.routledge.com/9781138811935 which provides access to data sets that can be used with any program, links to other SEM examples, related readings, and journal articles, and more. Reorganized, the new edition begins with a more detailed introduction to SEM including the various software packages available, followed by chapters on data entry and editing, and correlation which is critical to understanding how missing data, non-normality, measurement, and restriction of range in scores affects SEM analysis. Multiple regression, path, and factor models are then reviewed and exploratory and confirmatory factor analysis is introduced. These chapters demonstrate how observed variables share variance in defining a latent variables and introduce how measurement error can be removed from observed variables. Chapter 7 details the 5 SEM modeling steps including model specification, identification, estimation, testing, and modification along with a discussion of hypothesis testing and the related issues of power, and sample and effect sizes. Chapters 8 to 15 provide comprehensive introductions to different SEM models including Multiple Group, Second-Order CFA, Dynamic Factor, Multiple-Indicator Multiple-Cause, Mixed Variable and Mixture, Multi-Level, Latent Growth, and SEM Interaction Models. Each of the 5 SEM modeling steps is explained for each model along with an application. Chapter exercises provide practice with and enhance understanding of the analysis of each model. The book concludes with a review of SEM guidelines for reporting research. Designed for introductory graduate courses in structural equation modeling, factor analysis, advanced, multivariate, or applied statistics, quantitative techniques, or statistics II taught in psychology, education, business, and the social and healthcare sciences, this practical book also appeals to researchers in these disciplines. Prerequisites include an introduction to intermediate statistics that covers correlation and regression principles.

Scientific and Technical Aerospace Reports Feb 21 2022 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

ACARA User's Manual Aug 25 2019

Technical Guidance Manual for Developing Total Maximum Daily Loads Jan 11 2021

ERDA Energy Research Abstracts May 27 2022

CONFID User's Manual Jul 25 2019

Keywords Index to U.S. Government Technical Reports Oct 08 2020

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