

Stochastic Simulation And Monte Carlo Methods Mathematical Foundations Of Stochastic Simulation Stochastic Modelling And Applied Probability

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a revolutionary book that for the first time provided a rigorous mathematical framework for quantum mechanics
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the book is very different from other books devoted to quantum field theory both in the style of exposition and in the choice of topics written for both mathematicians and physicists the author explains the theoretical formulation with a

mixture of rigorous proofs and heuristic arguments references are given for those who are looking for more details the author is also careful to avoid ambiguous definitions and statements that can be found in some physics textbooks in terms of topics almost all other books are devoted to relativistic quantum field theory conversely this book is concentrated on the material that does not depend on the assumptions of lorentz invariance and or locality it contains also a chapter discussing application of methods of quantum field theory to statistical physics in particular to the derivation of the diagram techniques that appear in thermo field dynamics and keldysh formalism it is not assumed that the reader is familiar with quantum mechanics the book contains a short introduction to quantum mechanics for mathematicians and an appendix devoted to some mathematical facts used in the book publisher s description

this unique textbook offers a mathematically rigorous presentation of the theory of relativity emphasizing the need for a critical analysis of the foundations of general relativity in order to best study the theory and its implications the transitions from classical mechanics to special relativity and then to general relativity are explored in detail as well helping readers to gain a more profound and nuanced understanding of the theory as a whole after reviewing the fundamentals of differential geometry and classical mechanics the text introduces special relativity first using the physical approach proposed by einstein and then via minkowski s mathematical model the authors then address the relativistic thermodynamics of continua and electromagnetic fields in matter topics which are normally covered only very briefly in other treatments in the next two chapters the text then turns to a discussion of general relativity by means of the authors unique critical approach underlining the difficulty of recognizing the physical meaning of some statements such as the physical meaning of coordinates and the derivation of physical quantities from those of space

time chapters in this section cover the model of space time proposed by schwarzschild black holes the friedman equations and the different cosmological models they describe and the fermi walker derivative well suited for graduate students in physics and mathematics who have a strong foundation in real analysis classical mechanics and general physics this textbook is appropriate for a variety of graduate level courses that cover topics in relativity additionally it will interest physicists and other researchers who wish to further study the subtleties of these theories and understand the contemporary scholarly discussions surrounding them

this graduate level text introduces fundamentals of classical mechanics surveys basics of quantum mechanics and concludes with a look at group theory and quantum mechanics of the atom 1963 edition

computational engineering is the treatment of engineering tasks with computers it is based on computational mathematics which is presented here in a comprehensive handbook engineers and scientists who deal with engineering tasks have to handle large amounts of information which must be created and structured in a systematic manner this demands a high level of abstraction and therefore knowledge of the mathematical foundations from the existing rich repertoire of mathematical theories and methods the fundamentals of engineering computation are selected and presented in a coherent fashion they are brought into a suitable order for specific engineering purposes and their significance for typical applications is shown the relevant definitions notations and theories are presented in a durable form which is independent of the fast development of information and communication technology

this book applies methods from nonlinear dynamics to problems in neuroscience it uses modern mathematical

approaches to understand patterns of neuronal activity seen in experiments and models of neuronal behavior the intended audience is researchers interested in applying mathematics to important problems in neuroscience and neuroscientists who would like to understand how to create models as well as the mathematical and computational methods for analyzing them the authors take a very broad approach and use many different methods to solve and understand complex models of neurons and circuits they explain and combine numerical analytical dynamical systems and perturbation methods to produce a modern approach to the types of model equations that arise in neuroscience there are extensive chapters on the role of noise multiple time scales and spatial interactions in generating complex activity patterns found in experiments the early chapters require little more than basic calculus and some elementary differential equations and can form the core of a computational neuroscience course later chapters can be used as a basis for a graduate class and as a source for current research in mathematical neuroscience the book contains a large number of illustrations chapter summaries and hundreds of exercises which are motivated by issues that arise in biology and involve both computation and analysis bard ermentrout is professor of computational biology and professor of mathematics at the university of pittsburgh david terman is professor of mathematics at the ohio state university

mathematical foundations of computer science volume i is the first of two volumes presenting topics from mathematics mostly discrete mathematics which have proven relevant and useful to computer science this volume treats basic topics mostly of a set theoretical nature sets functions and relations partially ordered sets induction enumerability and diagonalization and illustrates the usefulness of mathematical ideas by presenting applications to computer science readers will find useful applications in algorithms databases semantics of programming languages

formal languages theory of computation and program verification the material is treated in a straightforward systematic and rigorous manner the volume is organized by mathematical area making the material easily accessible to the upper undergraduate students in mathematics as well as in computer science and each chapter contains a large number of exercises the volume can be used as a textbook but it will also be useful to researchers and professionals who want a thorough presentation of the mathematical tools they need in a single source in addition the book can be used effectively as supplementary reading material in computer science courses particularly those courses which involve the semantics of programming languages formal languages and automata and logic programming

mathematical foundations of computer science introduces students to the discrete mathematics needed later in their computer science coursework with theory of computation topics interleaved throughout students learn about mathematical concepts just in time to apply them to theory of computation ideas for instance sets motivate the study of finite automata direct proof is practised using closure properties induction is used to prove the language of an automaton and contradiction is used to apply the pumping lemma the main content of the book starts with primitive data types such as sets and strings and ends with showing the undecidability of the halting problem there are also appendix chapters on combinatorics probability elementary number theory asymptotic notation graphs loop invariants and recurrences the content is laid out concisely with a heavy reliance on worked examples of which there are over 250 in the book each chapter has exercises totalling 550 this class tested textbook is targeted to intermediate computer science majors and it is primarily intended for a discrete math proofs course in a computer science major it is also suitable for introductory theory of computation courses the authors hope this book breeds curiosity into the

subject and is designed to satisfy this to some extent by reading this book the book will prepare readers for deeper study of game theory applications in many fields of study

this book presents topics from mathematics which are relevant and useful to computer science this book treats basic topics such as number theory set theory functions etc in a simple way each chapter has been planned as independent unit so that various interrelated topics can also be read independently ample amount of examples and problems are given at the end of each chapter to help both the students and researchers hints and answers are also given for the problems in the exercise to help the students for self learning please note taylor francis does not sell or distribute the hardback in india pakistan nepal bhutan bangladesh and sri lanka

this volume is the proceedings of the 3rd workshop on the mathematical foundations of programming language semantics held at tulane university new orleans louisiana april 8 10 1987 the 1st workshop was at kansas state university manhattan kansas in april 1985 see lncs 239 and the 2nd workshop with a limited number of participants was at kansas state in april 1986 it was the intention of the organizers that the 3rd workshop survey as many areas of the mathematical foundations of programming language semantics as reasonably possible the workshop attracted 49 submitted papers from which 28 papers were chosen for presentation the papers ranged in subject from category theory and lambda calculus to the structure theory of domains and power domains to implementation issues surrounding semantics

fundamental concepts formal processes components of content irreversibility mechanical systems and adiabatic

processes entropy topological considerations thermodynamic space equilibrium states and potential perfect equilibrium states thermodynamics of a rigidly enclosed system systems of variable volume electric and magnetic systems galilean thermodynamics symmetry in thermodynamics special relativistic thermodynamics appendix a the formal theory appendix b subadditive functions on a group appendix c the physical basis for the adjoint representation

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