Mathematical Optics

Classical, Quantum, and Computational Methods

Edited by
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Mathematical Optics Classical Quantum And Computational Methods

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Mathematical Optics Classical Quantum And Computational Methods:

Mathematical Optics Vasudevan Lakshminarayanan,María L. Calvo,Tatiana Alieva,2018-10-08 Going beyond standard introductory texts Mathematical Optics Classical Quantum and Computational Methods brings together many new mathematical techniques from optical science and engineering research Profusely illustrated the book makes the material accessible to students and newcomers to the field Divided into six parts the text presents state of the art mathematical methods and applications in classical optics quantum optics and image processing Part I describes the use of phase space concepts to characterize optical beams and the application of dynamic programming in optical waveguides Part II explores solutions to paraxial linear and nonlinear wave equations Part III discusses cutting edge areas in transformation optics such as invisibility cloaks and computational plasmonics Part IV uses Lorentz groups dihedral group symmetry Lie algebras and Liouville space to analyze problems in polarization ray optics visual optics and quantum optics Part V examines the role of coherence functions in modern laser physics and explains how to apply quantum memory channel models in quantum computers Part VI introduces super resolution imaging and differential geometric methods in image processing As numerical symbolic computation is an important tool for solving numerous real life problems in optical science many chapters include Mathematica code in their appendices The software codes and notebooks as well as color versions of the book s figures are available at www crcpress com **Theory and Applications of the Poincaré Group** Sibel Başkal,Young Suh Kim,Marilyn E. Noz,2024-11-14 This book is intended mainly as a teaching tool directed toward those who desire a deeper understanding of group theory in terms of examples applicable to the physical world and or of the physical world in terms of the symmetry properties which can best be formulated in terms of group theory Both advanced students and scholars interested in the relationship between group theory and physics will find it instructive In particular those engaged in high energy physics and foundations of quantum mechanics will find this book rich in illustrative examples of relativistic quantum mechanics This new edition contains four new chapters two of which are consistent with Dirac s aim to combine the important developments in physics in the twentieth century namely quantum mechanics and special relativity Moreover these new chapters also discuss various aspects of classical and quantum optics that are now understood to be interrelated Most of the original chapters have been updated either with new material added or in some instances reinterpretation of the original The order of the chapters has been rearranged to create a more cohesive presentation The original purpose of the first edition namely to present examples to which physics students and researchers can relate has not been altered **Physics of the Lorentz Group** Sibel Baskal,Young S Kim,Marilyn E Noz,2015-11-01 This book explains the Lorentz mathematical group in a language familiar to physicists While the three dimensional rotation group is one of the standard mathematical tools in physics the Lorentz group of the four dimensional Minkowski space is still very strange to most present day physicists It plays an essential role in understanding particles moving at close to light speed and is becoming the essential language for quantum

optics classical optics and information science The book is based on papers and books published by the authors on the representations of the Lorentz group based on harmonic oscillators and their applications to high energy physics and to Wigner functions applicable to quantum optics It also covers the two by two representations of the Lorentz group applicable to ray optics including cavity multilayer and lens optics as well as representations of the Lorentz group applicable to Stokes parameters and the Poincar sphere on polarization optics **Symmetry in Optics and Vision Studies** Marlos A.G. Viana,Vasudevan Lakshminarayanan,2019-11-27 This book presents an introduction to the foundations interpretations and data analytic applications of symmetry studies with an emphasis on applications in optical sciences Symmetry studies connect group theoretic and statistical methods for data summary and inference Readers should have an understanding of calculus and linear algebra as well as introductory statistics The book reviews finite group theory in the introductory chapters Computational tools used in the text are available for download in the form of Mathmatica notebooks or R scripts This book Demonstrates the usefulness of a unified view of algebra and symmetry studies to address data analytic questions in optics and vision science Offers a brief review of finite group theory and elements of multivariate analysis Includes various examples from diverse areas of optical science *Harmonic Oscillators and Two-By-Two Matrices in Symmetry Problems in Physics* Young Suh Kim,2018-07-09 This book is a printed edition of the Special Issue Harmonic Oscillators In Modern Physics that was published in Symmetry *Optical Beam Characterization via Phase-Space Tomography* Alejandro Cámara,2015-07-18 This thesis focuses on the fundamental problem of characterising partially coherent beams The book describes several non interferometric methods based on phase space tomography for recovering the spatial coherence information of optical beams In the context of optical beams partially coherent light provides numerous advantages over coherent light From microscopy to optical communications there are many disciplines that benefit from using partially coherent beams However their range of applications currently remains limited due to the complexity of extracting information In addition to providing a feasible experimental solution for the general case the book explores several situations in which beam symmetries are exploited to simplify the information extraction process Each characterisation method is accompanied by a corresponding theoretical explanation and a thorough description of experimental examples *Helical Laser Beams* Victor V. Kotlyar, Mathematical Methods using Python Vasilis Pagonis,Christopher Wayne Kulp,2024-05-14 This advanced undergraduate textbook presents a new approach to teaching mathematical methods for scientists and engineers It provides a practical pedagogical introduction to utilizing Python in Mathematical and Computational Methods courses Both analytical and computational examples are integrated from its start Each chapter concludes with a set of problems designed to help students hone their skills in mathematical techniques computer programming and numerical analysis The book places less emphasis on mathematical proofs and more emphasis on how to use computers for both symbolic and numerical calculations It contains 182 extensively documented coding examples based on topics that students

will encounter in their advanced courses in Mechanics Electronics Optics Electromagnetism Quantum Mechanics etc An introductory chapter gives students a crash course in Python programming and the most often used libraries SymPy NumPy SciPy Matplotlib This is followed by chapters dedicated to differentiation integration vectors and multiple integration techniques The next group of chapters covers complex numbers matrices vector analysis and vector spaces Extensive chapters cover ordinary and partial differential equations followed by chapters on nonlinear systems and on the analysis of experimental data using linear and nonlinear regression techniques Fourier transforms binomial and Gaussian distributions The book is accompanied by a dedicated GitHub website which contains all codes from the book in the form of ready to run Jupyter notebooks A detailed solutions manual is also available for instructors using the textbook in their courses Key Features A unique teaching approach which merges mathematical methods and the Python programming skills which physicists and engineering students need in their courses Uses examples and models from physical and engineering systems to motivate the mathematics being taught Students learn to solve scientific problems in three different ways traditional pen and paper methods using scientific numerical techniques with NumPy and SciPy and using Symbolic Python SymPy

Credible Asset Allocation, Optimal Transport Methods, and Related Topics Songsak Sriboonchitta,Vladik Kreinovich,Woraphon Yamaka,2022-07-29 This book describes state of the art economic ideas and how these ideas can be and are used to make economic decision in particular to optimally allocate assets and to gauge the results of different economic decisions in particular by using optimal transport methods Special emphasis is paid to machine learning techniques including deep learning and to different aspects of quantum econometrics when quantum physics and quantum computing models are techniques are applied to study economic phenomena Applications range from more traditional economic areas to more non traditional topics such as economic aspects of tourism cryptocurrencies telecommunication infrastructure and pandemic This book helps student to learn new techniques practitioners to become better knowledgeable of the state of the art econometric techniques and researchers to further develop these important research directions **Feynman Integral and Random Dynamics in Quantum Physics** Z. Haba,2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a

probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics *Official Gazette* Philippines,2011 **Computational Chemistry** Philippe G. Ciarlet,Jacques-Louis Lions,1990 Aiming to provide the reader with a general overview of the mathematical and numerical techniques used for the simulation of matter at the microscopic scale this book lays the emphasis on the numerics but modelling aspects are also addressed The contributors come from different scientific communities physics theoretical chemistry mathematical analysis stochastic analysis numerical analysis and the text should be suitable for graduate students in mathematics sciences and engineering and technology **Essential Computational Modeling in Chemistry** Philippe G. Ciarlet,2010-12-07 Essential Computational Modeling in Chemistry presents key contributions selected from the volume in the Handbook of Numerical Analysis Computational Modeling in Chemistry Vol 10 2005 Computational Modeling is an active field of scientific computing at the crossroads between Physics Chemistry Applied Mathematics and Computer Science Sophisticated mathematical models are increasingly complex and extensive computer simulations are on the rise Numerical Analysis and scientific software have emerged as essential steps for validating mathematical models and simulations based on these models This guide provides a quick reference of computational methods for use in understanding chemical reactions and how to control them By demonstrating various computational methods in research scientists can predict such things as molecular properties The reference offers a number of techniques and the numerical analysis needed to perform rigorously founded computations Various viewpoints of methods and applications are available for researchers to chose and experiment with Numerical analysis and open problems is useful for experimentation Most commonly used models and techniques for the molecular case is quickly accessible **Computational Chemistry Methodology in Structural Biology and Materials Sciences** Tanmoy Chakraborty,Prabhat Ranjan,Anand Pandey,2017-10-03 Computational Chemistry Methodology in Structural Biology and Materials Sciences provides a selection of new research in theoretical and experimental chemistry focusing on topics in the materials science and biological activity Part 1 on Computational Chemistry Methodology in Biological Activity of the book emphasizes presents new developments in the domain of theoretical and computational chemistry and its applications to bioactive molecules It looks at various aspects of density functional theory and other issues Part 2 on Computational Chemistry Methodology in Materials Science presents informative new research on computational chemistry as applied to materials science The wide range of topics regarding the application of theoretical and experimental chemistry and materials science and biological domain will be valuable in the context of addressing contemporary research problems **Il Nuovo Cimento Della Società Italiana Di Fisica** ,1997 *Computational Methods for Nanoscale Applications* Igor Tsukerman,2020-08-21 Positioning itself at the common boundaries of several disciplines this work

provides new perspectives on modern nanoscale problems where fundamental science meets technology and computer modeling In addition to well known computational techniques such as finite difference schemes and Ewald summation the book presents a new finite difference calculus of Flexible Local Approximation Methods FLAME that qualitatively improves the numerical accuracy in a variety of problems **Hyperbolic Problems: Theory, Numerics and Applications** Eitan Tadmor,Jian-Guo Liu,Athanasios E. Tzavaras,2009 The International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2008 was held at the University of Maryland from June 9 13 2008 This was the twelfth meeting in the bi annual international series of HYP conferences which originated in 1986 at Saint Etienne France and over the last twenty years has become one of the highest quality and most successful conference series in Applied Mathematics This book the first in a two part volume contains nineteen papers based on plenary and invited talks presented at the conference These original research and review papers written by leading experts as well as promising young scientists represent the state of the art research frontiers in hyperbolic equations and related problems ranging from theoretical analysis to algorithm development and applications in physical sciences and engineering This volume will bring readers to the forefront of research in this most active and important area in applied mathematics **Nuovo Cimento** ,1997 **Quantum Computer Science** Marco Lanzagorta,Jeffrey Uhlmann,2022-05-31 In this text we present a technical overview of the emerging field of quantum computation along with new research results by the authors What distinguishes our presentation from that of others is our focus on the relationship between quantum computation and computer science Specifically our emphasis is on the computational model of quantum computingrather than on the engineering issues associated with its physical implementation We adopt this approach for the same reason that a book on computer programming doesn t cover the theory and physical realization of semiconductors Another distinguishing feature of this text is our detailed discussion of the circuit complexity of quantum algorithms To the extent possible we have presented the material in a form that is accessible to the computer scientist but in many cases we retain the conventional physics notation so that the reader will also be able to consult the relevant quantum computing literature Although we expect the reader to have a solid understanding of linear algebra we do not assume a background in physics This text is based on lectures given as short courses and invited presentations around the world and it has been used as the primary text for a graduatecourse at George Mason University In all these cases our challenge has been the same how to present to a generalaudience a concise introduction to the algorithmic structure and applications of quantum computing on an extremely short period of time The feedback from these courses and presentations has greatly aided in making our exposition of challenging concepts more accessible to a general audience Table of Contents Introduction The Algorithmic Structure of Quantum Computing Advantages and Limitations of Quantum Computing Amplitude Amplification Case Study Computational Geometry The Quantum Fourier Transform Case Study The Hidden Subgroup Circuit Complexity Analysis of Quantum Algorithms Conclusions Bibliography **University of**

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