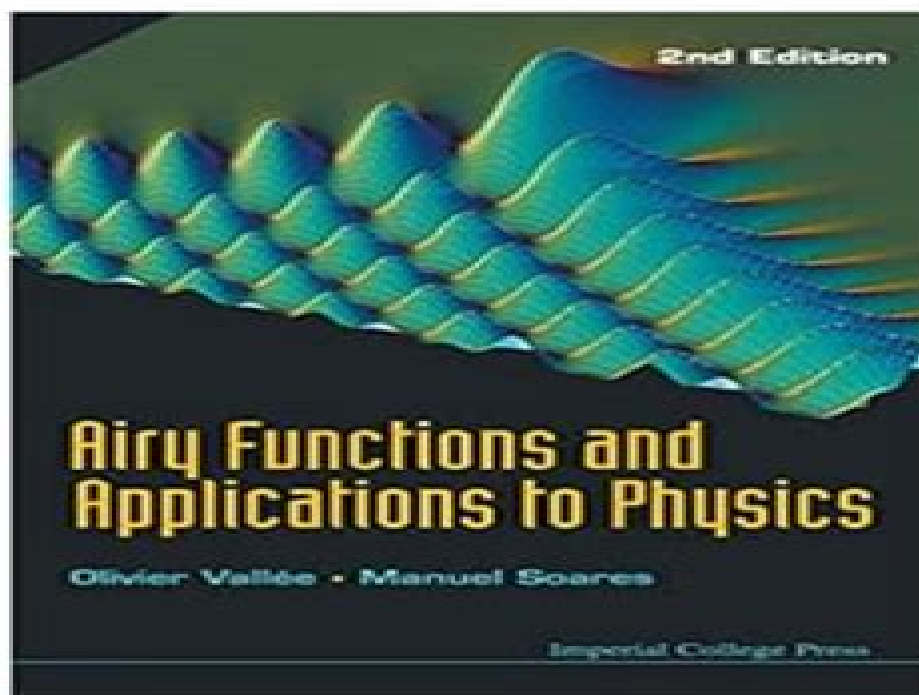


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BOOK JACKET Computational Methods for Physicists Simon Sirca, Martin Horvat, 2012-12-17 This book helps advanced undergraduate graduate and postdoctoral students in their daily work by offering them a compendium of numerical methods The choice of methods pays significant attention to error estimates stability and convergence issues as well as to the ways to optimize program execution speeds Many examples are given throughout the chapters and each chapter is followed by at least a handful of more comprehensive problems which may be dealt with for example on a weekly basis in a one or two semester course In these end of chapter problems the physics background is pronounced and the main text preceding them is intended as an introduction or as a later reference Less stress is given to the explanation of individual algorithms It is tried to induce in the reader an own independent thinking and a certain amount of scepticism and scrutiny instead of blindly following readily available commercial tools

Introduction to Perturbation Methods Mark H. Holmes, 2012-12-05 This introductory graduate text is based on a graduate course the author has taught repeatedly over the last ten years to students in applied mathematics engineering sciences and physics Each chapter begins with an introductory development involving ordinary differential equations and goes on to cover such traditional topics as boundary layers and multiple scales However it also contains material arising from current research interest including homogenisation slender body theory symbolic computing and discrete equations Many of the excellent exercises are derived from problems of up to date research and are drawn from a wide range of application areas One hundred new pages added including new material on transcendently small terms Kummer's function weakly coupled oscillators and wave interactions

Mathematical Modelling in Engineering & Human Behaviour 2018 Lucas Jódar, Juan Carlos Cortés, Luis Acedo Rodríguez, 2019-04-15 This book includes papers in cross disciplinary applications of mathematical modelling from medicine to linguistics social problems and more Based on cutting edge research each chapter is focused on a different problem of modelling human behaviour or engineering problems at different levels The reader would find this book to be a useful reference in identifying problems of interest in social medicine and engineering sciences and in developing mathematical models that could be used to successfully predict behaviours and obtain practical information for specialised practitioners This book is a must read for anyone interested in the new developments of applied mathematics in connection with epidemics medical modelling social issues random differential equations and numerical methods

Fractional Calculus and Waves in Linear Viscoelasticity Francesco Mainardi, 2010 This monograph provides a comprehensive overview of the author's work on the fields of fractional calculus and waves in linear viscoelastic media which includes his pioneering contributions on the applications of special functions of the Mittag Leffler and Wright types It is intended to serve as a general introduction to the above mentioned areas of mathematical modeling

The explanations in the book are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to delve further into the subject and explore the research literature given in the huge general bibliography This book is likely to be of interest to applied scientists and engineers *Wave Theory of Information* Massimo Franceschetti, 2017-11-30 An expert guide to the relationship between information theory and the physics of wave propagation covering stochastic and deterministic approaches engineering applications and the universal physical limits of radiation It is an ideal reference for researchers and graduate students in electrical engineering physics and applied mathematics **Electron Transport in Nanostructures and Mesoscopic Devices** Thierry Ouisse, 2013-03-01

This book introduces researchers and students to the physical principles which govern the operation of solid state devices whose overall length is smaller than the electron mean free path In quantum systems such as these electron wave behavior prevails and transport properties must be assessed by calculating transmission amplitudes rather than microscopic conductivity Emphasis is placed on detailing the physical laws that apply under these circumstances and on giving a clear account of the most important phenomena The coverage is comprehensive with mathematics and theoretical material systematically kept at the most accessible level The various physical effects are clearly differentiated ranging from transmission formalism to the Coulomb blockade effect and current noise fluctuations Practical exercises and solutions have also been included to facilitate the reader's understanding *Symplectic Quantum Field Theory* Ademir E. Santana, Faqir C. Khanna, Alesandro F. Santos, Ronni G. Gomes Amorim, Sérgio C. Ulhoa, J. David. M. Vianna, 2023-12-21 The present monograph brings to readers as researchers and students of physics and mathematics recent developments in symmetries where the representation space is a symplectic manifold This gives rise to the quantum field theory formulated in through the concept of phase space and associated with the Wigner function a quasi distribution of probability This approach provides information about non classicality of quantum systems describes quantum chaos and is the starting point of the quantum kinetic theory In this realm abelian and non abelian gauge symmetries are introduced with the concept of quasi amplitude of probability This leads for instance to Symplectic Schrödinger Klein Gordon and Dirac equations dealing with systems in condensed matter and particle physics These achievements are depicted here following a pedagogical model of presentation

Evolution Equations With A Complex Spatial Variable Ciprian G Gal, Sorin G Gal, Jerome A Goldstein, 2014-03-18 This book investigates several classes of partial differential equations of real time variable and complex spatial variables including the heat Laplace wave telegraph Burgers Black Merton Scholes Schrödinger and Korteweg de Vries equations The complexification of the spatial variable is done by two different methods The first method is that of complexifying the spatial variable in the corresponding semigroups of operators In this case the solutions are studied within the context of the theory of semigroups of linear operators It is also interesting to observe that these solutions preserve some geometric properties of the boundary function like the univalence starlikeness convexity and spirallikeness The second method is that of

complexifying the spatial variable directly in the corresponding evolution equation from the real case More precisely the real spatial variable is replaced by a complex spatial variable in the corresponding evolution equation and then analytic and non analytic solutions are sought For the first time in the book literature we aim to give a comprehensive study of the most important evolution equations of real time variable and complex spatial variables In some cases potential physical interpretations are presented The generality of the methods used allows the study of evolution equations of spatial variables in general domains of the complex plane

Dimensional Analysis Across the Landscape of Physics Richard W. Robinett, 2025-01-20 Aimed at students throughout the undergraduate Physics curriculum this textbook emphasizes the utility of dimensional analysis techniques in research applications with examples ranging from famous papers in the historical literature to recent advances and includes an extensive array of worked examples and end of chapter problems

Advanced Complex Analysis Barry Simon, 2015-11-02 A Comprehensive Course in Analysis by Poincar Prize winner Barry Simon is a five volume set that can serve as a graduate level analysis textbook with a lot of additional bonus information including hundreds of problems and numerous notes that extend the text and provide important historical background Depth and breadth of exposition make this set a valuable reference source for almost all areas of classical analysis Part 2B provides a comprehensive look at a number of subjects of complex analysis not included in Part 2A Presented in this volume are the theory of conformal metrics including the Poincar metric the Ahlfors Robinson proof of Picard s theorem and Bell s proof of the Painlevé smoothness theorem topics in analytic number theory including Jacobi s two and four square theorems the Dirichlet prime progression theorem the prime number theorem and the Hardy Littlewood asymptotics for the number of partitions the theory of Fuchsian differential equations asymptotic methods including Euler s method stationary phase the saddle point method and the WKB method univalent functions including an introduction to SLE and Nevanlinna theory The chapters on Fuchsian differential equations and on asymptotic methods can be viewed as a minicourse on the theory of special functions

Archimedes to Hawking Clifford Pickover, 2008-04-16 This marvelous volume takes the reader on a journey across the centuries as it explores eponymous physical laws from Archimedes Law of Buoyancy and Kepler s Laws of Planetary Motion to Heisenberg s Uncertainty Principle and Hubble s Law of Cosmic Expansion whose ramifications have profoundly altered our everyday lives and our understanding of the universe

Bessel Processes, Schramm-Loewner Evolution, and the Dyson Model Makoto Katori, 2016-02-08 The purpose of this book is to introduce two recent topics in mathematical physics and probability theory the Schramm Loewner evolution SLE and interacting particle systems related to random matrix theory A typical example of the latter systems is Dyson s Brownian motion BM model The SLE and Dyson s BM model may be considered as children of the Bessel process with parameter D $BES(D)$ and the SLE and Dyson s BM model as grandchildren of BM In Chap 1 the parenthood of BM in diffusion processes is clarified and $BES(D)$ is defined for any $D \geq 1$ Dependence of the $BES(D)$ path on its initial value is represented by the Bessel flow

In Chap 2 SLE is introduced as a complexification of BES D Rich mathematics and physics involved in SLE are due to the nontrivial dependence of the Bessel flow on D From a result for the Bessel flow Cardy s formula in Carleson s form is derived for SLE In Chap 3 Dyson s BM model with parameter is introduced as a multivariate extension of BES D with the relation $D = 1 - \frac{2}{\kappa}$ The book concentrates on the case where $\kappa = 2$ and calls this case simply the Dyson model The Dyson model inherits the two aspects of BES 3 hence it has very strong solvability That is the process is proved to be determinantal in the sense that all spatio temporal correlation functions are given by determinants and all of them are controlled by a single function called the correlation kernel From the determinantal structure of the Dyson model the Tracy Widom distribution is derived

A Treatise on Bessel Functions and Their Applications to Physics Andrew Gray,Edward Gray,George Ballard Mathews,Ernst Meissel,1895

Historical Encyclopedia of Natural and Mathematical Sciences Ari Ben-Menahem,2009-03-06 The 5800 page Encyclopedia surveys 100 generations of great thinkers offering 2070 detailed biographies of scientists engineers explorers and inventors who left their mark on the history of science and technology This six volume masterwork also includes 380 articles summarizing the time line of ideas in the leading fields of science technology mathematics and philosophy plus useful tables figures and photos and 20 Science Progress Reports detailing scientific setbacks Interspersed throughout are quotations gathered from the wit and wisdom of sages savants and scholars throughout the ages from antiquity to modern times The Encyclopedia represents 20 years work by the sole author Ari Ben Menahem of Israel s Weizmann Institute of Science

Quantum Mechanics Sergio Cecotti,2025-09-26 This advanced introductory textbook offers a comprehensive approach to non relativistic Quantum Mechanics focusing on exact methods and mathematical techniques often overlooked in standard textbooks Bridging the gap between foundational concepts and advanced topics this book introduces numerous methods some of which are entirely new making it an invaluable resource for students and researchers alike Key topics include open quantum systems entanglement and supersymmetry providing a modern perspective on the subject With eight in depth chapters it covers Quantum Mechanics A New Paradigm Hilbert Space Formulation of Quantum Physics Schrödinger Equation I Symmetry Angular Momentum and Statistics Schrödinger Equation II Path Integrals Quantum Entanglement Methods Techniques and Approximation Schemes Perfect for those seeking a deeper understanding of quantum mechanics beyond the basics this textbook combines theory with practical mathematical methods to present the full scope of the subject s complexity

Special Functions & Their Applications N. N. Lebedev,2012-04-30 Famous Russian work discusses the application of cylinder functions and spherical harmonics gamma function probability integral and related functions Airy functions hyper geometric functions more Translated by Richard Silverman

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