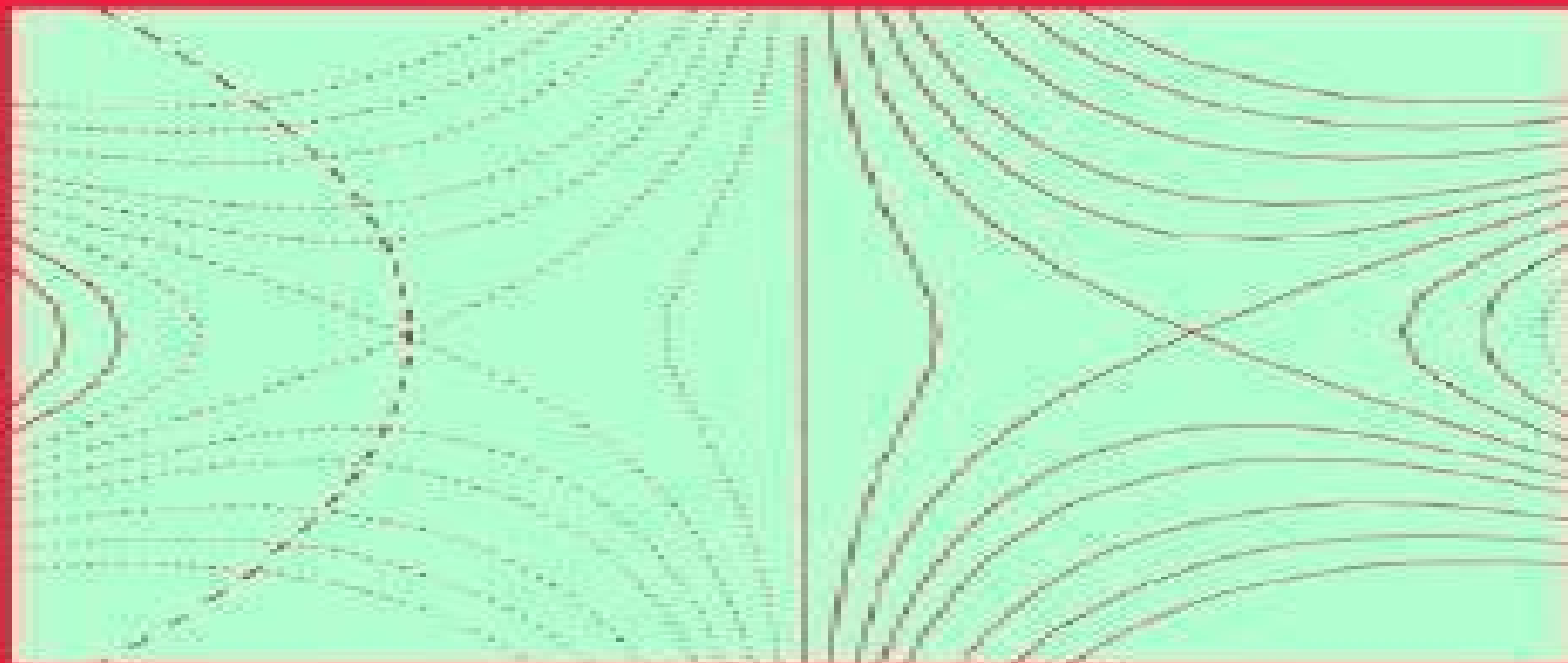


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Statistical Mechanics And The Physics Of Many-particle Model Systems Alexander Leonidovich Kuzemsky, 2017-02-24 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and nonequilibrium and shows their effectiveness and operational ability in applications to problems of quantum solid state theory quantum theory of magnetism and the kinetic theory The book includes description of the fundamental concepts and techniques of analysis following the approach of N N Bogoliubov's school including recent developments It provides an overview that introduces the main notions of quantum many particle physics with the emphasis on concepts and models This book combines the features of textbook and research monograph For many topics the aim is to start from the beginning and to guide the reader to the threshold of advanced researches Many chapters include also additional information and discuss many complex research areas which are not often discussed in other places The book is useful for established researchers to organize and present the advanced material disseminated in the literature The book contains also an extensive bibliography The book serves undergraduate graduate and postgraduate students as well as researchers who have had prior experience with the subject matter at a more elementary level or have used other many particle techniques *Stability, Instability and Chaos* Paul Glendinning, 1994-11-25 By providing an introduction to nonlinear differential equations Dr Glendinning aims to equip the student with the mathematical know how needed to appreciate stability theory and bifurcations His approach is readable and covers material both old and new to undergraduate courses Included are treatments of the Poincaré Bendixson theorem the Hopf bifurcation and chaotic systems The unique treatment that is found in this book will prove to be an essential guide to stability and chaos

Nonlinear Wave Processes in Acoustics K. Naugolnykh, L. Ostrovsky, 1998-05-28 This text considers models of different acoustic media as well as equations and behavior of finite amplitude waves It also considers the effects of nonlinearity dissipation dispersion and for two and three dimensional problems reflection and diffraction on the evolution and interaction

of acoustic beams **Rarefied Gas Dynamics** Carlo Cercignani, 2000-02-28 The aim of this book is to present the concepts methods and applications of kinetic theory to rarefied gas dynamics After introducing the basic tools problems in plane geometry are treated using approximation techniques perturbation and numerical methods These same techniques are later used to deal with two and three dimensional problems The models include not only monatomic but also polyatomic gases mixtures chemical reactions A special chapter is devoted to evaporation and condensation phenomena Each section is accompanied by problems which are mainly intended to demonstrate the use of the material in the text and to outline additional subjects results and equations This will help ensure that the book can be used for a range of graduate courses in aerospace engineering or applied mathematics *Thinking about Ordinary Differential Equations* Robert E. O'Malley, 1997-01-13 Ordinary differential equations the building blocks of mathematical modelling are also key elements of disciplines as diverse as engineering and economics While mastery of these equations is essential adhering to any one method of solving them is not this book stresses alternative examples and analyses by means of which the student can build an understanding of a number of approaches to finding solutions and understanding their behaviour This book offers not only an applied perspective for the student learning to solve differential equations but also the challenge to apply these analytical tools in the context of singular perturbations which arises in many areas of application An important resource for the advanced undergraduate this book would be equally useful for the beginning graduate student investigating further approaches to these essential equations **Complex Variables** Mark J. Ablowitz, Athanassios S. Fokas, 2003-04-28 Complex variables provide powerful methods for attacking problems that can be very difficult to solve in any other way and it is the aim of this book to provide a thorough grounding in these methods and their application Part I of this text provides an introduction to the subject including analytic functions integration series and residue calculus and also includes transform methods ODEs in the complex plane and numerical methods Part II contains conformal mappings asymptotic expansions and the study of Riemann Hilbert problems The authors provide an extensive array of applications illustrative examples and homework exercises This 2003 edition was improved throughout and is ideal for use in undergraduate and introductory graduate level courses in complex variables **A First Course in the Numerical Analysis of Differential Equations** A. Iserles, 1996-01-18 Numerical analysis presents different faces to the world For mathematicians it is a bona fide mathematical theory with an applicable flavour For scientists and engineers it is a practical applied subject part of the standard repertoire of modelling techniques For computer scientists it is a theory on the interplay of computer architecture and algorithms for real number calculations The tension between these standpoints is the driving force of this book which presents a rigorous account of the fundamentals of numerical analysis of both ordinary and partial differential equations The point of departure is mathematical but the exposition strives to maintain a balance between theoretical algorithmic and applied aspects of the subject In detail topics covered include numerical solution of ordinary differential equations by

multistep and Runge Kutta methods finite difference and finite elements techniques for the Poisson equation a variety of algorithms to solve large sparse algebraic systems methods for parabolic and hyperbolic differential equations and techniques of their analysis The book is accompanied by an appendix that presents brief back up in a number of mathematical topics Dr Iserles concentrates on fundamentals deriving methods from first principles analysing them with a variety of mathematical techniques and occasionally discussing questions of implementation and applications By doing so he is able to lead the reader to theoretical understanding of the subject without neglecting its practical aspects The outcome is a textbook that is mathematically honest and rigorous and provides its target audience with a wide range of skills in both ordinary and partial differential equations Introduction to Hydrodynamic Stability P. G. Drazin, 2002-09-09 Publisher

Description **Viscous Flow** Hilary Ockendon, J. R. Ockendon, 1995-01-27 Many of the topics in inviscid fluid dynamics are not only vitally important mechanisms in everyday life but they are also readily observable without any need for instrumentation It is therefore stimulating when the mathematics that emerges when these phenomena are modelled is novel and suggestive of alternative methodologies This book provides senior undergraduates who are already familiar with inviscid fluid dynamics with some of the basic facts about the modelling and analysis of viscous flows It clearly presents the salient physical ideas and the mathematical ramifications with exercises designed to be an integral part of the text By showing the basic theoretical framework which has developed as a result of the study of viscous flows the book should be ideal reading for students of applied mathematics who should then be able to delve further into the subject and be well placed to exploit mathematical ideas throughout the whole of applied science Scaling, Self-similarity, and Intermediate Asymptotics G. I. Barenblatt, 1996-12-12 Scaling laws reveal the fundamental property of phenomena namely self similarity repeating in time and or space which substantially simplifies the mathematical modelling of the phenomena themselves This book begins from a non traditional exposition of dimensional analysis physical similarity theory and general theory of scaling phenomena using classical examples to demonstrate that the onset of scaling is not until the influence of initial and or boundary conditions has disappeared but when the system is still far from equilibrium Numerous examples from a diverse range of fields including theoretical biology fracture mechanics atmospheric and oceanic phenomena and flame propagation are presented for which the ideas of scaling intermediate asymptotics self similarity and renormalisation were of decisive value in modelling

Mathematical Models in the Applied Sciences A. C. Fowler, 1997-11-28 Presents a thorough grounding in the techniques of mathematical modelling and proceeds to explore a range of classical and continuum models from an array of disciplines *Springer Handbook of Atomic, Molecular, and Optical Physics* Gordon W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a

uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Homotopy Analysis Method in Nonlinear Differential Equations Shijun Liao, 2012-06-22 Homotopy Analysis Method in Nonlinear Differential Equations presents the latest developments and applications of the analytic approximation method for highly nonlinear problems namely the homotopy analysis method HAM Unlike perturbation methods the HAM has nothing to do with small large physical parameters In addition it provides great freedom to choose the equation type of linear sub problems and the base functions of a solution Above all it provides a convenient way to guarantee the convergence of a solution This book consists of three parts Part I provides its basic ideas and theoretical development Part II presents the HAM based Mathematica package BVPh 1.0 for nonlinear boundary value problems and its applications Part III shows the validity of the HAM for nonlinear PDEs such as the American put option and resonance criterion of nonlinear travelling waves New solutions to a number of nonlinear problems are presented illustrating the originality of the HAM Mathematica codes are freely available online to make it easy for readers to understand and use the HAM This book is suitable for researchers and postgraduates in applied mathematics physics nonlinear mechanics finance and engineering Dr Shijun Liao a distinguished professor of Shanghai Jiao Tong University is a pioneer of the HAM

Stochastic Calculus Mircea Grigoriu, 2013-12-11 Algebraic differential and integral equations are used in the applied sciences engineering economics and the social sciences to characterize the current state of a physical economic or social system and forecast its evolution in time Generally the coefficients of and or the input to these equations are not precisely known because of insufficient information limited understanding of some underlying phenomena and inherent randomness For example the orientation of the atomic lattice in the grains of a polycrystal varies randomly from grain to grain the spatial distribution of a phase of a composite material is not known precisely for a particular specimen bone properties needed to develop reliable artificial joints vary significantly with individual and age forces acting on a plane from takeoff to landing depend in a complex manner on the environmental conditions and flight pattern and stock prices and their evolution in time depend on a large number of factors that cannot be described by deterministic models Problems that can be defined by algebraic differential and integral equations with random coefficients and or input are referred to as stochastic problems The main objective of this book is the solution of stochastic problems that is the determination of the probability law moments and or other probabilistic properties of the state of a physical economic or social system It is assumed that the operators and inputs defining a stochastic problem are specified

Approximate Analytical Methods for Solving Ordinary Differential Equations T.S.L Radhika, T. Iyengar, T. Rani, 2014-11-21
Approximate Analytical Methods for Solving Ordinary Differential Equations ODEs is the first book to present all of the available approximate methods for solving ODEs eliminating the need to wade through multiple books and articles It covers both well established techniques and recently developed procedures including the classical series solution **Dynamics of Quantum Dot Lasers** Christian Otto, 2014-01-21 This thesis deals with the dynamics of state of the art nanophotonic semiconductor structures providing essential information on fundamental aspects of nonlinear dynamical systems on the one hand and technological applications in modern telecommunication on the other Three different complex laser structures are considered in detail i a quantum dot based semiconductor laser under optical injection from a master laser ii a quantum dot laser with optical feedback from an external resonator and iii a passively mode locked quantum well semiconductor laser with saturable absorber under optical feedback from an external resonator Using a broad spectrum of methods both numerical and analytical this work achieves new fundamental insights into the interplay of microscopically based nonlinear laser dynamics and optical perturbations by delayed feedback and injection **Slowly Varying Oscillations And Waves: From Basics To Modernity** Lev Ostrovsky, 2022-02-23 The beauty of the theoretical science is that quite different physical biological etc phenomena can often be described as similar mathematical objects by similar differential or other equations In the 20th century the notion of theory of oscillations and later theory of waves as unifying concepts meaning the application of similar methods and equations to quite different physical problems came into being In the variety of applications quite possibly in most of them the oscillatory process is characterized by a slow as compared with the characteristic period variation of its parameters such as the amplitude and frequency The same is true for the wave processes This book describes a variety of problems associated with oscillations and waves with slowly varying parameters Among them the nonlinear and parametric resonances self synchronization attenuated and amplified solitons self focusing and self modulation and reaction diffusion systems For oscillators the physical examples include the van der Pol oscillator and a pendulum models of a laser For waves examples are taken from oceanography nonlinear optics acoustics and biophysics The last chapter of the book describes more formal asymptotic perturbation schemes for the classes of oscillators and waves considered in all preceding chapters

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