

Attilio Maccari

Asymptotic Perturbation Methods

For Nonlinear Differential Equations in Physics



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Mathematical Physiology James Keener, James Sneyd, 2006-04-18 Divided into two parts the book begins with a pedagogical presentation of some of the basic theory with chapters on biochemical reactions diffusion excitability wave propagation and cellular homeostasis The second more extensive part discusses particular physiological systems with chapters on calcium dynamics bursting oscillations and secretion cardiac cells muscles intercellular communication the circulatory system the immune system wound healing the respiratory system the visual system hormone physiology renal physiology digestion the visual system and hearing **Acceso rápido a Star Office 5.1** Salvador C. Rubio, 2000-03

Distributed Transfer Function Method Bingen Yang, Kyoungrae Noh, 2023-10-04 The distributed transfer function method DTFM is an analytical method for modeling analysis and control of a class of distributed parameter systems that are governed by partial differential equations and that can be defined over multiple interconnected subregions In this comprehensive reference the authors show how the DTFM delivers highly accurate analytical solutions in both the frequency domain and the time domain while offering a versatile modeling technique for various problems in mechanical civil aerospace electrical chemical biomechanical and vehicle engineering [A First Look at Perturbation Theory](#) James G. Simmonds, James E. Mann, Jr., 1998-01-01 Undergraduates in engineering and the physical sciences receive a thorough introduction to perturbation theory in this useful and accessible text Students discover methods for obtaining an approximate solution of a mathematical problem by exploiting the presence of a small dimensionless parameter the smaller the parameter the more accurate the approximate solution Knowledge of perturbation theory offers a twofold benefit approximate solutions often reveal the exact solution's essential dependence on specified parameters also some problems resistant to numerical solutions may yield to perturbation methods In fact numerical and perturbation methods can be combined in a complementary way The text opens with a well defined treatment of finding the roots of polynomials whose coefficients contain a small parameter Proceeding to differential equations the authors explain many techniques for handling perturbations that reorder the equations or involve an unbounded independent variable Two disparate practical problems that can be solved efficiently with perturbation methods conclude the volume Written in an informal style that moves from specific examples to general principles this elementary text emphasizes the why along with the how prerequisites include a knowledge of one variable calculus and ordinary differential equations This newly revised second edition features an additional appendix concerning the approximate evaluation of integrals **Perturbation Techniques in Mathematics, Engineering and Physics** Richard Ernest Bellman, 2003-01-01 Graduate students receive a stimulating introduction to analytical approximation techniques for solving differential equations in this text which introduces scientifically significant problems and indicates useful solutions 1966 edition **Surveys in Applied Mathematics** Mark I. Freidlin, Sergey Grederkul, John K. Hunter, Andrew Marchenko, Leonid Pastur, 2012-12-06 Volume 2 offers three in depth articles covering significant areas in applied

mathematics research Chapters feature numerous illustrations extensive background material and technical details and abundant examples The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations using probabilistic methods examine wave localization phenomena in one dimensional random media and offer an extensive introduction to certain model equations for nonlinear wave phenomena **Fluid Dynamics** Anatoly Ruban, Jitesh Gajjar, Andrew Walton, 2023-06-14 This is the fourth volume in a four part series on fluid dynamics Part 1 Classical Fluid Dynamics Part 2 Asymptotic Problems of Fluid Dynamics Part 3 Boundary Layers Part 4 Hydrodynamic Stability Theory The series is designed to give a comprehensive and coherent description of fluid dynamics starting with chapters on classical theory suitable for an introductory undergraduate lecture course and then progressing through more advanced material up to the level of modern research in the field Part 4 is devoted to hydrodynamic stability theory which aims at predicting the conditions under which the laminar state of a flow turns into a turbulent state The phenomenon of laminar turbulent transition remains one of the main challenges of modern physics The resolution of this problem is important not only from a theoretical viewpoint but also for practical applications For instance in the flow past a passenger aircraft wing the laminar turbulent transition causes a fivefold increase in the viscous drag The book starts with the classical results of the theory which include the global stability analysis followed by the derivation of the Orr Sommerfeld equation The properties of this equation are discussed using as examples plane Poiseuille flow and the Blasius boundary layer In addition we discuss inviscid flow instability governed by the Rayleigh equation Kelvin Helmholtz instability crossflow instability and centrifugal instability taking the form of Taylor Görtler vortices However in this presentation our main attention regards recent developments in the theory These include linear and nonlinear critical layer theory the theory of receptivity of the boundary layer to external perturbations weakly nonlinear stability theory of Landau and Stuart and vortex wave interaction theory The latter allows us to describe self sustaining nonlinear perturbations within a viscous fluid **Singular Perturbation Theory** R.S. Johnson, 2005-12-28 The importance of mathematics in the study of problems arising from the real world and the increasing success with which it has been used to model situations ranging from the purely deterministic to the stochastic is well established The purpose of the set of volumes to which the present one belongs is to make available authoritative up to date and self contained accounts of some of the most important and useful of these analytical approaches and techniques Each volume provides a detailed introduction to a specific subject area of current importance that is summarized below and then goes beyond this by reviewing recent contributions and so serving as a valuable reference source The progress in applicable mathematics has been brought about by the extension and development of many important analytical approaches and techniques in areas both old and new frequently aided by the use of computers without which the solution of realistic problems would otherwise have been impossible **Applied Mechanics Reviews** , 1968 General Catalogue University of California, Los Angeles, 1975 **Interfacial Wave Theory of Pattern Formation in Solidification** Jian-Jun

Xu,2017-05-23 This comprehensive work explores interfacial instability and pattern formation in dynamic systems away from the equilibrium state in solidification and crystal growth Further this significantly expanded 2nd edition introduces and reviews the progress made during the last two decades In particular it describes the most prominent pattern formation phenomena commonly observed in material processing and crystal growth in the framework of the previously established interfacial wave theory including free dendritic growth from undercooled melt cellular growth and eutectic growth in directional solidification as well as viscous fingering in Hele Shaw flow It elucidates the key problems systematically derives their mathematical solutions by pursuing a unified asymptotic approach and finally carefully examines these results by comparing them with the available experimental results The asymptotic approach described here will be useful for the investigation of pattern formation phenomena occurring in a much broader class of inhomogeneous dynamical systems In addition the results on global stability and selection mechanisms of pattern formation will be of particular interest to researchers working on material processing and crystal growth The stability mechanisms of a curved front and the pattern formation have been fundamental subjects in the areas of condensed matter physics materials science crystal growth and fluid mechanics for some time now This book offers a stimulating and insightful introduction for all physicists engineers and applied mathematicians working in the fields of soft condensed matter physics materials science mechanical and chemical engineering fluid dynamics and nonlinear sciences Theory and Applications of Stochastic Processes Zeev

Schuss,2009-12-09 Stochastic processes and diffusion theory are the mathematical underpinnings of many scientific disciplines including statistical physics physical chemistry molecular biophysics communications theory and many more Many books reviews and research articles have been published on this topic from the purely mathematical to the most practical This book offers an analytical approach to stochastic processes that are most common in the physical and life sciences as well as in optimal control and in the theory of filtering of signals from noisy measurements Its aim is to make probability theory in function space readily accessible to scientists trained in the traditional methods of applied mathematics such as integral ordinary and partial differential equations and asymptotic methods rather than in probability and measure theory Transactions of the ... Conference of Army Mathematicians ,1976 Fundamentals of Photonic Crystal Guiding

Maksim Skorobogatiy,Jianke Yang,2009 A systematic rigorous pedagogical introduction to the field of photonic crystals ideal for researchers and graduate students **General Catalog** University of California, Los Angeles,1975 **Field Theory,**

Disorder And Simulations Giorgio Parisi,1992-10-09 This volume is a collection of lectures and selected papers by Giorgio Parisi on the subjects of Field Theory perturbative expansions nonperturbative phenomena and phase transitions Disordered Systems mainly spin glasses and Computer Simulations lattice gauge theories The basic problems discussed in the Field Theory section concern the interplay between perturbation theory and nonperturbative phenomena which are present when one deals with infrared or ultraviolet divergences or with nonconvergent perturbative expansions The section on Disordered

Systems contains a complete discussion about the replica method and its probabilistic interpretation and also includes a short paper on multifractals In the Simulations section there is a series of lectures devoted to the study of quantum chromodynamics and a review paper on simulations in complex systems The works of Giorgio Parisi have repeatedly displayed a remarkable depth of originality and innovation and have paved the way for new research in many areas This personal selection of his lectures and papers complete with an original introduction by him undoubtedly serves as a vital reference book for physicists and mathematicians working in these fields

Advanced Topics in Quantum Field Theory

Mikhail Shifman, 2022-04-28 Quantum field theory is the basis of our modern description of physical phenomena at the fundamental level This systematic and comprehensive text emphasizes nonperturbative phenomena and supersymmetry It includes a thorough discussion of various phases of gauge theories extended objects and their quantization and global supersymmetry from a modern perspective This Second Edition is revised to include topics developed in the last decade including higher form global symmetries and their applications anomalies in supersymmetric theories beyond Ferrara Zumino and non Abelian supersymmetric vortex strings A new final part is added presenting more than 90 problems with detailed solutions allowing students to check their understanding of the acquired knowledge and providing extra details to supplement the main text descriptions This an indispensable book for graduate students and researchers in theoretical physics

Nonlinear Filtering and Optimal Phase Tracking Zeev Schuss, 2011-11-16 This book offers an analytical rather than measure theoretical approach to the derivation of the partial differential equations of nonlinear filtering theory The basis for this approach is the discrete numerical scheme used in Monte Carlo simulations of stochastic differential equations and Wiener's associated path integral representation of the transition probability density Furthermore it presents analytical methods for constructing asymptotic approximations to their solution and for synthesizing asymptotically optimal filters It also offers a new approach to the phase tracking problem based on optimizing the mean time to loss of lock The book is based on lecture notes from a one semester special topics course on stochastic processes and their applications that the author taught many times to graduate students of mathematics applied mathematics physics chemistry computer science electrical engineering and other disciplines The book contains exercises and worked out examples aimed at illustrating the methods of mathematical modeling and performance analysis of phase trackers

Graduate Studies, 1987

Liquid Film Coating P.M. Schweizer, S.F. Kistler, 2012-12-06 This multi authored volume provides a comprehensive and in depth account of the highly interdisciplinary science and technology of liquid film coating The book covers fundamental principles from a wide range of scientific disciplines including fluid mechanics and transport phenomena capillary hydrodynamics surface and colloid science The authors all acknowledged experts in their fields represent a balance between industrial and academic points of view Throughout the text many case studies illustrate how scientific principles together with advanced experimental and theoretical methods are applied to develop and optimize manufacturing processes of ever increasing sophistication and

efficiency In the first part of the book the authors systematically recount the underlying physical principles and important material properties The second part of the book gives a comprehensive overview of the most advanced experimental mathematical and computational methods available today to investigate coating processes The third part provides an overview and critical literature review for all major classes of liquid film coating processes of industrial importance

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