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L. Sirovich

Techniques of Asymptotic Analysis



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Techniques Of Asymptotic Analysis Applied Mathematical Sciences Volume 2

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Book catalog of the Library and Information Services Division Environmental Science Information Center. Library and Information Services Division, 1977 **Book Catalog of the Library and Information Services Division: Shelf List catalog** Environmental Science Information Center. Library and Information Services Division, 1977 *Numerical Methods and Analysis of Multiscale Problems* Alexandre L. Madureira, 2017-02-15 This book is about numerical modeling of multiscale problems and introduces several asymptotic analysis and numerical techniques which are necessary for a proper approximation of equations that depend on different physical scales Aimed at advanced undergraduate and graduate students in mathematics engineering and physics or researchers seeking a no nonsense approach it discusses examples in their simplest possible settings removing mathematical hurdles that might hinder a clear understanding of the methods The problems considered are given by singular perturbed reaction advection diffusion equations in one and two dimensional domains partial differential equations in domains with rough boundaries and equations with oscillatory coefficients This work shows how asymptotic analysis can be used to develop and analyze models and numerical methods that are robust and work well for a wide range of parameters **Symmetry and Integration Methods for Differential Equations** George Bluman, Stephen Anco, 2008-01-10 This text discusses Lie groups of transformations and basic symmetry methods for solving ordinary and partial differential equations It places emphasis on explicit computational algorithms to discover symmetries admitted by differential equations and to construct solutions resulting from symmetries This new edition covers contact transformations Lie B cklund transformations and adjoints and integrating factors for ODEs of arbitrary order **Multiple Scale and Singular Perturbation Methods** J.K. Kevorkian, J.D. Cole, 2012-12-06 This book is a revised and updated version including a substantial portion of new material of our text *Perturbation Methods in Applied Mathematics* Springer Verlag 1981 We present the material at a level that assumes some familiarity with the basics of ordinary and partial differential equations Some of the more advanced ideas are reviewed as needed therefore this book can serve as a text in either an advanced undergraduate course or a graduate level course on the subject Perturbation methods first used by astronomers to predict the effects of small disturbances on the nominal motions of celestial bodies have now become widely used analytical tools in virtually all branches of science A problem lends itself to perturbation analysis if it is close to a simpler problem that can be solved exactly Typically this closeness is measured by the occurrence of a small dimensionless parameter ϵ in the governing system consisting of differential equations and boundary conditions so that for $\epsilon \rightarrow 0$ the resulting system is exactly solvable The main mathematical tool used is asymptotic expansion with respect to a suitable asymptotic sequence of functions of ϵ In a regular perturbation problem a straightforward procedure leads to a system of differential equations and boundary conditions for each term in the asymptotic expansion This system can be solved recursively and the accuracy of the result improves as ϵ gets smaller for all values of the independent variables throughout the domain of interest We discuss

regular perturbation problems in the first chapter

Symmetries and Differential Equations George W.

Bluman, Sukeyuki Kumei, 2013-03-14 A major portion of this book discusses work which has appeared since the publication of the book *Similarity Methods for Differential Equations* Springer Verlag 1974 by the first author and J D Cole The present book also includes a thorough and comprehensive treatment of Lie groups of transformations and their various uses for solving ordinary and partial differential equations No knowledge of group theory is assumed Emphasis is placed on explicit computational algorithms to discover symmetries admitted by differential equations and to construct solutions resulting from symmetries This book should be particularly suitable for physicists applied mathematicians and engineers Almost all of the examples are taken from physical and engineering problems including those concerned with heat conduction wave propagation and fluid flows A preliminary version was used as lecture notes for a two semester course taught by the first author at the University of British Columbia in 1987 88 to graduate and senior undergraduate students in applied mathematics and physics Chapters 1 to 4 encompass basic material More specialized topics are covered in Chapters 5 to 7

Variational Methods for Structural Optimization Andrej Cherkaev, 2012-12-06 In recent decades it has become possible to turn the design process into computer algorithms By applying different computer oriented methods the topology and shape of structures can be optimized and thus designs systematically improved These possibilities have stimulated an interest in the mathematical foundations of structural optimization The challenge of this book is to bridge a gap between a rigorous mathematical approach to variational problems and the practical use of algorithms of structural optimization in engineering applications The foundations of structural optimization are presented in a sufficiently simple form to make them available for practical use and to allow their critical appraisal for improving and adapting these results to specific models Special attention is to pay to the description of optimal structures of composites to deal with this problem novel mathematical methods of nonconvex calculus of variation are developed The exposition is accompanied by examples 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 Functional Analysis** Eberhard

Zeidler, 1995-08-30 The second part of an elementary textbook which combines linear functional analysis nonlinear functional

analysis and their substantial applications The book addresses undergraduates and beginning graduates of mathematics physics and engineering who want to learn how functional analysis elegantly solves mathematical problems which relate to our real world and which play an important role in the history of mathematics The books approach is to attempt to determine the most important applications These concern integral equations differential equations bifurcation theory the moment problem Cebyshev approximation the optimal control of rockets game theory symmetries and conservation laws the quark model and gauge theory in elementary particle physics The presentation is self contained and requires only that readers be familiar with some basic facts of calculus

Topics in Multiple Time Scale Dynamics Maximilian Engel, Hildeberto Jardón-Kojakhmetov, Cinzia Soresina, 2024-10-21 This volume contains the proceedings of the BIRS Workshop Topics in Multiple Time Scale Dynamics held from November 27 December 2 2022 at the Banff International Research Station Banff Alberta Canada The area of multiple scale dynamics is rapidly evolving marked by significant theoretical breakthroughs and practical applications The workshop facilitated a convergence of experts from various sub disciplines encompassing topics like blow up techniques for ordinary differential equations ODEs singular perturbation theory for stochastic differential equations SDE homogenization and averaging slow fast maps numerical approaches and network dynamics including their applications in neuroscience and climate science This volume provides a wide ranging perspective on the current challenging subjects being explored in the field including themes such as novel approaches to blowing up and canard theory in unique contexts complex multi scale challenges in PDEs and the role of stochasticity in multiple scale systems

Ultrasonic Wave Propagation in Non Homogeneous Media Alain Leger, Marc Deschamps, 2009-01-30 Non Destructive Testing and Non Destructive Evaluation using Ultrasounds covers an important field of applications and requires a wide range of fundamental theoretical numerical and experimental investigations In the present volume the reader will find some relevant research results on wave propagation in complex materials and structures which are concerned with today s problems on composites bonding guided waves contact or damage imaging and structural noise The fifth meeting of the Anglo French Research Group on Wave propagation in non homogeneous media with a view to Non Destructive testing was held in Anglet France June 2 6 2008

Singularities and Groups in Bifurcation Theory Martin Golubitsky, David G. Schaeffer, 2013-11-27 This book has been written in a frankly partisan spirit we believe that singularity theory offers an extremely useful approach to bifurcation problems and we hope to convert the reader to this view In this preface we will discuss what we feel are the strengths of the singularity theory approach This discussion then leads naturally into a discussion of the contents of the book and the prerequisites for reading it Let us emphasize that our principal contribution in this area has been to apply pre existing techniques from singularity theory especially unfolding theory and classification theory to bifurcation problems Many of the ideas in this part of singularity theory were originally proposed by Rene Thom the subject was then developed rigorously by John Mather and extended by V I Arnold In applying this material to bifurcation problems we were greatly

encouraged by how well the mathematical ideas of singularity theory meshed with the questions addressed by bifurcation theory. Concerning our title *Singularities and Groups in Bifurcation Theory* it should be mentioned that the present text is the first volume in a two volume sequence. In this volume our emphasis is on singularity theory with group theory playing a subordinate role. In Volume II the emphasis will be more balanced. Having made these remarks let us set the context for the discussion of the strengths of the singularity theory approach to bifurcation. As we use the term bifurcation theory is the study of equations with multiple solutions.

Chaos, Fractals, and Noise Andrzej Lasota, Michael C. Mackey, 2013-11-27
The first edition of this book was originally published in 1985 under the title *Probabilistic Properties of Deterministic Systems*. In the intervening years interest in so called chaotic systems has continued unabated but with a more thoughtful and sober eye toward applications as befits a maturing field. This interest in the serious usage of the concepts and techniques of nonlinear dynamics by applied scientists has probably been spurred more by the availability of inexpensive computers than by any other factor. Thus computer experiments have been prominent suggesting the wealth of phenomena that may be resident in nonlinear systems. In particular they allow one to observe the interdependence between the deterministic and probabilistic properties of these systems such as the existence of invariant measures and densities, statistical stability and periodicity, the influence of stochastic perturbations, the formation of attractors and many others. The aim of the book and especially of this second edition is to present recent theoretical methods which allow one to study these effects. We have taken the opportunity in this second edition to not only correct the errors of the first edition but also to add substantially new material in five sections and a new chapter.

Theory and Practice of Finite Elements Alexandre Ern, Jean-Luc Guermond, 2013-03-09
The origins of the finite element method can be traced back to the 1950s when engineers started to solve numerically structural mechanics problems in aeronautics. Since then the field of applications has widened steadily and nowadays encompasses nonlinear solid mechanics, fluid structure interactions, flows in industrial or geophysical settings, multicomponent reactive turbulent flows, mass transfer in porous media, viscoelastic flows in medical sciences, electromagnetism, wave scattering problems, and option pricing, to cite a few examples. Numerous commercial and academic codes based on the finite element method have been developed over the years. The method has been so successful to solve Partial Differential Equations (PDEs) that the term Finite Element Method nowadays refers not only to the mere interpolation technique, it is but also to a fuzzy set of PDEs and approximation techniques. The efficiency of the finite element method relies on two distinct ingredients: the interpolation capability of finite elements, referred to as the approximability property in this book, and the ability of the user to approximate his model mostly a set of PDEs in a proper mathematical setting, thus guaranteeing continuity, stability, and consistency properties. Experience shows that failure to produce an approximate solution with an acceptable accuracy is almost invariably linked to departure from the mathematical foundations. Typical examples include non physical oscillations, spurious modes, and locking effects. In most cases a remedy can be

designed if the mathematical framework is properly set up

Computational Homology Tomasz Kaczynski, Konstantin Mischaikow, Marian Mrozek, 2006-04-18 Homology is a powerful tool used by mathematicians to study the properties of spaces and maps that are insensitive to small perturbations This book uses a computer to develop a combinatorial computational approach to the subject The core of the book deals with homology theory and its computation Following this is a section containing extensions to further developments in algebraic topology applications to computational dynamics and applications to image processing Included are exercises and software that can be used to compute homology groups and maps The book will appeal to researchers and graduate students in mathematics computer science engineering and nonlinear dynamics

Wave Packets and Their Bifurcations in Geophysical Fluid Dynamics Huijun Yang, 2013-06-29 The material in this book is based predominantly on my recent work It is the first monograph on the subject though some support material may overlap other monographs The investigation of wave packets and their bifurcations is very interesting and useful theoretically and in practice not only in geophysical fluid dynamics which is the field to which the theory is being applied here but also in other fields in mathematics and the natural sciences I hope that the applied mathematician will find reading this book worthwhile especially the material on the behavior of highly nonlinear dynamic systems However it is my belief that applying the concepts and methods developed here to other fields will be both interesting and constructive since there are numerous phenomena in other areas of physics that share the characteristics of those in geophysical fluid dynamics The theory developed here provides an effective tool to investigate the structure and the structural changes of dynamic systems in physics Applications of the theory in geophysical fluid dynamics are an example of its usefulness and effectiveness Some of the results presented here give us more insight into the nature of geophysical fluids Moreover the material is presented systematically and developmentally Necessary basic knowledge is provided to make the book more readable for graduate students and researchers in such fields as applied mathematics geophysical fluid dynamics atmospheric sciences and physical oceanography

Global Bifurcation in Variational Inequalities Vy Khoi Le, Klaus Schmitt, 2013-12-01 Bifurcation Problems for Variational Inequalities presents an up to date and unified treatment of bifurcation theory for variational inequalities in reflexive spaces and the use of the theory in a variety of applications such as obstacle problems from elasticity theory unilateral problems torsion problems equations from fluid mechanics and quasilinear elliptic partial differential equations The tools employed are the tools of modern nonlinear analysis This book is accessible to graduate students and researchers who work in nonlinear analysis nonlinear partial differential equations and additional research disciplines that use nonlinear mathematics

Book Catalog of the Library and Information Services Division:
Author-title-series indexes Environmental Science Information Center. Library and Information Services Division, 1977

Acoustics Paul Filippi, 1999 Presents the main basis of modelling in acoustics Includes the procedures used to describe a physical phenomenon by a system of equations and then to solve this system by analytical and or numerical methods

Weakly Connected Neural Networks Frank C. Hoppensteadt, Eugene M. Izhikevich, 2012-12-06 This book is devoted to an analysis of general weakly connected neural networks WCNNs that can be written in the form $\dot{x}_i = f_i(x_i) + \epsilon \sum_{j=1}^n g_{ij}(x_j)$ Here each $x_i \in \mathbb{R}^m$ is a vector that summarizes all physiological attributes of the i th neuron n is the number of neurons f_i describes the dynamics of the i th neuron and g_{ij} describes the interactions between neurons The small parameter ϵ indicates the strength of connections between the neurons Weakly connected systems have attracted much attention since the second half of seventeenth century when Christian Huygens noticed that a pair of pendulum clocks synchronize when they are attached to a light weight beam instead of a wall The pair of clocks is among the first weakly connected systems to have been studied Systems of the form $\dot{x}_i = f_i(x_i) + \epsilon \sum_{j=1}^n g_{ij}(x_j)$ arise in formal perturbation theories developed by Poincare Liapunov and Malkin and in averaging theories developed by Bogoliubov and Mitropolsky

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