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**Analyzing Multiscale
Phenomena Using
Singular Perturbation
Methods**

Jane Cronin
Robert E. O'Malley, Jr.
Editors



American Mathematical Society

Analyzing Multiscale Phenomena Using Singular Perturbation Methods

**Bernhelm Booß-Bavnbek, Jens
Hesselbjerg Christensen, Katherine
Richardson, Oriol Vallès Codina**

Analyzing Multiscale Phenomena Using Singular Perturbation Methods:

Analyzing Multiscale Phenomena Using Singular Perturbation Methods Jane Cronin, Robert E. O'Malley, American Mathematical Society, To understand multiscale phenomena it is essential to employ asymptotic methods to construct approximate solutions and to design effective computational algorithms This volume consists of articles based on the AMS Short Course in Singular Perturbations held at the annual Joint Mathematics Meetings in Baltimore MD Leading experts discussed the following topics which they expand upon in the book boundary layer theory matched expansions multiple scales geometric theory computational techniques and applications in physiology and dynamic metastability Readers will find that this text offers an up to date survey of this important field with numerous references to the current literature both pure and applied

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Methods and Applications of Singular Perturbations Ferdinand Verhulst, 2006-06-04 Contains well chosen examples and exercises A student friendly introduction that follows a workbook type approach

Singular Perturbations and Hysteresis Michael P. Mortell, Robert E. O'Malley, Alexei Pokrovskii, Vladimir Sobolev, 2005-01-01 This book brings together many important recent developments in the analysis of singular perturbation and hysteresis phenomena in an accessible and reasonably comprehensive fashion To bridge a gap between practitioners of these phenomena the editors conducted a workshop in April 2002 at University College Cork to provide a forum for experts in both fields to share their interests and knowledge For this book the editors have compiled research from those practitioners in areas such as reacting systems semiconductor lasers shock phenomena in economic modeling and fluid mechanics all with an emphasis on hysteresis and singular perturbations

Multiplicity of Time Scales in Complex Systems Bernhelm Booß-Bavnbek, Jens Hesselbjerg Christensen, Katherine Richardson, Oriol Vallès Codina, 2024-04-02 Note to the interested reader to have a look at the companion to this volume Challenges for Sciences and Communication I ISBN 978 3 031 28048 1 This highly interdisciplinary volume brings together a carefully curated set of case studies examining complex systems with multiple time scales MTS across a variety of fields materials science epidemiology cell physiology mathematics climatology energy transition planning ecology economics sociology history and cultural studies The book addresses the vast diversity of interacting processes underlying the behaviour of different complex systems highlighting the multiplicity of characteristic

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Multiple Time Scale Dynamics Christian Kuehn, 2015-02-25 This book provides an introduction to dynamical systems with multiple time scales The approach it takes is to provide an overview of key areas particularly topics that are less available in the introductory form The broad range of topics included makes it accessible for students and researchers new to the field to gain a quick and thorough overview The first of its kind this book merges a wide variety of different mathematical techniques into a more unified framework The book is highly illustrated with many examples and exercises and an extensive bibliography The target audience of this book are senior undergraduates graduate students as well as researchers interested in using the multiple time scale dynamics theory in nonlinear science either from a theoretical or a mathematical modeling perspective

Normally Hyperbolic Invariant Manifolds Jaap Eldering, 2013-08-17 This monograph treats normally hyperbolic invariant manifolds with a focus on noncompactness These objects generalize hyperbolic fixed points and are ubiquitous in dynamical systems First normally hyperbolic invariant manifolds and their relation to hyperbolic fixed points and center manifolds as well as overviews of history and methods of proofs are presented Furthermore issues such as uniformity and bounded geometry arising due to noncompactness are discussed in great detail with examples The main new result shown is a proof of persistence for noncompact normally hyperbolic invariant manifolds in Riemannian manifolds of bounded geometry This extends well known results by Fenichel and Hirsch Pugh and Shub and is complementary to noncompactness results in Banach spaces by Bates Lu and Zeng Along the way some new results in bounded geometry are

obtained and a framework is developed to analyze ODEs in a differential geometric context Finally the main result is extended to time and parameter dependent systems and overflowing invariant manifolds Chaos in Automatic Control Wilfrid Perruquetti, Jean-Pierre Barbot, 2018-10-03 Chaotic behavior arises in a variety of control settings In some cases it is beneficial to remove this behavior in others introducing or taking advantage of the existing chaotic components can be useful for example in cryptography Chaos in Automatic Control surveys the latest methods for inserting taking advantage of or removing chaos in a variety of applications This book supplies the theoretical and pedagogical basis of chaos in control systems along with new concepts and recent developments in the field Presented in three parts the book examines open loop analysis closed loop control and applications of chaos in control systems The first section builds a background in the mathematics of ordinary differential and difference equations on which the remainder of the book is based It includes an introductory chapter by Christian Mira a pioneer in chaos research The next section explores solutions to problems arising in observation and control of closed loop chaotic control systems These include model independent control methods strategies such as H infinity and sliding modes polytopic observers normal forms using homogeneous transformations and observability normal forms The final section explores applications in wireless transmission optics power electronics and cryptography Chaos in Automatic Control distills the latest thinking in chaos while relating it to the most recent developments and applications in control It serves as a platform for developing more robust autonomous intelligent and adaptive systems

Mathematical Reviews, 2000 **Nonlinearity**, 2009 **Geometric Structures of Phase Space in Multi-dimensional Chaos** Mikito Toda, 2005 This series provides the chemical physics field with a forum for critical authoritative evaluations of advances in every area of the discipline SIAM Journal on Scientific Computing, 2004 *Publications Update* World Bank, 1996 **Hyperbolic Problems** 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 14 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 The articles in this two part volume are written by leading researchers as well as promising young scientists and cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of hyperbolic PDEs This volume will bring readers to the forefront of research in this most active and important area in applied mathematics **Directory of Published Proceedings**, 2001 *Index of Conference Proceedings* British Library. Document Supply Centre, 2000 *American Book Publishing Record*, 2000 Book Review Index, 2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index *Applied Science & Technology Index*, 2000 Multiscale Problems in Science and Technology Nenad Antonic, C. J. van Duijn, Willi J Ger, 2011-05-20

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