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*Ferdinand Verhulst*

TEXTS IN APPLIED MATHEMATICS

# **Methods and Applications of Singular Perturbations**

## **Boundary Layers and Multiple Timescale Dynamics**



**Springer**

# Methods And Applications Of Singular Perturbations

**Petar Kokotovic, Hassan K. Khali, John  
O'Reilly**



## **Methods And Applications Of Singular Perturbations:**

**Methods and Applications of Singular Perturbations** Ferdinand Verhulst, 2005-06-28 Contains well chosen examples and exercises A student friendly introduction that follows a workbook type approach      **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      **Singular Perturbations** Elena Shchepakina, Vladimir Sobolev, Michael P. Mortell, 2014-10-06 These lecture notes provide a fresh approach to investigating singularly perturbed systems using asymptotic and geometrical techniques It gives many examples and step by step techniques which will help beginners move to a more advanced level Singularly perturbed systems appear naturally in the modelling of many processes that are characterized by slow and fast motions simultaneously for example in fluid dynamics and nonlinear mechanics This book s approach consists in separating out the slow motions of the system under investigation The result is a reduced differential system of lesser order However it inherits the essential elements of the qualitative behaviour of the original system Singular Perturbations differs from other literature on the subject due to its methods and wide range of applications It is a valuable reference for specialists in the areas of applied mathematics engineering physics biology as well as advanced undergraduates for the earlier parts of the book and graduate students for the later chapters      **Singular Perturbation Methods in Control** Petar Kokotovic, Hassan K. Khali, John O'Reilly, 1999-01-01 This SIAM Classics edition of the 1986 book provides the theoretical foundation for representative control applications      **Algebraic Analysis of Singular Perturbation Theory** Takahiro Kawai, Yoshitsugu Takei, 2005 The topic of this book is the study of singular perturbations of ordinary differential equations i e perturbations that represent solutions as asymptotic series rather than as analytic functions in a perturbation parameter The main method used is the so called WKB Wentzel Kramers Brillouin method originally invented for the study of quantum mechanical systems The authors describe in detail the WKB method and its applications to the study of monodromy problems for Fuchsian differential equations and to the analysis of Painleve functions This volume is suitable for graduate students and researchers interested in differential equations and special functions      **Methods and Applications of Singular Perturbations** R. Bloomfield, L. Marshall, Roger B. Jones, 1988 Contains well chosen examples and exercises A

student friendly introduction that follows a workbook type approach      **Singular-Perturbation Theory** Donald R. Smith, 1985-08-30 Introduction to singular perturbation problems Since the nature of the nonuniformity can vary from case to case the author considers and solves a variety of problems mostly for ordinary differential equations      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 solut      Control and Dynamic Systems V52: Integrated Technology Methods and Applications in Aerospace Systems Design C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 52 Integrated Technology Methods and Applications in Aerospace System Design discusses the various techniques and applications in aerospace systems This book presents automation and integration techniques in optimizing aircraft structural design It also covers a number of technologies used in aerospace systems such as active flutter suppression flight control configuration aeroassisted plane change missions flight control systems and impaired aircraft This book concludes by demonstrating some modeling issues in command control and communication networks This book is a significant reference source for engineers involved in aerospace systems design      **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 transcendentally small terms Kummer s function weakly coupled oscillators and wave interactions      Recent Studies in Perturbation Theory Dimo Uzunov, 2017-06-14 The book contains seven chapters written by noted experts and young researchers who present their recent studies of both pure mathematical problems of perturbation theories and application of perturbation methods to the study of the important topic in physics for example renormalization group theory and applications to basic models in theoretical physics Y Takashi the quantum gravity and its detection and measurement F Bulnes atom photon interactions E G Thrapsaniotis treatment of spectra and radiation characteristics by relativistic perturbation theory A V Glushkov et al and Green s function theory and some applications Jing Huang The pure mathematical issues are related to the problem of generalization of the boundary layer function method for bisingularly perturbed differential equations K Alymkulov and D A Torsunov and to the development of new homotopy asymptotic methods and some of their applications Baojian Hong

Singularly Perturbed Evolution Equations with Applications to Kinetic Theory J. R. Mika, J. Banasiak, 1995 In recent years there appeared a large number of papers as well as chapters in more general monographs devoted to evolution equations containing small or large parameters In this book it is intended to gather the existing results as well as to introduce new ones on the field of initial value problems for singularly perturbed evolution equations of the resonance type Such equations are of great interest in the applied sciences particularly in the kinetic theory which is chosen as the main field of application for the asymptotic theory developed in the monograph

*Systems Analysis and Simulation I* Achim Sydow, Spyros G. Tzafestas, Robert Vichnevetsky, 2012-12-06 Computer simulation has developed into a powerful tool for problem solving in a variety of areas in the sciences as well as in industrial environments New developments such as parallel simulation techniques will further improve the efficiency of the tool Decision support systems either based on mathematical models or on knowledge based expert systems will make computer simulation accessible to more users and will provide better environments for systems analysis modeling and simulation Systems Analysis and Simulation presents the papers accepted for the 3rd International Symposium for Systems Analysis and Simulation held in Berlin GDR in September of 1988 The contributions selected for this two volume set present the state of the art and current trends in computer simulation Volume I emphasizes the theoretical foundations and the methodology for computer simulation and systems analysis Volume II presents a variety of applications in fields such as manufacturing robotics economics and biology

**The Theory of Differential Equations** Walter G. Kelley, Allan C. Peterson, 2010-04-22 For over 300 years differential equations have served as an essential tool for describing and analyzing problems in many scientific disciplines This carefully written textbook provides an introduction to many of the important topics associated with ordinary differential equations Unlike most textbooks on the subject this text includes nonstandard topics such as perturbation methods and differential equations and Mathematica In addition to the nonstandard topics this text also contains contemporary material in the area as well as its classical topics This second edition is updated to be compatible with Mathematica version 7.0 It also provides 81 additional exercises a new section in Chapter 1 on the generalized logistic equation an additional theorem in Chapter 2 concerning fundamental matrices and many more other enhancements to the first edition This book can be used either for a second course in ordinary differential equations or as an introductory course for well prepared students The prerequisites for this book are three semesters of calculus and a course in linear algebra although the needed concepts from linear algebra are introduced along with examples in the book An undergraduate course in analysis is needed for the more theoretical subjects covered in the final two chapters

**Discrete-Time Markov Chains** George Yin, Qing Zhang, 2005 Focusing on discrete time scale Markov chains the contents of this book are an outgrowth of some of the authors recent research The motivation stems from existing and emerging applications in optimization and control of complex hybrid Markovian systems in manufacturing wireless communication and financial engineering Much effort in this book is devoted to designing system

models arising from these applications analyzing them via analytic and probabilistic techniques and developing feasible computational algorithms so as to reduce the inherent complexity This book presents results including asymptotic expansions of probability vectors structural properties of occupation measures exponential bounds aggregation and decomposition and associated limit processes and interface of discrete time and continuous time systems One of the salient features is that it contains a diverse range of applications on filtering estimation control optimization and Markov decision processes and financial engineering This book will be an important reference for researchers in the areas of applied probability control theory operations research as well as for practitioners who use optimization techniques Part of the book can also be used in a graduate course of applied probability stochastic processes and applications

#### **Delays and Interconnections:**

**Methodology, Algorithms and Applications** Giorgio Valmorbida,Alexandre Seuret,Islam Boussaada,Rifat

Sipahi,2019-10-02 This book contains advances on the theory and applications of time delay systems with particular focus on interconnected systems The methods for stability analysis and control design are based on time domain and frequency domain approaches for continuous time and sampled data systems linear and nonlinear systems This volume is a valuable source of reference for control practitioners graduate students and scientists researching practical as well as theoretical solutions to a variety of control problems inevitably influenced by the presence of time delays The contents are organized in three parts Interconnected Systems analysis Modeling and and Analysis for Delay systems and Stabilization and Control Strategies for Delay Systems This volume presents a selection of 19 contributions presented in the 4th DelSys Workshop which took place in Gif sur Yvette France November 25 27 2015

#### **Stability by Liapunov's Matrix Function Method**

**with Applications** A.A. Martynyuk,1998-08-03 Provides a systematic study of matrix Liapunov functions incorporating new techniques for the qualitative analysis of nonlinear systems encountered in a wide variety of real world situations

#### **Defect**

**Correction Methods** K. Böhmer,H.J. Stetter,2012-12-06 Ten years ago the term defect correction was introduced to characterize a class of methods for the improvement of an approximate solution of an operator equation This class includes many well known techniques e g Newton s method but also some novel approaches which have turned out to be quite efficient Meanwhile a large number of papers and reports scattered over many journals and institutions have appeared in this area Therefore a working conference on Error Asymptotics and Defect Corrections was organized by K Bohmer V Pereyra and H J Stetter at the Mathematisches Forschungsinstitut Oberwolfach in July 1983 a meeting which aimed at bringing together a good number of the scientists who are active in this field Altogether 26 persons attended whose interests covered a wide spectrum from theoretical analyses to applications where defect corrections may be utilized a list of the participants may be found in the Appendix Most of the colleagues who presented formal lectures at the meeting agreed to publish their reports in this volume It would be presumptuous to call this book a state of the art report in defect corrections It is rather a collection of snapshots of activities which have been going on in a number of segments on the frontiers of this area No

systematic coverage has been attempted Some articles focus strongly on the basic concepts of defect correction but in the majority of the contributions the defect correction ideas appear rather as instruments for the attainment of some specified goal

*Finite Frequency Analysis and Synthesis for Singularly Perturbed Systems* Chenxiao Cai,Zidong Wang,Jing Xu,Yun Zou,2016-09-28 This book is a self contained collection of recent research findings providing a comprehensive and systematic unified framework for both analysis and synthesis for singularly perturbed systems It paves the way for the gap between frequency domain transfer function based results and time domain state space based results to be bridged It is divided into three parts focusing on fundamental background of singular perturbation general singular perturbation methodologies and time scale techniques and the theoretical foundation of finite frequency control the analysis and synthesis of singularly perturbed systems and real world engineering applications implementing the results developed in systems like wind turbines and autonomous aerial vehicle hovering It also presents solutions to analysis and design problems in terms of linear matrix inequalities Lastly it provides valuable reference material for researchers who wish to explore the design of controllers for such systems

Analytic Perturbation Theory and Its Applications Konstantin E. Avrachenkov,Jerzy A. Filar,Phil G. Howlett,2013-12-11 Mathematical models are often used to describe complex phenomena such as climate change dynamics stock market fluctuations and the Internet These models typically depend on estimated values of key parameters that determine system behavior Hence it is important to know what happens when these values are changed The study of single parameter deviations provides a natural starting point for this analysis in many special settings in the sciences engineering and economics The difference between the actual and nominal values of the perturbation parameter is small but unknown and it is important to understand the asymptotic behavior of the system as the perturbation tends to zero This is particularly true in applications with an apparent discontinuity in the limiting behavior the so called singularly perturbed problems

*Analytic Perturbation Theory and Its Applications* includes a comprehensive treatment of analytic perturbations of matrices linear operators and polynomial systems particularly the singular perturbation of inverses and generalized inverses It also offers original applications in Markov chains Markov decision processes optimization and applications to Google PageRank and the Hamiltonian cycle problem as well as input retrieval in linear control systems and a problem section in every chapter to aid in course preparation

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