

# Singular- perturbation theory

An introduction with  
applications

Donald R. Smith

# Singular Perturbation Theory An Introduction With Applications

**Carmen Chicone**



## **Singular Perturbation Theory An Introduction With Applications:**

**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

*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 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

*Ordinary Differential Equations with Applications* Carmen Chicone, 2006-05-18 Based on a one year course taught by the author to graduates at the University of Missouri this book provides a student friendly account of some of the standard topics encountered in an introductory course of ordinary differential equations In a second semester these ideas can be expanded by introducing more advanced concepts and applications A central theme in the book is the use of Implicit Function Theorem while the latter sections of the book introduce the basic ideas of perturbation theory as applications of this Theorem The book also contains material differing from standard treatments for example the Fiber Contraction Principle is used to prove the smoothness of functions that are obtained as fixed points of contractions The ideas introduced in this section can be extended to infinite dimensions

**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

*Investigation of Spatial Control Strategies with Application to Advanced Heavy Water Reactor* Ravindra Munje, Balasaheb Patre, Akhilanand Tiwari, 2017-10-13 This book examines the different spatial control techniques for regulation of spatial power distribution in advanced heavy water reactors AHWR It

begins with a review of the literature pertinent to the modeling and control of large reactors It also offers a nodal core model based on finite difference approximation since the AHWR core is considered to be divided into 17 relatively large nodes Further it introduces a nonlinear model characterizing important thermal hydraulics parameters of AHWR and integrates it into the neutronics model to obtain a coupled neutronics thermal hydraulics model of AHWR The book also presents a vectorized nonlinear model of AHWR and implements it in MATLAB Simulink environment The model of the reactor is then linearized at the rated power and put into standard state variable form It is characterized by 90 states 5 inputs and 18 outputs Lastly it discusses control techniques for a nonlinear model of AHWR This book will prove to be a valuable resource for professional engineers and implementation specialists researchers and students

**The Journal of Integral Equations and Applications**, 2012

*Theory and Application of Digital Control* A. K. Mahalanabis, 2014-05-20 Theory and Application of Digital Control contains the proceedings of the IFAC Symposium held at New Delhi India on January 5 7 1982 This book particularly presents the texts of the five plenary talks and the 110 papers of the symposium This book organizes the papers into 109 chapters with nearly one third of the papers focus on digital control particularly software and hardware of control using microcomputers computer aided design and adaptive control and modeling for digital control Another set of papers deal with several applications of digital control techniques in solving interesting problems of socio economic systems electrical power systems bio systems and artificial satellites The reader will benefit hugely from the topics in this book that span several important theoretical and applied areas of the fast changing topic of digital control

**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

**Quaestiones Mathematicae**, 2002

*Dynamics and Vibrations* Seyed Habibollah Hashemi Kachapi, Davood Domairry Ganji, 2013-07-18

Dynamical and vibratory systems are basically an application of mathematics and applied sciences to the solution of real world problems Before being able to solve real world problems it is necessary to carefully study dynamical and vibratory systems and solve all available problems in case of linear and nonlinear equations using analytical and numerical methods It is of great importance to study nonlinearity in dynamics and vibration because almost all applied processes act nonlinearly and on the other hand nonlinear analysis of complex systems is one of the most important and complicated tasks especially in engineering and applied sciences problems There are probably a handful of books on nonlinear dynamics and vibrations analysis Some of these books are written at a fundamental level that may not meet ambitious engineering program requirements Others are specialized in certain fields of oscillatory systems including modeling and simulations In this book we attempt to strike a balance between theory and practice fundamentals and advanced subjects and generality and

specialization None of the books in this area have completely studied and analyzed nonlinear equation in dynamical and vibratory systems using the latest analytical and numerical methods so that the user can solve the problems without the need of studying too many different references Thereby in this book by the use of the latest analytic numeric laboratorial methods and using more than 300 references like books papers and the researches done by the authors and by considering almost all possible processes and situation new theories has been proposed to encounter applied problems in engineering and applied sciences In this way the user bachelor s master s and PhD students university teachers and even in research centers in different fields of mechanical civil aerospace electrical chemical applied mathematics physics and etc can encounter such systems confidently In the different chapters of the book not only are the linear and especially nonlinear problems with oscillatory form broadly discussed but also applied examples are practically solved by the proposed methodology

*Introduction to Singular Perturbations* Robert E. Jr. O'Malley, 2012-12-02 Introduction to Singular Perturbations provides an overview of the fundamental techniques for obtaining asymptotic solutions to boundary value problems This text explores singular perturbation techniques which are among the basic tools of several applied scientists This book is organized into eight chapters wherein Chapter 1 discusses the method of matched asymptotic expansions which has been frequently applied to several physical problems involving singular perturbations Chapter 2 considers the nonlinear initial value problem to illustrate the regular perturbation method and Chapter 3 explains how to construct asymptotic solutions for general linear equations Chapter 4 discusses scalar equations and nonlinear system whereas Chapters 5 and 6 explain the contrasts for initial value problems where the outer expansion cannot be determined without obtaining the initial values of the boundary layer correction Chapters 7 and 8 deal with boundary value problem that arises in the study of adiabatic tubular chemical flow reactors with axial diffusion This monograph is a valuable resource for applied mathematicians engineers researchers students and readers whose interests span a variety of fields

*Perturbation Methods in the Computer Age* David C. Wilcox, 1995

*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

*The Theory of Singular Perturbations* E.M.

de Jager, J.F. Furu, 1996-11-08 The subject of this textbook is the mathematical theory of singular perturbations which despite its respectable history is still in a state of vigorous development Singular perturbations of cumulative and of boundary layer type are presented Attention has been given to composite expansions of solutions of initial and boundary value problems for ordinary and partial differential equations linear as well as quasilinear also turning points are discussed The main emphasis lies on several methods of approximation for solutions of singularly perturbed differential equations and on the mathematical justification of these methods The latter implies a priori estimates of solutions of differential equations this involves the application of Gronwall's lemma maximum principles energy integrals fixed point theorems and Gding's theorem for general elliptic equations These features make the book of value to mathematicians and researchers in the engineering sciences interested in the mathematical justification of formal approximations of solutions of practical perturbation problems The text is self-contained and each chapter is concluded with some exercises **Advanced Mathematical Methods with Maple**

Derek Richards, 2002 A user friendly student guide to computer assisted algebra with mathematical software packages such as Maple **Singular Perturbations and Time Scales in the Design of Digital Flight Control Systems** Desineni S.

Naidu, 1988 *New Technical Books* New York Public Library, 1986 **Geometric Singular Perturbation Theory**

**Beyond the Standard Form** Martin Wechselberger, 2020-02-21 This volume provides a comprehensive review of multiple scale dynamical systems Mathematical models of such multiple scale systems are considered singular perturbation problems and this volume focuses on the geometric approach known as Geometric Singular Perturbation Theory GSPT It is the first of its kind that introduces the GSPT in a coordinate independent manner This is motivated by specific examples of biochemical reaction networks electronic circuit and mechanic oscillator models and advection reaction diffusion models all with an inherent non uniform scale splitting which identifies these examples as singular perturbation problems beyond the standard form The contents cover a general framework for this GSPT beyond the standard form including canard theory concrete applications and instructive qualitative models It contains many illustrations and key pointers to the existing literature The target audience are senior undergraduates graduate students and researchers interested in using the GSPT toolbox in nonlinear science either from a theoretical or an application point of view Martin Wechselberger is Professor at the School of Mathematics Statistics University of Sydney Australia He received the J D Crawford Prize in 2017 by the Society for Industrial and Applied Mathematics SIAM for achievements in the field of dynamical systems with multiple time scales

*Subject Guide to Books in Print*, 1993

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