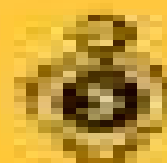


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J K Kevorkian, J D Cole



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Perturbation Methods in Applied Mathematics J. Kevorkian, J.D. Cole, 2013-03-09 This book is a revised and updated version including a substantial portion of new material of J D Cole's text *Perturbation Methods in Applied Mathematics* Ginn Blaisdell 1968 We present the material at a level which 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 The applied mathematician attempting to understand or solve a physical problem very often uses a perturbation procedure In doing this he usually draws on a backlog of experience gained from the solution of similar examples rather than on some general theory of perturbations The aim of this book is to survey these perturbation methods especially in connection with differential equations in order to illustrate certain general features common to many examples The basic ideas however are also applicable to integral equations integrodifferential equations and even to difference equations In essence a perturbation procedure consists of constructing the solution for a problem involving a small parameter ϵ either in the differential equation or the boundary conditions or both when the solution for the limiting case $\epsilon = 0$ is known The main mathematical tool used is asymptotic expansion with respect to a suitable asymptotic sequence of functions of ϵ *Perturbation Methods in Applied Mathematics* Julian D. Cole, 1968

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Singular Perturbation Methods for Ordinary Differential Equations Robert E., Jr. O'Malley, 2012-12-06 This book results from various lectures given in recent years Early drafts were used for several single semester courses on singular perturbation methods given at Rensselaer and a more complete version was used for a one year course at the Technische

Universitat Wien Some portions have been used for short lecture series at Universidad Central de Venezuela West Virginia University the University of Southern California the University of California at Davis East China Normal University the University of Texas at Arlington Universita di Padova and the University of New Hampshire among other places As a result I ve obtained lots of valuable feedback from students and listeners for which I am grateful This writing continues a pattern Earlier lectures at Bell Laboratories at the University of Edinburgh and New York University and at the Australian National University led to my earlier works 1968 1974 and 1978 All seem to have been useful for the study of singular perturbations and I hope the same will be true of this monograph I ve personally learned much from reading and analyzing the works of others so I would especially encourage readers to treat this book as an introduction to a diverse and exciting literature The topic coverage selected is personal and reflects my current opinions An attempt has been made to encourage a consistent method of approaching problems largely through correcting outer limits in regions of rapid change Formal proofs of correctness are not emphasized

Singular Perturbation Methods in Control Petar V. Kokotovic, 1999

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Perturbation Methods in Fluid Mechanics Milton Van Dyke, 1964

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 Perturbation Methods in Matrix Analysis and Control Mihail M. Konstantinov, Petko Hr Petkov, 2020-04-06 Notation and preliminaries Perturbation problems Splitting operators and Lyapunov majorants Schur decomposition Hamiltonian matrices basic relations Hamiltonian matrices asymptotic analysis Hamiltonian matrices non local analysis Orthogonal canonical forms Feedback synthesis problem Random Perturbation Methods with Applications in Science and Engineering Anatoli V. Skorokhod, Frank C. Hoppensteadt, Habib D. Salehi, 2007-06-21 This book develops methods for describing random dynamical systems and it illustrates how the methods can be used in a variety of applications Appeals to researchers and graduate students who require tools to investigate stochastic systems

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