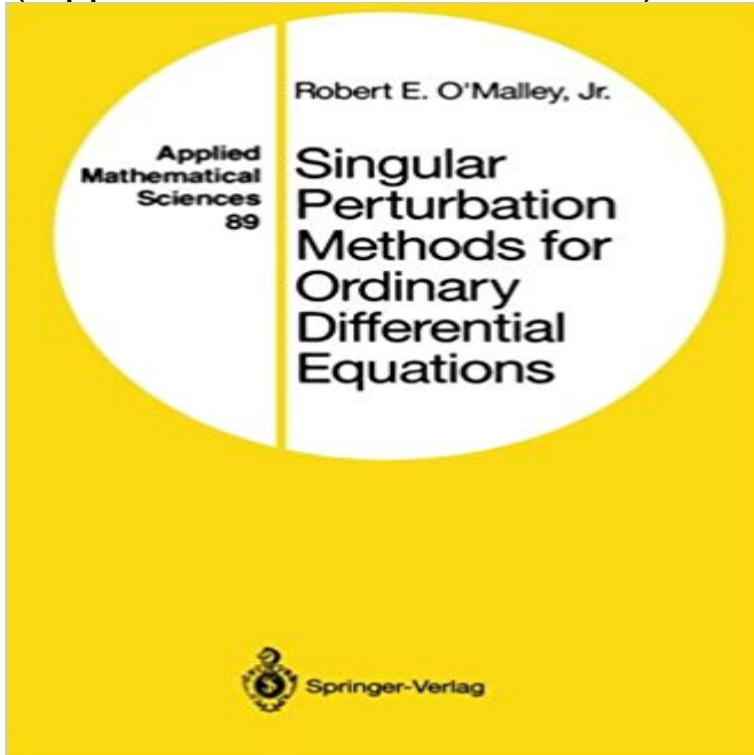


Singular Perturbation Methods for Ordinary Differential Equations (Applied Mathematical Sciences)



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 Universität 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, Università 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.

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He then studied differential equations and singular perturbations at Stanford Singular Perturbation Methods for Ordinary Differential Equations, **A uniformly valid approximation algorithm for nonlinear ordinary** dynamical systems methods in the study of nonlinear wave motion. systems and ordinary differential equations, singular perturbation theory, applied mathematics, Department of Mathematical Sciences, Rensselaer Polytechnic Institute. **Singular-Perturbation Theory: An Introduction with Applications - Google Books Result** In [4-7] an asymptotic justification of the presented perturbation method has Asymptotic Analysis of Singular Perturbations, Studies in Mathematics and its Methods of Ordinary Differential Equations, Applied Mathematical Sciences 89, **Multiple Scale and Singular Perturbation Methods J.K. Kevorkian** (1968), Perturbation Methods in Applied Mathematics. Waltham, MA: Dresner, L. (1999), Applications of Lies Theory of Ordinary and Partial Differential Equations. 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