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J. Kevorkian, J. D. Cole



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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

Rigorous Analysis of Multiple-scale Method on Some Singular Perturbation Problems □□□, 2002 *Asymptotic Multiple Scale Method in*

Time Domain Jan Awrejcewicz, Roman Starosta, Grażyna Sypniewska-Kamińska, 2022-05-10 This book offers up novel research which uses analytical approaches to explore nonlinear features exhibited by various dynamic processes Relevant to disciplines across engineering and physics the asymptotic method combined with the multiple scale method is shown to be an efficient and intuitive way to approach mechanics Beginning with new material on the development of cutting edge asymptotic methods and multiple scale methods the book introduces this method in time domain and provides examples of vibrations of systems Clearly written throughout it uses innovative graphics to exemplify complex concepts such as nonlinear stationary and nonstationary processes various resonances and jump pull in phenomena It also demonstrates the simplification of problems through using mathematical modelling by employing the use of limiting phase trajectories to quantify nonlinear phenomena Particularly relevant to structural mechanics in rods cables beams plates and shells as well as mechanical objects commonly found in everyday devices such as mobile phones and cameras the book shows how each system is modelled and how it behaves under various conditions It will be of interest to engineers and professionals in mechanical engineering and structural engineering alongside those interested in vibrations and dynamics It will also be useful to those studying engineering maths and physics

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Perturbations James A. Murdock, 1999-01-01 This book gives a thorough introduction to both regular and singular

perturbation methods for algebraic and differential equations *Applied Mechanics Reviews* ,1996 **Singular**
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