

Multiple Scale And Singular Perturbation Methods

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this book is a revised and updated version including a substantial portion of new material of our text perturbation methods in applied mathematics springer verlag 1981 we present the material at a level that 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 perturbation methods first used by astronomers to predict the effects of small disturbances on the nominal motions of celestial bodies have now become widely used analytical tools in virtually all branches of science a problem lends itself to perturbation analysis if it is close to a simpler problem that can be solved exactly typically this closeness is measured by the occurrence of a small dimensionless parameter ϵ in the governing system consisting of differential equations and boundary conditions so that for $\epsilon \rightarrow 0$ the resulting system is exactly solvable the main mathematical tool used is asymptotic expansion with respect to a suitable asymptotic sequence of functions of ϵ in a regular perturbation problem a straightforward procedure leads to a system of differential equations and boundary conditions for each term in the asymptotic expansion this system can be solved recursively and the accuracy of the result improves as ϵ gets smaller for all values of the independent variables throughout the domain of interest we discuss regular perturbation problems in the first chapter

this book is a revised and updated version including a substantial portion of new material of the authors widely acclaimed earlier text perturbation methods in applied mathematics a new chapter dealing with regular expansions has been added the discussion of layer type singular perturbations has been revised and the coverage of multiple scale and averaging methods has been significantly expanded to reflect recent advances and viewpoints the result is a comprehensive account of the various perturbation techniques currently used in the sciences and engineering and is suitable for a graduate text as well as a reference work on the subject

proceedings of the european control conference 1993 groningen netherlands june 28 july 1 1993

publishes theoretical and applied original papers in dynamic systems theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality

a story about a family who grew up in a house hold where after speaking the english language with a foreign accent from birth to kindergarden the family could communicate with each other well enough but the child discovered that he was having difficulty understanding the teacher and his classmates and his teacher and classmate were having difficulty understanding him the student talked this over with his parents when he returned home the parents realized that they had a delemia that would work it self out after the student attended the class and studied english with the other students the student continued to study his grammar lesson at home and at school with some improvement with losing the foreign accent he could make all a on his test one day he left a book at home that his mother knew that he would need on this day because they were having an opened book test the mother was having difficulty explaining to the front office what she wanted and who she wanted to talk to the mother called the teacher s name and the principal took her to this teacher s room the mother speaking the highly accented english language teacher asked her to slow down and speak clearly when the mother spoke slowly and clearly the teacher understood what the mother was saying much better the mother the teacher the students and the mother s child all realized at this moment that their problem with communication was solved if they all spoke the english grammar slowly and clearly that they could understand each other

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

selected peer reviewed papers from the 2011 international conference on manufacturing science and technology icmst 2011
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this book highlights the transformative impact of these technologies in shaping the future of automation and intelligent systems by integrating computational vision and robotics into various sectors these advancements enable smarter decision making seamless human machine interactions and enhanced efficiency in dynamic environments future applications include autonomous systems in transportation intelligent surveillance and robotic healthcare solutions creating more responsive and adaptive systems that align with the evolving needs of society this book provides an insight into the latest innovations and state of the art research in the fields of computational vision and robotics showcasing their potential to revolutionize industries such as manufacturing agriculture logistics and disaster management it spans a diverse array of topics including computational vision and ai applications advanced image processing and recognition techniques intelligent systems and interaction by merging cutting edge theoretical insights with practical applications this book provides researchers practitioners and students with the essential knowledge and tools to explore and advance within the dynamic field of computational vision and robotics computational vision and robotics highlighted the transformative potential of computational vision and robotics in revolutionizing industries and enhancing quality of life these technologies drive efficiency and precision through automation and intelligent systems reshaping sectors such as manufacturing logistics and agriculture in healthcare computational vision powers advanced diagnostic tools and surgical robotics while robotics fosters personalized assistance and rehabilitation solutions additionally the integration of these technologies in smart cities and innovative infrastructures offers smarter safer and more sustainable urban living environments

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