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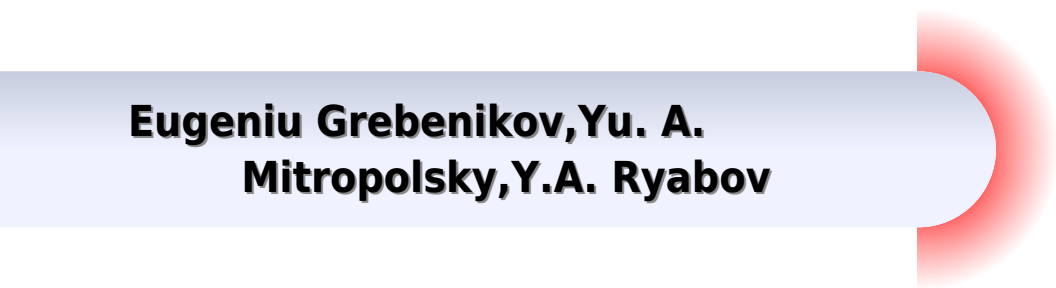
Methods of Accelerated Convergence in Nonlinear Mechanics



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Methods Of Accelerated Convergence In Nonlinear Mechanics

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Mitropolsky, Y.A. Ryabov**



Methods Of Accelerated Convergence In Nonlinear Mechanics:

Methods of Accelerated Convergence in Nonlinear Mechanics Nikolai Nikolaevich Bogoljubov, Jurij A.

Mitropol'skij, Iuri Alekseevich Mitropol'skii, Anatoli Mikhailovich Samoilenko, 1976

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Averaging Methods in Nonlinear Dynamical Systems Jan A. Sanders, Ferdinand Verhulst, 2013-04-17 In this book we have developed the asymptotic analysis of nonlinear dynamical systems We have collected a large number of results scattered throughout the literature and presented them in a way to illustrate both the underlying common theme as well as the diversity of problems and solutions While most of the results are known in the literature we added new material which we hope will also be of interest to the specialists in this field The basic theory is discussed in chapters two and three Improved results are obtained in chapter four

in the case of stable limit sets In chapter five we treat averaging over several angles here the theory is less standardized and even in our simplified approach we encounter many open problems Chapter six deals with the definition of normal form After making the somewhat philosophical point as to what the right definition should look like we derive the second order normal form in the Hamiltonian case using the classical method of generating functions In chapter seven we treat Hamiltonian systems The resonances in two degrees of freedom are almost completely analyzed while we give a survey of results obtained for three degrees of freedom systems The appendices contain a mix of elementary results expansions on the theory and research problems

Differential Equations K.D. Elworthy, W.N. Everitt, E.B. Lee, 2017-11-22 Presents recent developments in the areas of differential equations dynamical systems and control of finite and infinite dimensional systems Focuses on current trends in differential equations and dynamical system research from parameter dependence of solutions to robust control laws for infinite dimensional systems

Asymptotic Methods in Resonance Analytical Dynamics Eugeniu Grebenikov, Yu. A. Mitropolsky, Y.A. Ryabov, 2004-03-02 Asymptotic Methods in Resonance Analytical Dynamics presents new asymptotic methods for the analysis and construction of solutions mainly periodic and quasiperiodic of differential equations with small parameters Along with some background material and theory behind these methods the authors also consider a variety of problems and applications in nonlinear mechanics and oscillation theory The methods examined are based on two types the generalized averaging technique of Krylov Bogolubov and the numeric analytical iterations of Lyapunov Poincaré This text provides a useful source of reference for postgraduates and researchers working in this area of applied

mathematics

Computational Methods with MATLAB® Erik Cuevas, Alberto Luque, Héctor Escobar, 2023-08-24 This textbook provides readers a comprehensive introduction to numerical methods using MATLAB The authors discuss the theory and application of the most often used numerical methods using MATLAB as a computational tool The book is designed to be accessible to readers of varying backgrounds so the presentation focuses more on the description implementation and application of the methods and less on the mathematical details This book not only covers the most important methods and techniques of scientific computation but also contains a great amount of code and implementations facilitating the process of learning and application

Countable Systems of Differential Equations Anatolii M. Samoilenko, Yu. V. Teplinskii, 2011-07-11 No detailed description available for Countable Systems of Differential Equations

An Introduction to Nonlinear Oscillations Ronald E. Mickens, 1981 An introductory account of the equations describing nonlinear oscillations the methods for solving them

Oscillatory Evolution Processes Igor Gumowski, 1989 Very Good No Highlights or Markup all pages are intact

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