

ASYMPTOTIC
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AND APPLICATIONS
Volume 21

Asymptotic Methods in Resonance Analytical Dynamics

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Asymptotic Methods In Resonance Analytical Dynamics

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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 *Asymptotic Methods in Resonance Analytical Dynamics* Evgeni Aleksandrovich Grebenikov, 2004 **Qualitative Analysis of Set-Valued**

Differential Equations Anatoly A. Martynyuk, 2019-04-02 The book discusses set valued differential equations defined in terms of the Hukuhara derivative Focusing on equations with uncertainty i.e. including an unknown parameter it introduces a regularization method to handle them The main tools for qualitative analysis are the principle of comparison of Chaplygin Wazhewsky developed for the scalar vector and matrix valued Lyapunov functions and the method of nonlinear integral inequalities which are used to establish existence stability or boundedness Driven by the question of how to model real processes using a set valued of differential equations the book lays the theoretical foundations for further study in this area It is intended for experts working in the field of qualitative analysis of differential and other types of equations **Computer**

Algebra in Scientific Computing V.G. Ganzha, E.W. Mayr, E.V. Vorozhtsov, 2006-09-12 This book constitutes the refereed proceedings of the 9th International Workshop on Computer Algebra in Scientific Computing CASC 2006 The book presents 25 revised full papers together with 2 invited papers covering various expanding applications of computer algebra to scientific computing the computer algebra systems themselves and the CA algorithms Topics addressed are studies in Gröbner bases polynomial algebra homological algebra quantifier elimination celestial mechanics and more **American Book Publishing Record**, 2003 **Dynamical Systems and Control** Firdaus E. Udwarda, H.I. Weber, George

Leitmann, 2004-05-10 The 11th International Workshop on Dynamics and Control brought together scientists and engineers from diverse fields and gave them a venue to develop a greater understanding of this discipline and how it relates to many areas in science engineering economics and biology The event gave researchers an opportunity to investigate ideas and techniques *Rundbrief der Gesellschaft für Angewandte Mathematik und Mechanik* Gesellschaft für Angewandte Mathematik und Mechanik, 2002 **Hyperbolic Chaos** Sergey P. Kuznetsov, 2012-03-20 Hyperbolic Chaos A Physicist's View presents recent progress on uniformly hyperbolic attractors in dynamical systems from a physical rather than mathematical perspective e.g. the Plykin attractor the Smale Williams solenoid The structurally stable attractors manifest strong stochastic properties but are insensitive to variation of functions and parameters in the dynamical systems Based on these

characteristics of hyperbolic chaos this monograph shows how to find hyperbolic chaotic attractors in physical systems and how to design a physical systems that possess hyperbolic chaos This book is designed as a reference work for university professors and researchers in the fields of physics mechanics and engineering Dr Sergey P Kuznetsov is a professor at the Department of Nonlinear Processes Saratov State University Russia 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 Brain Informatics and Health Dominik Slezak,Ah-Hwee Tan,James F. Peters,Lars Schwabe,2014-07-14 This book constitutes the proceedings of the International Conference on Brain Informatics and Health BIH 2014 held in Warsaw Poland in August 2014 as part of 2014 Web Intelligence Congress WIC 2014 The 29 full papers presented together with 23 special session papers were carefully reviewed and selected from 101 submissions The papers are organized in topical sections on brain understanding cognitive modelling brain data analytics health data analytics brain informatics and data management semantic aspects of biomedical analytics healthcare technologies and systems analysis of complex medical data understanding of information processing in brain neuroimaging data processing strategies advanced methods of interactive data mining for personalized medicine

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