

International Series of Numerical Mathematics

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Asymptotic Methods in Mechanics of Solids

 Birkhäuser

Asymptotic Methods In Mechanics

**Igor Andrianov, Jan
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Asymptotic Methods In Mechanics:

Asymptotic Methods in Mechanics R[é]mi Vaillancourt, Andrei L. Smirnov, 1993-12-21 Asymptotic methods constitute an important area of both pure and applied mathematics and have applications to a vast array of problems This collection of papers is devoted to asymptotic methods applied to mechanical problems primarily thin structure problems The first section presents a survey of asymptotic methods and a review of the literature including the considerable body of Russian works in this area This part may be used as a reference book or as a textbook for advanced undergraduate or graduate students in mathematics or engineering The second part presents original papers containing new results Among the key features of the book are its analysis of the general theory of asymptotic integration with applications to the theory of thin shells and plates and new results about the local forms of vibrations and buckling of thin shells which have not yet made their way into other monographs on this subject *Asymptotic methods in mechanics of solids* Svetlana M. Bauer, Sergei B. Filippov, Andrei L. Smirnov, Petr E. Tovstik, Rémi Vaillancourt, 2015-05-30 The construction of solutions of singularly perturbed systems of equations and boundary value problems that are characteristic for the mechanics of thin walled structures are the main focus of the book The theoretical results are supplemented by the analysis of problems and exercises Some of the topics are rarely discussed in the textbooks for example the Newton polyhedron which is a generalization of the Newton polygon for equations with two or more parameters After introducing the important concept of the index of variation for functions special attention is devoted to eigenvalue problems containing a small parameter The main part of the book deals with methods of asymptotic solutions of linear singularly perturbed boundary and boundary value problems without or with turning points respectively As examples one dimensional equilibrium dynamics and stability problems for rigid bodies and solids are presented in detail Numerous exercises and examples as well as vast references to the relevant Russian literature not well known for an English speaking reader makes this a indispensable textbook on the topic **Asymptotic Methods in Fluid Mechanics: Survey and Recent Advances** Herbert Steinrück, 2012-01-29 A survey of asymptotic methods in fluid mechanics and applications is given including high Reynolds number flows interacting boundary layers marginal separation turbulence asymptotics and low Reynolds number flows as an example of hybrid methods waves as an example of exponential asymptotics and multiple scales methods in meteorology **Asymptotical Mechanics of Thin-Walled Structures** Igor V. Andrianov, Jan Awrejcewicz, Leonid I. Manevitch, 2013-06-29 In this book a detailed and systematic treatment of asymptotic methods in the theory of plates and shells is presented The main features of the book are the basic principles of asymptotics and their applications traditional approaches such as regular and singular perturbations as well as new approaches such as the composite equations approach The book introduces the reader to the field of asymptotic simplification of the problems of the theory of plates and shells and will be useful as a handbook of methods of asymptotic integration Providing a state of the art review of asymptotic applications this book will be useful as an introduction to the field for novices as well as a reference

book for specialists *Introduction to Asymptotic Methods* David Y. Gao, Vadim A. Krysko, 2006-05-03 Among the theoretical methods for solving many problems of applied mathematics physics and technology asymptotic methods often provide results that lead to obtaining more effective algorithms of numerical evaluation Presenting the mathematical methods of perturbation theory *Introduction to Asymptotic Methods* reviews the most important m **Asymptotic Methods in the Theory of Plates with Mixed Boundary Conditions** Igor Andrianov, Jan Awrejcewicz, Vladyslav Danishevs'kyy, Andrey Ivankov, 2014-02-06 *Asymptotic Methods in the Theory of Plates with Mixed Boundary Conditions* comprehensively covers the theoretical background of asymptotic approaches and their use in solving mechanical engineering oriented problems of structural members primarily plates statics and dynamics with mixed boundary conditions The first part of this book introduces the theory and application of asymptotic methods and includes a series of approaches that have been omitted or not rigorously treated in the existing literature These lesser known approaches include the method of summation and construction of the asymptotically equivalent functions methods of small and large delta and the homotopy perturbations method The second part of the book contains original results devoted to the solution of the mixed problems of the theory of plates including statics dynamics and stability of the studied objects In addition the applicability of the approaches presented to other related linear or nonlinear problems is addressed Key features Includes analytical solving of mixed boundary value problems Introduces modern asymptotic and summation procedures Presents asymptotic approaches for nonlinear dynamics of rods beams and plates Covers statics dynamics and stability of plates with mixed boundary conditions Explains links between the Adomian and homotopy perturbation approaches *Asymptotic Methods in the Theory of Plates with Mixed Boundary Conditions* is a comprehensive reference for researchers and practitioners working in the field of Mechanics of Solids and Mechanical Engineering and is also a valuable resource for graduate and postgraduate students from Civil and Mechanical Engineering **Applied Asymptotic Methods in Nonlinear Oscillations** Yuri A. Mitropolsky, Nguyen Van Dao, 2013-03-09 Many dynamical systems are described by differential equations that can be separated into one part containing linear terms with constant coefficients and a second part relatively small compared with the first containing nonlinear terms Such a system is said to be weakly nonlinear The small terms rendering the system nonlinear are referred to as perturbations A weakly nonlinear system is called quasi linear and is governed by quasi linear differential equations We will be interested in systems that reduce to harmonic oscillators in the absence of perturbations This book is devoted primarily to applied asymptotic methods in nonlinear oscillations which are associated with the names of N M Krylov N N Bogoliubov and Yu A Mitropolskii The advantages of the present methods are their simplicity especially for computing higher approximations and their applicability to a large class of quasi linear problems In this book we confine ourselves basically to the scheme proposed by Krylov Bogoliubov as stated in the monographs 6 211 We use these methods and also develop and improve them for solving new problems and new classes of nonlinear differential equations Although these methods have

many applications in Mechanics Physics and Technique we will illustrate them only with examples which clearly show their strength and which are themselves of great interest A certain amount of more advanced material has also been included making the book suitable for a senior elective or a beginning graduate course on nonlinear oscillations

Asymptotic Methods in Quantum Mechanics S.H. Patil, K.T. Tang, 2012-12-06 Quantum mechanics and the Schrodinger equation are the basis for the description of the properties of atoms molecules and nuclei The development of reliable meaningful solutions for the energy eigenfunctions of these many is a formidable problem The usual approach for obtaining particle systems the eigenfunctions is based on their variational extremum property of the expectation values of the energy However the complexity of these variational solutions does not allow a transparent compact description of the physical structure There are some properties of the wave functions in some specific spatial domains which depend on the general structure of the Schrodinger equation and the electromagnetic potential These properties provide very useful guidelines in developing simple and accurate solutions for the wave functions of these systems and provide significant insight into their physical structure This point though of considerable importance has not received adequate attention Here we present a description of the local properties of the wave functions of a collection of particles in particular the asymptotic properties when one of the particles is far away from the others The asymptotic behaviour of this wave function depends primarily on the separation energy of the outmost particle The universal significance of the asymptotic behaviour of the wave functions should be appreciated at both research and pedagogic levels This is the main aim of our presentation here

Mechanics and Physics of Structured Media Igor Andrianov, Simon Gluzman, Vladimir Mityushev, 2022-01-20 Mechanics and Physics of Structured Media Asymptotic and Integral Methods of Leonid Filshtinsky provides unique information on the macroscopic properties of various composite materials and the mathematical techniques key to understanding their physical behaviors The book is centered around the arguably monumental work of Leonid Filshtinsky His last works provide insight on fracture in electromagnetic elastic systems alongside approaches for solving problems in mechanics of solid materials Asymptotic methods the method of complex potentials wave mechanics viscosity of suspensions conductivity vibration and buckling of functionally graded plates and critical phenomena in various random systems are all covered at length Other sections cover boundary value problems in fracture mechanics two phase model methods for heterogeneous nanomaterials and the propagation of acoustic electromagnetic and elastic waves in a one dimensional periodic two component material Covers key issues around the mechanics of structured media including modeling techniques fracture mechanics in various composite materials the fundamentals of integral equations wave mechanics and more Discusses boundary value problems of materials techniques for predicting elasticity of composites and heterogeneous nanomaterials and their statistical description Includes insights on asymptotic methods wave mechanics the mechanics of piezo materials and more Applies homogenization concepts to various physical systems

Group-Theoretic Methods in Mechanics and Applied Mathematics D.M. Klimov, V. Ph.

Zhuravlev,2014-04-21 Group analysis of differential equations has applications to various problems in nonlinear mechanics and physics Group Theoretic Methods in Mechanics and Applied Mathematics systematizes the group analysis of the main postulates of classical and relativistic mechanics Exact solutions are given for the following equations dynamics of rigid body heat transfer wave hydrodynamics Thomas Fermi and more The author pays particular attention to the application of group analysis to developing asymptotic methods for problems with small parameters This book is designed for a broad audience of scientists engineers and students in the fields of applied mathematics mechanics and physics Studies in Dynamics and the Application of Asymptotic Methods in Solid Mechanics Bruce Einar Bennett,1979 **Group-Theoretic Methods in**

Mechanics and Applied Mathematics D.M. Klimov,V. Ph. Zhuravlev,2002-08-15 Group analysis of differential equations has applications to various problems in nonlinear mechanics and physics For the first time this book gives the systematic group analysis of main postulates of classical and relativistic mechanics The consistent presentation of Lie group theory is illustrated by plentiful examples Symmetries and conservation laws of differential equations are studied Specific equations and problems of mechanics and physics are considered and exact solutions are given for the following equations dynamics of rigid body heat transfer wave hydrodynamics Thomas Fermi and more The author pays particular attention to the application of group analysis to developing asymptotic methods of applied mathematics in problems with small parameter The methods are used to solve basic equations Van Der Pol s equation Duffing equation etc encountered in the theory of nonlinear oscillations This book is intended for a wide range of scientists engineers and students in the fields of applied mathematics mechanics and physics **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 Poincar This text provides a useful source of reference for postgraduates and researchers working in this area of applied mathematics

Perturbation and Asymptotic Methods in Mechanics and Waves F. M. Talbot,1982 **Applied Asymptotic Methods in Nonlinear Oscillations** Yuri A. Mitropolsky,Nguyen Van Dao,1997-07-31 The present volume addresses the application of asymptotic methods in nonlinear oscillations Such methods see a large variety of applications in physics mechanics and engineering The advantages of using asymptotic methods in solving nonlinear problems are firstly simplicity especially for computing higher approximations and secondly their applicability to a large class of quasi linear systems In contrast to the existing literature this book is concerned with the applied aspects of the methods concerned and also contains problems relevant to the everyday practice of engineers physicists and mathematicians Usually dynamics systems are classified and

examined by their degrees of freedom This book is constructed from another point of view based upon the originating mechanism of the oscillations free oscillation self excited oscillation forced oscillation and parametrically excited oscillation The text has been designed to cover material from the elementary to the more advanced in increasing order of difficulty It is of considerable interest to both students and researchers in applied mathematics physical and mechanical sciences and engineering

Asymptotology Igor V. Andrianov, Leonid I. Manevitch, 2013-12-11 Asymptotic methods belong to the perhaps most romantic area of modern mathematics They are widely known and have been used in mechanics physics and other exact sciences for many many decades But more than this asymptotic ideas are found in all branches of human knowledge indeed in all areas of life In this broader context they have not and perhaps cannot be fully formalized However they are marvelous they leave room for fantasy guesses and intuition they bring us very near to the border of the realm of art Many books have been written and published about asymptotic methods Most of them presume a mathematically sophisticated reader The authors here attempt to describe asymptotic methods on a more accessible level hoping to address a wider range of readers They have avoided the extreme of banishing formulae entirely as done in some popular science books that attempt to describe mathematical methods with no mathematics This is impossible and not wise Rather the authors have tried to keep the mathematics at a moderate level At the same time using simple examples they think they have been able to illustrate all the key ideas of asymptotic methods and approaches to depict in detail the results of their application to various branches of knowledge from astronomy mechanics and physics to biology psychology and art The book is supplemented by several appendices one of which contains the profound ideas of R G

Shell Structures, Theory and Applications Wojciech Pietraszkiewicz, Czeslaw Szymczak, 2026-02-20 Shells are basic structural elements of modern technology Examples of shell structures include automobile bodies domes water and oil tanks pipelines ship hulls aircraft fuselages turbine blades loudspeaker cones but also balloons parachutes biological membranes a human skin a bottle of wine or a beer can This volume contains full texts of over 100 papers presented by specialists from over 20 countries at the 8th Conference Shell Structures Theory and Applications 12-14 October 2005 in Jurata Poland The aim of the meeting was to bring together scientists designers engineers and other specialists in shell structures in order to discuss important results and new ideas in this field The goal is to pursue more accurate theoretical models to develop more powerful and versatile methods of analysis and to disseminate expertise in design and maintenance of shell structures Among the authors there are many distinguished specialists of shell structures including the authors of general lectures I V Andrianov Ukraine V A Eremeyev Russia A Ibrahimbegovic France P Klosowski Poland B H Kruplin Germany E Ramm Germany J M Rotter UK and D Steigmann USA The subject area of the papers covers various theoretical models and numerical analyses of strength dynamics stability optimization etc of different types of shell structures their design and maintenance as well as modelling of some surface related mechanical phenomena

Asymptotical Mechanics of Composites Igor V. Andrianov, Jan Awrejcewicz, Vladyslav V.

Danishevskyy,2017-11-09 In this book the authors show that it is possible to construct efficient computationally oriented models of multi parameter complex systems by using asymptotic methods which can owing to their simplicity be directly used for controlling processes arising in connection with composite material systems The book focuses on this asymptotic modeling based approach because it allows us to define the most important out of numerous parameters describing the system or in other words the asymptotic methods allow us to estimate the sensitivity of the system parameters Further the book addresses the construction of nonlocal and higher order homogenized models Local fields on the micro level and the influence of so called non ideal contact between the matrix and inclusions are modeled and investigated The book then studies composites with non regular structure and cluster type composite conductivity and analyzes edge effects in fiber composite materials Transition of load from a fiber to a matrix for elastic and viscoelastic composites various types of fiber composite fractures and buckling of fibers in fiber reinforced composites is also investigated Last but not least the book includes studies on perforated membranes plates and shells as well as the asymptotic modeling of imperfect nonlinear interfaces

Asymptotic Analysis and Boundary Layers Jean Cousteix, Jacques Mauss,2007-03-22 This book presents a new method of asymptotic analysis of boundary layer problems the Successive Complementary Expansion Method SCEM The first part is devoted to a general presentation of the tools of asymptotic analysis It gives the keys to understand a boundary layer problem and explains the methods to construct an approximation The second part is devoted to SCEM and its applications in fluid mechanics including external and internal flows

Recent Approaches in the Theory of Plates and Plate-Like Structures Holm Altenbach, Svetlana Bauer, Victor A. Eremeyev, Gennadi I. Mikhasev, Nikita F. Morozov,2022-01-01 This book presents the various approaches in establishment the basic equations of one and two dimensional structural elements In addition the boundaries of validity of the theories and the estimation of errors in approximate theories are given Many contributions contain not only new theories but also new applications which makes the book interesting for researcher and graduate students

Whispering the Strategies of Language: An Mental Journey through **Asymptotic Methods In Mechanics**

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