

N. N. Bogoljubov Ju. A. Mitropoliskii
A. M. Samoilenko

**Methods of Accelerated
Convergence
in Nonlinear Mechanics**



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Methods Of Accelerated Convergence In Nonlinear Mechanics

Camilla Rothe

Methods Of Accelerated Convergence In Nonlinear Mechanics:

Methods of Accelerated Convergence in Nonlinear Mechanics Nikolai Nikolaevich Bogoliubov, Jurij A. Mitropol'skij, Iuri Alekseevich Mitropol'skii, Anatolij Mikhaïlovich Samoilenko, 1976 *Methods of Accelerated Convergence in Nonlinear Mechanics* N.N. Bogoljubov, J.A. Mitropoliskii, A.M. Samoilenko, 2011-11-15 This monograph deals with some of the latest results in nonlinear mechanics obtained recently by the use of a modernized version of Bogoljubov's method of successive changes of variables which ensures rapid convergence. This method, visualised as early as 1934 by Krylov and Bogoljubov, provides an effective tool for solving many interesting problems of nonlinear mechanics. It led in particular to the solution of the problem of the existence of a quasi periodic regime with the restriction that approximate solutions obtained in the general case involved divergent series. Recently making use of the research of Kolmogorov and Arnold, Bogoljubov has modernised the method of successive substitutions in such a way that the convergence of the corresponding expansions is ensured. This book consists of a short Introduction and seven chapters. The first chapter presents the results obtained by Bogoljubov in 1963 on the extension of the method of successive substitutions and the study of quasi periodic solutions applied to non-conservative systems *inter alia* making explicit the dependence of these solutions on the parameter indicating methods of obtaining asymptotic and convergent series for them etc. **Methods of Accelerated Convergence in Nonlinear Mechanics** N.N. Bogoljubov, J.A. Mitropoliskii, A.M. Samoilenko, 2012-08-14 This monograph deals with some of the latest results in nonlinear mechanics obtained recently by the use of a modernized version of Bogoljubov's method of successive changes of variables which ensures rapid convergence. This method, visualised as early as 1934 by Krylov and Bogoljubov, provides an effective tool for solving many interesting problems of nonlinear mechanics. It led in particular to the solution of the problem of the existence of a quasi periodic regime with the restriction that approximate solutions obtained in the general case involved divergent series. Recently making use of the research of Kolmogorov and Arnold, Bogoljubov has modernised the method of successive substitutions in such a way that the convergence of the corresponding expansions is ensured. This book consists of a short Introduction and seven chapters. The first chapter presents the results obtained by Bogoljubov in 1963 on the extension of the method of successive substitutions and the study of quasi periodic solutions applied to non-conservative systems *inter alia* making explicit the dependence of these solutions on the parameter indicating methods of obtaining asymptotic and convergent series for them etc. **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 Parameterdependence of solutions to robust control laws for infinite dimensional systems *Methods of accelerated convergence in nonlinear mechanics*. Bogoliubov Nikolai Nicolaevich Bogoliubov,Iurii Olekciowydr Mytropolski,Anatolii Mikhailovich Somoilenko,1976 Computational Methods for Crashworthiness Workshop on Computational Methods for Crashworthiness,1993 **Problems of Modern**

Mathematical Physics ,2000 **Complex Sciences** Jie Zhou,2009-06-26 I was invited to join the Organizing Committee of the First International Conference on Complex Sciences Theory and Applications Complex 2009 as its ninth member At that moment eight distinguished colleagues General Co chairs Eugene Stanley and Gaoxi Xiao Technical Co chairs Jnos Kertesz and Bing Hong Wang Local Co chairs Hengshan Wang and Hong An Che Publicity Team Shi Xiao and Yubo Wang had spent hundreds of hours pushing the conference half way to its birth Ever since then I have been amazed to see hundreds of papers flooding in reviewed and commented on by the TPC members Finally more than 200 contributions were listed for the proceedings currently in your hands They include about 200 papers from the main conference selected from more than 320 submissions and about 33 papers from the five collated workshops Complexity Theory of Art and Music COART Causality in Complex Systems ComplexCCS Complex Engineering Networks ComplexEN Modeling and Analysis of Human Dynamics MANDYN Social Physics and its Applications SPA Complex sciences are expanding their colonies at such a dazzling speed that it comes literally impossible for any conference to cover all the frontiers **Numerical-analytic Methods in the Theory of Boundary-value Problems** Nikola? Iosifovich Ronto,Anatoli? Mikha?lovich Samo?lenko,2000 This book contains the main results of the authors investigations on the development and application of numerical analytic methods for ordinary nonlinear boundary value problems BVPs The methods under consideration provide an opportunity to solve the two important problems of the BVP theory namely to establish existence theorems and to build approximation solutions They can be used to investigate a wide variety of BVPs The Appendix written in collaboration with S I Trofimchuk discusses the connection of the new method with the classical Cesari Cesari Hale and Lyapunov Schmidt methods Russian Mathematical Surveys ,2007

BEPI ,1976 **Bulletin of the American Mathematical Society** ,1994 **Nonlinearity** ,1992 Aimed primarily at

mathematicians and physicists interested in research on nonlinear phenomena this journal's coverage ranges from proofs of important theorems to papers presenting ideas conjectures and numerical or physical experiments of significant physical and mathematical interest *6th International Conference on New Theories, Discoveries and Applications of Superconductors and Related Materials* ,2007 Applied Mechanics Reviews ,1975 Automation and Remote Control ,1974 Physics Briefs ,1994 New Concepts in Finite Element Analysis Thomas J. R. Hughes,David K. Gartling,Robert L. Spilker,1981

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