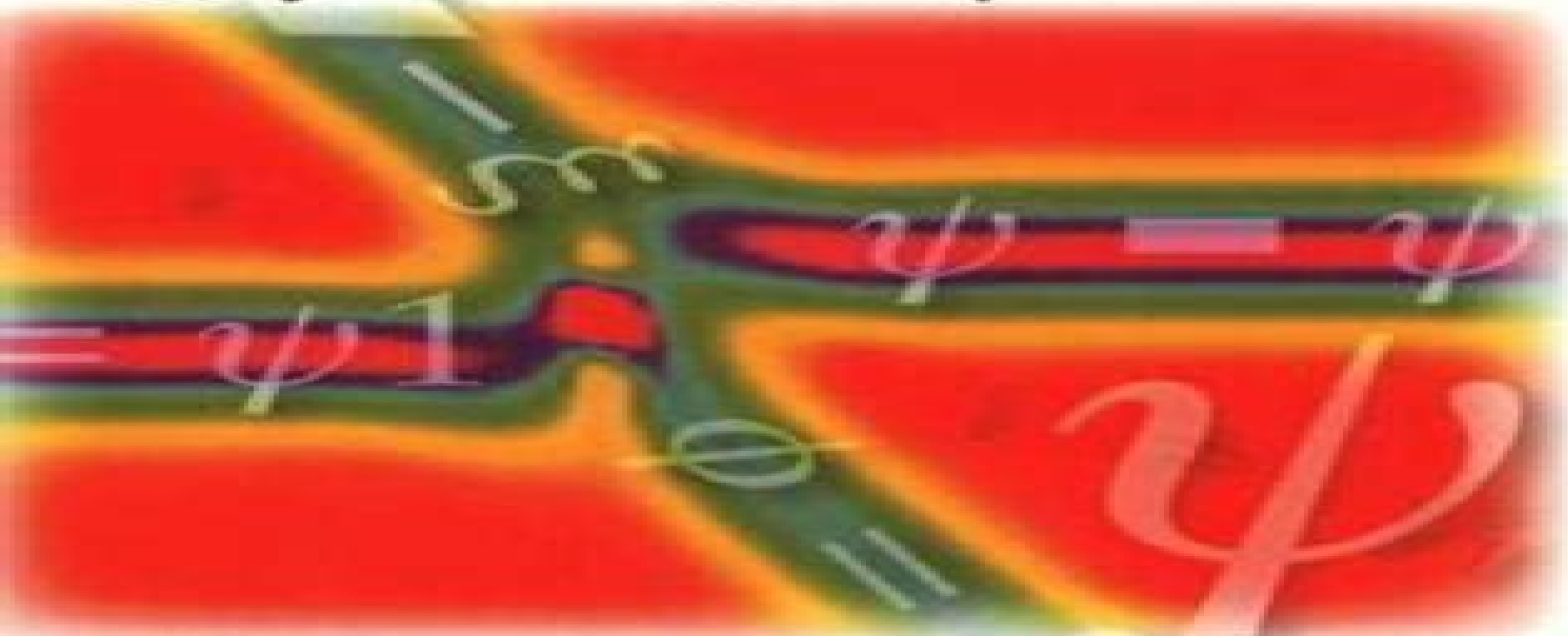


Advances in Nonlinear Waves and Symbolic Computation



Zhenya Yan
Editor



Advances In Nonlinear Waves And Symbolic Computation

JR Anderson



Advances In Nonlinear Waves And Symbolic Computation:

Advances in Nonlinear Waves and Symbolic Computation Zhenya Yan, 2014-05-14 **Advances in Nonlinear Waves and Symbolic Computation** Zhenya Yan, 2009 With the rapid development of science and technology the computer has become an important tool in many science fields Particularly symbolic computation which is one of the most exciting and challenging areas It has been applied in many sciences such as mathematics physics chemistry biology mechanics engineering etc in particular non linear sciences and complex sciences Nowadays many symbolic computation softwares have been used to deal with these problems Up to now there have existed many non linear differential difference systems related to solitons and chaos in the non linear science field In order to understand these complex physical phenomena it is important to research some of their basic properties Because of the complexity of these non linear systems with the symbolic computation this new book presents important research on non linear differential difference systems related to solitons and chaos as well as other non linear sciences in views of constructive algorithms **The Symbolic Computation of Integrability Structures for Partial Differential Equations** Joseph Krasil'shchik, Alexander Verbovetsky, Raffaele Vitolo, 2018-04-03 This is the first book devoted to the task of computing integrability structures by computer The symbolic computation of integrability operator is a computationally hard problem and the book covers a huge number of situations through tutorials The mathematical part of the book is a new approach to integrability structures that allows to treat all of them in a unified way The software is an official package of Reduce Reduce is free software so everybody can download it and make experiments using the programs available at our website [Nonlinear and Modern Mathematical Physics](#) Solomon Manukure, Wen-Xiu Ma, 2024-06-07 This book gathers peer reviewed selected contributions from participants of the 6th International Workshop on Nonlinear and Modern Mathematical Physics NMMP 2022 hosted virtually from June 17 19 2022 Works contained in this volume cover topics like nonlinear differential equations integrable systems Hamiltonian systems inverse scattering transform Painleve's analysis nonlinear wave phenomena and applications numerical methods of nonlinear wave equations quantum integrable systems and more In this book researchers and graduate students in mathematics and related areas will find new methods and tools that only recently have been developed to solve nonlinear problems The sixth edition of the NMMP workshop was organized by Florida A M University in Tallahassee Florida USA with support from the University of South Florida Florida State University Embry Riddle Aeronautical University Savannah State University Prairie View A M University and Beijing Jiaotong University The aim was to bring together researchers from around the world to present their findings and foster collaboration for future research [Information Computing and Applications](#) Chunfeng Liu, Leizhen Wang, Aimin Yang, 2012-09-07 This two volume set of CCIS 307 and CCIS 308 constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications ICICA 2012 held in Chengde China in September 2012 The 330 revised full papers presented in both volumes were carefully reviewed and

selected from 1089 submissions The papers are organized in topical sections on internet computing and applications
 multimedia networking and computing intelligent computing and applications computational statistics and applications
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 Mathematical Structures* Norbert Euler, Da-jun Zhang, 2021-09-06 The third volume in this sequence of books consists of a
 collection of contributions that aims to describe the recent progress in nonlinear differential equations and nonlinear
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 in Fluid Mechanics VIII Matiur Rahman, C. A. Brebbia, 2010 The papers were presented at the eighth International
 Conference on Advances in Fluid Mechanics held in Portugal in 2010 Pref Analytical Properties of Nonlinear Partial
 Differential Equations Alexei Cheviakov, Shanghai Maritime University, 2024-03-22 Nonlinear partial differential equations
 PDE are at the core of mathematical modeling In the past decades and recent years multiple analytical methods to study
 various aspects of the mathematical structure of nonlinear PDEs have been developed Those aspects include C and S
 integrability Lagrangian and Hamiltonian formulations equivalence transformations local and nonlocal symmetries
 conservation laws and more Modern computational approaches and symbolic software can be employed to systematically
 derive and use such properties and where possible construct exact and approximate solutions of nonlinear equations This
 book contains a consistent overview of multiple properties of nonlinear PDEs their relations computation algorithms and a
 uniformly presented set of examples of application of these methods to specific PDEs Examples include both well known
 nonlinear PDEs and less famous systems that arise in the context of shallow water waves and far beyond The book will be of
 interest to researchers and graduate students in applied mathematics physics and engineering and can be used as a basis for
 research study reference and applications **Nonlinear Resonance Analysis** Elena Kartashova, 2010-10-21 Nonlinear
 resonance analysis is a unique mathematical tool that can be used to study resonances in relation to but independently of any
 single area of application This is the first book to present the theory of nonlinear resonances as a new scientific field with its
 own theory computational methods applications and open questions The book includes several worked examples mostly taken

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9780521763608 **Proceedings of the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024), Volume 1** Asit Saha, Santo Banerjee, 2024-09-10 This book covers the latest advancements and applications of nonlinear dynamics in various fields of science and engineering presenting a curated selection of peer reviewed contributions at the 2nd International Conference on Nonlinear Dynamics and Applications ICNDA 2024 at Sikkim Manipal Institute of Technology SMIT Organized by the Department of Mathematics SMIT SMU this international conference provides a platform for scientists researchers and inventors to share their findings and exchange ideas in the ever evolving field of nonlinear dynamics This book comprises three volumes Volume 1 focuses on the investigation of nonlinear waves and plasma dynamics It covers topics such as strong Landau damping electron plasma waves ion acoustic waves dusty plasma dust acoustic waves dust ion acoustic waves kinetic Alfvén waves solitary wave shock waves periodic wave cnoidal wave superperiodic wave soliton resonance lump soliton multi soliton breather wave upper hybrid wave atmospheric internal wave mathematical and analytical methods quantum and relativistic plasmas wave instabilities and interactions fractional and complex systems nonlinear optical phenomena Gaussian laser beam chaos and multistability and other specific plasma studies

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