

Dynamics of Solitary Waves and Periodic Waves in a $(3 + 1)$ -dimensional Nonlinear Evolution Equation

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Received 22 October 2017; Accepted (in revised version) 25 February 2018.

Abstract. The Hirota bilinear method is applied to a generalised $(3 + 1)$ -dimensional nonlinear evolution equation. Using the Riemann theta function, we construct periodic wave solutions of the Eq. (1.1) and discuss their properties. Graphic examples show the propagation of the corresponding waves for different sets of parameters. We also study the asymptotic of periodic waves and their relation with solution solutions.

AMS subject classifications: 35Q51, 35Q53, 35C99, 68W30, 74J35

Key words: $(3 + 1)$ -dimensional generalized nonlinear evolution equation, exact solutions, solitary waves, periodic waves, asymptotic properties.

1. Introduction

Nonlinear evolution equations (NLEEs) represent various phenomena in physics. Finding exact solutions of such equations is an important and tough problem. There are several approaches to NLEEs, including Hirota bilinear method [17], Darboux transformation [23], inverse scattering transformation [3], Lie group method [2] and so on. Further development of these methods allows to study the integrability of various classes of NLEEs and to derive their exact solutions – cf. Refs. [5, 16, 18, 21, 25, 26, 55, 58]. In 1980, Nakamura [31] proposed a method to construct quasi-periodic solutions of NLEEs. Lambert

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Nonlinear Waves 1 Dynamics And Evolution

Akira Hasegawa



Nonlinear Waves 1 Dynamics And Evolution:

Nonlinear Waves 1 Andrei V. Gaponov-Grekhov, Mikhail I. Rabinovich, Jüri Engelbrecht, 2012-12-06 Since 1972 the Schools on Nonlinear Physics in Gorky have been a meeting place for Soviet scientists working in this field Instead of producing for the first time English proceedings it has been decided to present a good cross section of nonlinear physics in the USSR Thus the participants at the last School were invited to provide English reviews and research papers for these two volumes which in the years to come will be followed by the proceedings of forthcoming schools The first volume starts with a historical overview of nonlinear dynamics from Poincaré to the present day and touches topics like attractors nonlinear oscillators and waves turbulence pattern formation and dynamics of structures in nonequilibrium dissipative media It then deals with structures bistabilities instabilities chaos dynamics of defects in 1d systems self organizations solitons spatio temporal structures and wave collapse in optical systems lasers plasmas reaction diffusion systems and solids *Nonlinear Waves* Andrej V. Gaponov-Grekhov, Mikhail I. Rabinovich, Jürj K. Engelbrecht, 1989 **Solitons and Chaos** Ioannis Antoniou, Franklin J. Lambert, 2012-12-06 Solitons and Chaos is a response to the growing interest in systems exhibiting these two complementary manifestations of nonlinearity The papers cover a wide range of topics but share common mathematical notions and investigation techniques An introductory note on eight concepts of integrability has been added as a guide for the uninitiated reader Both specialists and graduate students will find this update on the state of the art useful Key points chaos vs integrability solitons theory and applications dissipative systems Hamiltonian systems maps and cascades direct vs inverse methods higher dimensions Lie groups Painlevé analysis numerical algorithms perturbation methods **Nonlinear Waves I** Andrej V. Gaponov-Grechov, 1989 **High-Tc Superconductivity** Aleksandr S. Davydov, Vadim M. Loktev, 2012-12-06 High Tc Superconductivity is based on a meeting held in Kiev and contains contributions discussing the most recent achievements in this field The book includes reviews and original papers covering theoretical and experimental aspects of the subject Keywords electronic and magnetic properties metallization processes emission and optic spectra lavitation pinning frustration and fluctuations thin films *Nuclear Physics at the Borderlines* Jose M. Arias, Maria I. Gallardo, Manuel Lozano, 2012-12-06 This volume contains the lectures presented by invited speakers at the IV La Rlibida International Summer School on Nuclear Physics This was the IV edition of a summer school organized by our group every three years on topics related to nuclear physics This Summer School was aimed mainly at young nuclear physicists both theoreticians and experimentalists engaged in research work at predoctoral or recent postdoctoral level The topics treated in the three previous editions of the School were Heavy Ion Collisions Theory of Nuclear Structure and Reactions and Nuclear As trophysics This year s School was entitled Nuclear Physics at the Borderlines Special emphasis was placed on those topics along which nuclear physics is expected to develop in the next few years The aim of the School was to provide the attendants with an opportunity to get into close contact with experienced researchers and listen to their account of the present state of

the art in nuclear physics and the main future lines of development Signal Transduction in Photoreceptor Cells Paul A. Hargrave, Klaus P. Hofmann, U. Benjamin Kaupp, 2013-04-09 This book deals with the mechanism of signal transduction in vertebrate and invertebrate photoreceptors It contains contributions on the structure and function of rhodopsin or other G coupled receptors on the regulation of second messengers by enzyme cascade the role of Ca^{2+} in light adaptation control of ionic channels in photoreceptor cells **Nuclear Data for Science and Technology** Syed M. Qaim, 2012-12-06 This book describes the Proceedings of the International Conference on Nuclear Data for Science and Technology held at Jillich in May 1991 The conference was in a series of application oriented nuclear data conferences organized in the past under the auspices of the Nuclear Energy Agency Nuclear Data Committee NEANDC and with the support of the Nuclear Energy Agency Committee on Reactor Physics NEACRP It was the first international conference on nuclear data held in Germany with the scientific responsibility entrusted to the Institute of Nuclear Chemistry of the Research Centre Jillich The scientific programme was established by the International Programme Committee in consultation with the International Advisers and the NEA and IAEA cooperated in the organization A total of 328 persons from 37 countries and five international organizations participated The scope of these Proceedings extends to a wide range of interdisciplinary topics dealing with measurement calculation evaluation and application of nuclear data with a major emphasis on numerical data Both energy and non energy related applications are considered and due attention is given to some fundamental aspects relevant to the understanding of nuclear data **Nonlinear Waves**, 1989 Electron-Electron Correlation Effects in Low-Dimensional Conductors and Superconductors Alexandr A. Ovchinnikov, Ivan I. Ukrainskii, 2012-12-06 Advances in the physics and chemistry of low dimensional systems have been really magnificent in the last few decades Hundreds of quasi one dimensional and quasi two dimensional systems have been synthesized and studied The most popular representatives of quasi one dimensional materials are polyacetylenes CH₁ and conducting donor acceptor molecular crystals TTF TCNQ Examples of quasi two dimensional systems are high temperature superconductors HTSC based on copper oxides La₂CuO₄ YBa₂Cu₃O_{6-y} and organic superconductors based on BEDT-TTF molecules The properties of such one and two dimensional materials are not yet fully understood On the one hand the equations of motion of one dimensional systems are rather simple which facilitates rigorous solutions of model problems On the other hand manifestations of various interactions in one dimensional systems are rather peculiar This refers in particular to electron-electron and electron-phonon interactions Even within the limit of a weak coupling constant electron-electron correlations produce an energy gap in the spectrum of one dimensional metals implying a Mott transition from metal to semiconductor state In all these cases perturbation theory is inapplicable Which is one of the main difficulties on the way towards a comprehensive theory of quasi one dimensional systems This meeting held at the Institute for Theoretical Physics in Kiev May 15-18 1990 was devoted to related problems The papers selected for this volume are grouped into three sections **Quark-Gluon Plasma** Bikash Sinha, Santanu

Pal, Sibaji Raha, 2012-12-06 Quark Gluon Plasma QGP is a state of matter predicted by the theory of strong interactions Quantum Chromodynamics QCD The area of QGP lies at the interface of particle physics field theory nuclear physics and many body theory statistical physics cosmology and astrophysics In its brief history about a decade QGP has seen a rapid convergence of ideas from these previously diverging disciplines This volume includes the lectures delivered by eminent specialists to students without prior experience in QGP Each course thus starts from the basics and takes the students by steps to the current problems The chapters are self contained and pedagogic in style The book may therefore serve as an introduction for advanced graduate students intending to enter this field or for physicists working in other areas Experts in QGP may also find this volume a handy reference Specific examples used to elucidate how theoretical predictions and experimentally accessible quantities may not always correspond to one another make this book ideal for self study for beginners This feature will also make the volume thought provoking for QGP practitioners *Nonlinear Waves* Andrei V. Gaponov-Grekhov, Mikhail I. Rabinovich, Jüri Engelbrecht, 2012-12-06 Since 1972 the Schools on Nonlinear Physics in Gorky have been a meeting place for Soviet scientists working in this field Instead of producing for the first time English proceedings it has been decided to present a good cross section of nonlinear physics in the USSR Thus the participants at the last School were invited to provide English reviews and research papers for these two volumes which in the years to come will be followed by the proceedings of forthcoming schools The second volume deals with dynamical chaos in classical and quantum systems with evolution in chemical systems and self organisation in biology and with applications of nonlinear dynamics to condensed matter sea waves and astrophysics Optimized LCAO Method and the Electronic Structure of Extended Systems Helmut Eschrig, 1989-05-22 Theoretical and numerical details of an optimized LCAO linear combination of atomic orbitals method for the calculation of self consistent bandstructures are given together with a variety of examples The method will be a valuable tool both for researchers engaged in calculations and for scientists looking for numerical results of self consistent bandstructure calculations The presentation starts with an introduction to the modern many body theory of electronic bandstructure The essentials of the representation with a non orthogonal basis and the usual tight binding variants are critically reviewed A variational approach to the optimization of atom like basis orbitals is described together with an SCF procedure for band calculations Complete numerical and graphic results for all elementary metals from lithium to zinc are given **Fluctuational Superconductivity of Magnetic Systems** M. A. Savchenko, Aleksei Viacheslavovich Stefanovich, 1990 Nuclear Astrophysics Manuel Lozano, María I. Gallardo, José M. Arias, 1989 Applied Mechanics and Mechanical Engineering III Xiong Zhou, Hong Hua Tan, 2012-12-13 Selected peer reviewed papers from the 2012 3rd International Conference on Applied Mechanics and Mechanical Engineering ICAMME 2012 November 14 15 2012 Macau *Physics Briefs*, 1993 **Determination of Hydrogen in Materials** Pulat K. Khabibullaev, Boris G. Skorodumov, 1989-12-22 Measuring the hydrogen content in materials is important both for research and for various

applications in material and surface sciences such as hydrogen embrittlement of steel controlled thermonuclear reaction first wall studies and changed material properties caused by dissolved hydrogen Hydrogen is the most difficult atomic species to analyze by traditional methods but nuclear physics methods are particularly suited for this purpose President of the Uzbek SSR Academy of Sciences P K Khabibullaev and Professor B G Skorodumov discuss in this book the characteristics of these methods such as lower detection limits selectivity in respect to different isotopes accuracy depth resolution and maximum detection depth Examples of applications that are dealt with include the determination of material humidity the dating of objects the study of hydrogen diffusion including non stationary processes and the investigation of changes in material properties like superconductivity plasticity and electrical properties due to contamination by hydrogen **Soviet Physics, Uspekhi** ,1990

Optical Solitons in Fibers Akira Hasegawa,1989-07-19 Latest developments associated with two currently active and very important theoretical and practical topics in nonlinear optics namely solitons and fibers are considered in this volume Solitons as analytical solutions of nonlinear partial differential equations were established in 1967 and only five years later Hasegawa and Tappert predicted for the first time theoretically that solitons could be generated in a dielectric fiber In practical terms this work pursued mainly at the AT T Bell Laboratories points to technological advances allowing for an economic and undistorted propagation of signals which will revolutionize telecommunications Starting from an elementary level readily accessible to undergraduates the author a pioneer in the field provides a clear and up to date exposition of both the theoretical background and the most recent experimental results in this new and rapidly evolving field This well written book is well suited for undergraduate or graduate lecture courses and makes easy reading not only for the researcher but also for the interested physicist mathematician and engineer

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