

Solitons And Chaos Research Reports In Physics

Clemens Wendtner

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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 Painleve analysis numerical **Solitons and Chaos** Ioannis Antoniou,1991 algorithms pertubation methods The Painlevé Property Robert Conte, 2012-12-06 The subject this volume is explicit integration that is the analytical as opposed to the numerical solution of all kinds of nonlinear differential equations ordinary differential partial differential finite difference Such equations describe many physical phenomena their analytic solutions particular solutions first integral and so forth are in many cases preferable to numerical computation which may be long costly and worst subject to numerical errors In addition the analytic approach can provide a global knowledge of the solution while the numerical approach is always local Explicit integration is based on the powerful methods based on an in depth study of singularities that were first used by Poincar and subsequently developed by Painlev in his famous Leons de Stockholm of 1895 The recent interest in the subject and in the equations investigated by Painley dates back about thirty years ago arising from three apparently disjoint fields the Ising model of statistical physics and field theory propagation of solitons and dynamical systems The chapters in this volume based on courses given at Cargse 1998 alternate mathematics and physics they are intended to bring researchers entering the field to the level of present Nonlinear Hyperbolic Problems: Theoretical, Applied, and Computational Aspects Andrea research Donato, Francesco Oliveri, 2013-03-08 **Chaotic Dynamics** T. Bountis, 2012-12-06 Many conferences meetings workshops summer schools and symposia on nonlinear dynamical systems are being organized these days dealing with a great variety of topics and themes classical and quantum theoretical and experimental Some focus on integrability or discuss the mathematical foundations of chaos Others explore the beauty of fractals or examine endless possibilities of applications to problems of physics chemistry biology and other sciences A new scientific discipline has thus emerged with its own distinct philosophical viewpoint and an impressive arsenal of new methods and techniques which may be called Chaotic Dynamics Perhaps its most outstanding achievement so far has been to shed new light on many long standing issues involving complicated irregular or chaotic nonlinear phenomena The concepts of randomness complexity and unpredictability have been critically re examined and the fundamental importance of scaling self similarity and sensitive dependence on parameters and initial conditions has been firmly established In this NATO ASI held at the seaside Greek city of Patras between July 11 20 1991 a serious effort was made to bring together scientists representing many of the different aspects of

Applications of Analytic and Geometric Methods to Nonlinear Differential Equations P.A. Clarkson, 1993-09-30 In the study of integrable systems two different approaches in particular have attracted considerable attention during the past twenty years 1 The inverse scattering transform IST using complex function theory which has been employed to solve many physically significant equations the soliton equations 2 Twistor theory using differential geometry which has been used to solve the self dual Yang Mills SDYM equations a four dimensional system having important applications in mathematical physics Both soliton and the SDYM equations have rich algebraic structures which have been extensively studied Recently it has been conjectured that in some sense all soliton equations arise as special cases of the SDYM equations subsequently many have been discovered as either exact or asymptotic reductions of the SDYM equations Consequently what seems to be emerging is that a natural physically significant system such as the SDYM equations provides the basis for a unifying framework underlying this class of integrable systems i e soliton systems This book contains several articles on the reduction of the SDYM equations to soliton equations and the relationship between the IST and twistor methods The majority of nonlinear evolution equations are nonintegrable and so asymptotic numerical perturbation and reduction techniques are often used to study such equations This book also contains articles on perturbed soliton equations Painlev analysis of partial differential equations studies of the Painlev equations and symmetry reductions of nonlinear partial differential equations ABSTRACT In the study of integrable systems two different approaches in particular have attracted considerable attention during the past twenty years the inverse scattering transform IST for soliton equations and twistor theory for the self dual Yang Mills SDYM equations This book contains several articles on the reduction of the SDYM equations to soliton equations and the relationship between the IST and twistor methods Additionally it contains articles on perturbed soliton equations Painley analysis of partial differential equations studies of the Painley equations and symmetry reductions of nonlinear partial differential equations **Solitons and Chaos** Ioannis Antoniou,Franklin J Lambert,1991-11-26 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 ofthe 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 Painleve analysis numerical algorithms pertubation methods **Energy Research Abstracts**, 1993 **Fusion Energy Update**, 1986

Advanced Numerical Methods for Differential Equations Harendra Singh, Jagdev Singh, Sunil Dutt Purohit, Devendra Kumar, 2021-06-25 Mathematical models are used to convert real life problems using mathematical concepts and language These models are governed by differential equations whose solutions make it easy to understand real life problems and can be applied to engineering and science disciplines This book presents numerical methods for solving various mathematical models This book offers real life applications includes research problems on numerical treatment and shows how to develop the numerical methods for solving problems The book also covers theory and applications in engineering and science Engineers mathematicians scientists and researchers working on real life mathematical problems will find this book useful

Scientific and Technical Aerospace Reports ,1995-08 Reflexing Interfaces: The Complex Coevolution of Information Technology Ecosystems Orsucci, Franco F., Sala, Nicoletta, 2008-03-31 This book discusses the application of complex theories in information and communication technology with a focus on the interaction between living systems and information technologies providing researchers scholars and IT professionals with a fundamental resource on such topics as virtual reality fuzzy logic systems and complexity science in artificial intelligence evolutionary computation neural networks and 3 D modeling Provided by publisher Handbook of Research on Artificial Immune Systems and Natural Computing: Applying Complex Adaptive Technologies Mo, Hongwei, 2009-04-30 This book offers new ideas and recent developments in Natural Computing especially on artificial immune systems Provided by publisher Research in Progress United States. Army Research Office, 1992 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall

<u>Electron-Electron Correlation Effects in Low-Dimensional Conductors and Superconductors</u> 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 polyacethylenes CH 1 and conducting donor acceptor molecular crystals TIF z TCNQ Examples of quasi two dimensional systems are high temperature su perconductors HTSC based on copper oxides LA2CU04 YBa2Cu306 y and organic superconductors based on BEDT TIP 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 sys tems 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 con stant 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

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 measu rement 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

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