

Proceedings of the International Centre for  
Condensed Matter Physics School

# NONLINEAR PHYSICAL PHENOMENA



Bombay, 3-21 July 1989

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World Scientific

# Nonlinear Physical Phenomena

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## **Nonlinear Physical Phenomena:**

### **Nonlinear Physical Phenomena - Proceedings Of The International Centre Of Condensed Matter Physics**

**School** Alvaro Ferraz, Fernando Oliveira, Roberto Osorio, 1990-11-30 Non linear effects are basically manifested in a variety of physical phenomena such as defect mediated transitions pattern formation growth of aggregates turbulence chemical reactions diffusion in porous media biological information processing etc Many non linear dynamical systems are extremely sensitive to small changes in the initial conditions Different routes to chaos have been established and a new geometry called fractal geometry has been developed The aim of this School is to review the main achievements of the modern theory of irregular structures and to discuss the exciting new trends in non linear phenomena **Nonlinear Phenomena in the**

**Ionosphere** A. Gurevich, 2012-12-06 Nonlinear effects in the ionosphere cross modulation of radio waves have been known since the 1930s Only recently however has the rapid increase in the power and directivity of the radio transmitters made it possible to alter the properties of the ionosphere strongly and to modify it artificially by applying radio waves This has revealed a variety of new physical phenomena Their study is not only of scientific interest but also undisputedly of practical interest and is presently progressing very rapidly This monograph is devoted to an exposition of the present status of theoretical research on this problem Particular attention is paid naturally to problems in the development of which the author himself took part It is my pleasant duty to thank V L Ginzburg L P Pitaevskii V V Vas kov E E Tsedilina A B Shvartsburg and Va S Dimant for useful discussions and for valuable remarks during various stages of the work on the problem considered in this book Contents 1 Introduction **Nonlinear Physical Phenomena** Alvaro Ferraz, Fernando Oliveira, 1991

**Continuous Mathematical Models Representing Nonlinear Physical Phenomena** Gaudencio Tito L. Paunon, 1988 *Nonlinear Physics: Theory And Experiment : Nature, Structure And Properties Of Nonlinear Phenomena - Proceedings Of The First Conference* Eleonora Alfinito, M Boiti, Luigi Martina, F Pempinelli, 1996-06-20 This volume constitutes the proceedings of the Workshop Nonlinear Physics Theory and Experiment held in Gallipoli Lecce Italy from June 29 to July 7 1995 The purpose of the Workshop was to bring together scientists whose common interest is the nature structure and properties of nonlinear phenomena in various areas of physics and applied mathematics The purpose of the Workshop was to bring together scientists whose common interest is the nature structure and properties of nonlinear phenomena in various areas of physics and applied mathematics In fact topics covered at the Workshop run from nonlinear optics to molecular dynamics plasma waves hydrodynamics quantum electronics and solid state and from inverse scattering transform methods to dynamical systems including integrability hamiltonian structures geometrical aspects turbulence and chaos *Nonlinear Physics of Plasmas* Mitsuo Kono, Milos Skoric, 2010-10-17 A nonlinearity is one of the most important notions in modern physics A plasma is rich in nonlinearities and provides a variety of behaviors inherent to instabilities coherent wave structures and turbulence The book covers the basic concepts and mathematical methods necessary to

comprehend nonlinear problems widely encountered in contemporary plasmas but also in other fields of physics and current research on self organized structures and magnetized plasma turbulence The analyses make use of strongly nonlinear models solved by analytical techniques backed by extensive simulations and available experiments The text is written for senior undergraduates graduate students lecturers and researchers in laboratory space and fusion plasmas *Nonlinear Physical*

*Fields and Anomalous Phenomena* Alexander S. Rabinowitch, 2014-05-14 **Nonlinear Differential Equations in Physics**

Santanu Saha Ray, 2019-12-28 This book discusses various novel analytical and numerical methods for solving partial and fractional differential equations Moreover it presents selected numerical methods for solving stochastic point kinetic equations in nuclear reactor dynamics by using Euler Maruyama and strong order Taylor numerical methods The book also shows how to arrive at new exact solutions to various fractional differential equations such as the time fractional Burgers Hopf equation the 3 1 dimensional time fractional Khokhlov Zabolotskaya Kuznetsov equation 3 1 dimensional time fractional KdV Khokhlov Zabolotskaya Kuznetsov equation fractional 2 1 dimensional Davey Stewartson equation and integrable Davey Stewartson type equation Many of the methods discussed are analytical numerical namely the modified decomposition method a new two step Adomian decomposition method new approach to the Adomian decomposition method modified homotopy analysis method with Fourier transform modified fractional reduced differential transform method MFRDTM coupled fractional reduced differential transform method CFRDTM optimal homotopy asymptotic method first integral method and a solution procedure based on Haar wavelets and the operational matrices with function approximation The book proposes for the first time a generalized order operational matrix of Haar wavelets as well as new techniques MFRDTM and CFRDTM for solving fractional differential equations Numerical methods used to solve stochastic point kinetic equations like the Wiener process Euler Maruyama and order 1 5 strong Taylor methods are also discussed **Mathematics for**

**Nonlinear Physics** J. R. Bogning, 2019-12-13 Mathematics for Nonlinear Physics Solitary Wave in the Center of the Resolution of Dispersive Nonlinear Partial Differential Equations By J R Bogning Mathematics for Nonlinear Physics Solitary Wave in the Center of the Resolution of Dispersive Nonlinear Partial Differential Equations is the result of ten years of high level research on the dynamics of solitary waves In the context of his different work in nonlinear physics J R Bogning encountered differential equations with nonlinear partial derivatives whose search for solutions was not always obvious But beyond the fact that these equations encountered were not always easy to integrate the observation he made was that very few works proposed forced solitary wave solutions So this book develops in detail new mathematical techniques to solve some types of nonlinear equations encountered in nonlinear physics This book is unique in terms of its content the theories developed inside are not in any other book This book is the pioneer in the theory developed within it and will be the reference book from which other researchers and scientists will rely to extend and develop the mathematical concepts found there Mastery of the properties and functions developed in the book will help to digitize solitary waves *Nonlinear Phenomena*

*in Physics and Biology* Richard H. Enns, 2012-12-06 The Advanced Study Institute ASI on Nonlinear Phenomena in Physics and Biology was held at the Banff Centre Banff Alberta Canada from 17-29 August 1980. The Institute was made possible through funding by the North Atlantic Treaty Organization who supplied the major portion of the financial aid, the National Research and Engineering Council of Canada and Simon Fraser University. The availability of the Banff Centre was made possible through the co-sponsorship with NATO of the ASI by the Canadian Association of Physicists. 12 invited lecturers and 82 other participants attended the Institute. Except for two lectures on nonlinear waves by Norman Zabusky which were omitted because it was felt that they already had been exhaustively treated in the available literature, this volume contains the entire text of the invited lectures. In addition, short reports on some of the contributed talks have also been included. The rationale for the ASI and this resulting volume was that many of the hardest problems and most interesting phenomena being studied by scientists today are nonlinear in nature. The nonlinear models involved often span several different disciplines, a simple example being the Volterra type model in population dynamics which has its analogue in nonlinear optics and plasma physics, the 3-wave problem in the discussion of the social behavior of animals and in biological competition and selection at the molecular level.

*Wave Physics* Stephen Nettel, 2013-04-17 This is a text for the third semester of undergraduate physics for students in accelerated programs who typically are preparing for advanced degrees in science or engineering. The third semester is often the only opportunity for physics departments to present to students who are not physics majors a coherent background in the physics of waves required later for confident handling of applied problems, especially applications based on quantum mechanics. Physics is a coherent subject. It is often found that the going gets easier as one goes deeper, learning the mathematical connections tying together the various phenomena. Even so, the steps that took us from classical wave physics to Heisenberg's *Physical Principles of Quantum Theory* were, as a matter of history, harder to take than later steps dealing with detailed applications. With these considerations in mind, the classical physics of oscillations and waves is developed here at a more advanced mathematical level than is customary in second-year courses. This is done to explain the classical phenomena but also to provide background for the introductory wave mechanics leading to a logical integration of the latter subject into the presentation. Concurrently, detailed applications of quantum mechanics are beyond the mission of the text. The concluding chapters on nonlinear waves, solitons, and chaos broaden the previously established concepts of wave behavior while introducing the reader to important topics in current wave physics.

**Nonlinear Physics with Maple for Scientists and Engineers** Richard Enns, George McGuire, 2013-11-27 *Philosophy of the Text* This text has been designed to be an introductory survey of the basic concepts and applied mathematical methods of nonlinear science. Students in engineering, physics, chemistry, mathematics, computing science, and biology should be able to successfully use this text. In an effort to provide the students with a cutting-edge approach to one of the most dynamic, often subtle, complex, and still rapidly evolving areas of modern research, nonlinear physics, we have made extensive use of the symbolic numeric

and plotting capabilities of Maple V Release 4 applied to examples from these disciplines No prior knowledge of Maple or computer programming is assumed the reader being gently introduced to Maple as an auxiliary tool as the concepts of nonlinear science are developed The diskette which accompanies the text gives a wide variety of illustrative nonlinear examples solved with Maple An accompanying laboratory manual of experimental activities keyed to the text allows the student the option of hands on experience in exploring nonlinear phenomena in the REAL world Although the experiments are easy to perform they give rise to experimental and theoretical complexities which are not to be underestimated The Level of the Text The essential prerequisites for the first eight chapters of this text would normally be one semester of ordinary differential equations and an intermediate course in classical mechanics

**Physics of Fractal Operators** Bruce West, Mauro Bologna, Paolo Grigolini, 2012-12-06 This text describes the statistical behavior of complex systems and shows how the fractional calculus can be used to model the behavior The discussion emphasizes physical phenomena whose evolution is best described using the fractional calculus such as systems with long range spatial interactions or long time memory The book gives general strategies for understanding wave propagation through random media the nonlinear response of complex materials and the fluctuations of heat transport in heterogeneous materials

**A Journey into the Nonlinear World** Jüri Engelbrecht, 2024-07-30 This is a personal story about being involved in the study of nonlinear phenomena for more than half a century The focus is on the development of ideas and the resulting knowledge This is the visible part of research but much is usually hidden The author describes how the ideas were generated and how an invisible college of friends and colleagues has emerged The presentation is spiced by thoughts about the beauty of science and philosophical considerations on the complex world where nonlinear interactions play an important role The book is in some sense a biography but not so much about the personal life of the author it is about science and its actors Based on the author's experience in many European research centres and science policy institutions it reflects on the development of knowledge in nonlinear dynamics as well as science policy actions over the second half of the 20th century and the first quarter of the 21st century Graduates and postgraduates interested in the progress of research will find the book particularly engaging

**Computation and Modeling for Fractional Order Systems** Snehashish Chakraverty, Rajarama Mohan Jena, 2024-02-20 Computation and Modeling for Fractional Order Systems provides readers with problem solving techniques for obtaining exact and or approximate solutions of governing equations arising in fractional dynamical systems presented using various analytical semi analytical and numerical methods In this regard this book brings together contemporary and computationally efficient methods for investigating real world fractional order systems in one volume Fractional calculus has gained increasing popularity and relevance over the last few decades due to its well established applications in various fields of science and engineering It deals with the differential and integral operators with non integral powers Fractional differential equations are the pillar of various systems occurring in a wide range of science and engineering disciplines

namely physics chemical engineering mathematical biology financial mathematics structural mechanics control theory circuit analysis and biomechanics among others The fractional derivative has also been used in various other physical problems such as frequency dependent damping behavior of structures motion of a plate in a Newtonian fluid PID controller for the control of dynamical systems and many others The mathematical models in electromagnetics rheology viscoelasticity electrochemistry control theory Brownian motion signal and image processing fluid dynamics financial mathematics and material science are well defined by fractional order differential equations Generally these physical models are demonstrated either by ordinary or partial differential equations However modeling these problems by fractional differential equations on the other hand can make the physics of the systems more feasible and practical in some cases In order to know the behavior of these systems we need to study the solutions of the governing fractional models The exact solution of fractional differential equations may not always be possible using known classical methods Generally the physical models occurring in nature comprise complex phenomena and it is sometimes challenging to obtain the solution both analytical and numerical of nonlinear differential equations of fractional order Various aspects of mathematical modeling that may include deterministic or uncertain viz fuzzy or interval or stochastic scenarios along with fractional order singular non singular kernels are important to understand the dynamical systems Computation and Modeling for Fractional Order Systems covers various types of fractional order models in deterministic and non deterministic scenarios Various analytical semi analytical numerical methods are applied for solving real life fractional order problems The comprehensive descriptions of different recently developed fractional singular non singular fractal fractional and discrete fractional operators along with computationally efficient methods are included for the reader to understand how these may be applied to real world systems and a wide variety of dynamical systems such as deterministic stochastic continuous and discrete are addressed by the authors of the book

**Scientific and Technical Aerospace Reports**, 1980 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

**Schrödinger Equations in Nonlinear Systems** Wu-Ming Liu, Emmanuel Kengne, 2019-03-20 This book explores the diverse types of Schrödinger equations that appear in nonlinear systems in general with a specific focus on nonlinear transmission networks and Bose Einstein Condensates In the context of nonlinear transmission networks it employs various methods to rigorously model the phenomena of modulated matter wave propagation in the network leading to nonlinear Schrödinger NLS equations Modeling these phenomena is largely based on the reductive perturbation method and the derived NLS equations are then used to methodically investigate the dynamics of matter wave solitons in the network In the context of Bose Einstein condensates BECs the book analyzes the dynamical properties of NLS equations with the external potential of different types which govern the dynamics of modulated matter waves in BECs with either two body interactions or both two and three body interatomic interactions It also discusses the

method of investigating both the well posedness and the ill posedness of the boundary problem for linear and nonlinear Schrödinger equations and presents new results Using simple examples it then illustrates the results on the boundary problems For both nonlinear transmission networks and Bose Einstein condensates the results obtained are supplemented by numerical calculations and presented as figures

**Artificial Neural Networks and Machine Learning - ICANN 2023** Lazaros Iliadis, Antonios Papaleonidas, Plamen Angelov, Chrisina Jayne, 2023-09-21 The 10 volume set LNCS 14254 14263 constitutes the proceedings of the 32nd International Conference on Artificial Neural Networks and Machine Learning ICANN 2023 which took place in Heraklion Crete Greece during September 26 29 2023 The 426 full papers 9 short papers and 9 abstract papers included in these proceedings were carefully reviewed and selected from 947 submissions ICANN is a dual track conference featuring tracks in brain inspired computing on the one hand and machine learning on the other with strong cross disciplinary interactions and applications

Visions of Nonlinear Science in the 21st Century Jose L. Huertas, Wai-Kai Chen, Rabinder N. Madan, 1999 Authoritative and visionary this festschrift features 12 highly readable expositions of virtually all currently active aspects of nonlinear science It has been painstakingly researched and written by leading scientists and eminent expositors including L Shilnikov R Seydel I Prigogine W Porod C Mira M Lakshmanan W Lauterborn A Holden H Haken C Grebogi E Doedel and L Chua each chapter addresses a current and intensively researched area of nonlinear science and chaos including nonlinear dynamics mathematics numerics and technology Handsomely produced with high resolution color graphics for enhanced readability this book has been carefully written at a high level of exposition and is somewhat self contained Each chapter includes a tutorial and background information as well as a survey of each area s main results and state of the art Of special interest to both beginners and seasoned researchers is the identification of future trends and challenging yet tractable problems that are likely to be solved before the end of the 21st century The visionary and provocative nature of this book makes it a valuable and lasting reference

Laser Systems and Applications Mr. Rohit Manglik, 2024-07-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels



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