



# Nonlinear Coherent Structures in Physics and Biology

Edited by

K. H. Spatschek and  
F. G. Mertens

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# Nonlinear Coherent Structures In Physics And Biology

**M. Barthes, Jerome Leon**



## **Nonlinear Coherent Structures In Physics And Biology:**

**Nonlinear Coherent Structures in Physics and Biology** K. H. Spatschek, F. G. Mertens, 2014-01-15     *Nonlinear Coherent Structures in Physics and Biology* M. Remoissenet, M. Peyrard, 2014-01-15     Nonlinear Coherent Structures in Physics and Biology M. Remoissenet, 1991 Nature provides many examples of coherent nonlinear structures and waves and these have been observed and studied in various fields ranging from fluids and plasmas through solid state physics to chemistry and biology These proceedings reflect the remarkable process in understanding and modeling nonlinear phenomena in various systems that has recently been made Experimental numerical and theoretical activities interact in various studies that are presented according to the following classification magnetic and optical systems biosystems and molecular systems lattice excitations and localized modes two dimensional structures theoretical physics and mathematical methods The book addresses researchers and graduate students from biology engineering mathematics and physics

Conference on Nonlinear Coherent Structures in Physics and Biology Heriot-watt univ edinburgh (Great Britain) Department of mathematics, 1995 The Final Proceedings for Nonlinear Coherent Structures in Physics and Biology 10 July 1995 14 July 1995 Some of the major topics include molecular structure solitons nonlinear equations and solitary waves

Nonlinear Coherent Structures Mariette Barthes, Jerome Leon, 2014-01-15     Nonlinear Coherent Structures M. Barthes, Jerome Leon, 1990-02-21 This book is devoted to the applications of the mathematical theory of solitons to physics statistical mechanics and molecular biology It contains contributions on the signature and spectrum of solitons nonlinear excitations in prebiological systems experimental and theoretical studies on chains of hydrogen bonded molecules nonlinear phenomena in solid state physics including charge density waves nonlinear wave propagation defects gap solitons and Josephson junctions The content is interdisciplinary in nature and displays the new trends in nonlinear physics

**Nonlinear Science at the Dawn of the 21st Century** P.L. Christiansen, M.P. Sorensen, A.C. Scott, 2008-01-11 Nonlinear science is by now a well established field of research at the interface of many traditional disciplines and draws on the theoretical concepts developed in physics and mathematics The present volume gathers the contributions of leading scientists to give the state of the art in many areas strongly influenced by nonlinear research such as superconduction optics lattice dynamics biology and biomolecular dynamics While this volume is primarily intended for researchers working in the field care has been taken that it will also be of benefit to graduate students or nonexpert scientist wishing to familiarize themselves with the current status of research     *Instabilities and Nonequilibrium Structures IV* E. Tirapegui, W. Zeller, 2012-12-06 We have classified the articles presented here in two Sections according to their general content In Part I we have included papers which deal with statistical mechanics mathematical aspects of dynamical systems and stochastic effects in nonequilibrium systems Part II is devoted mainly to instabilities and self organization in extended nonequilibrium systems The study of partial differential equations by numerical and analytic methods plays a great role here and many works

are related to this subject Most recent developments in this fascinating and rapidly growing area are discussed PART I STATISTICAL MECHANICS AND RELATED TOPICS NONEQUILIBRIUM POTENTIALS FOR PERIOD DOUBLING R Graham and A Hamm Fachbereich Physik Universitiit Gesamthochschule Essen D4300 Essen 1 Germany ABSTRACT In this lecture we consider the influence of weak stochastic perturbations on period doubling using nonequilibrium potentials a concept which is explained in section 1 and formulated for the case of maps in section 2 In section 3 nonequilibrium potentials are considered for the family of quadratic maps a at the Feigenbaum attractor with Gaussian noise b for more general non Gaussian noise and c for the case of a strange repeller Our discussion will be informal A more detailed account of this and related material can be found in our papers 1 3 and in the reviews 4 5 where further references to related work are also given 1 *The Non Linearity and the Disorder* Luis Vázquez, Salvador Jiménez, 1996

**The Role of Topology in Classical and Quantum Physics** Giuseppe Morandi, 2008-09-11 In solid state physics especially topological techniques have turned out to be extremely useful for modelling and explaining physical properties of matter This book illustrates various applications of algebraic topology in classical field theory non linear sigma models and in quantizations in multiply connected spaces anyone It treats Chern Simon Lagrangians Berry s phase the polarization of light and the fractional quantum Hall effect **Interplay of Quantum Mechanics and Nonlinearity** V. M. (Nitant) Kenkre, 2022-03-26 This book presents an in depth study of the discrete nonlinear Schrödinger equation DNLS with particular emphasis on spatially small systems that permit analytic solutions In many quantum systems of contemporary interest the DNLS arises as a result of approximate descriptions despite the fundamental linearity of quantum mechanics Such scenarios exemplified by polaron physics and Bose Einstein condensation provide application areas for the theoretical tools developed in this text The book begins with an introduction of the DNLS illustrated with the dimer development of fundamental analytic tools such as elliptic functions and the resulting insights into experiment that they allow Subsequently the interplay of the initial quantum phase with nonlinearity is studied leading to novel phenomena with observable implications in fields such as fluorescence depolarization of stick dimers followed by analysis of more complex and or larger systems Specific examples analyzed in the book include the nondegenerate nonlinear dimer nonlinear trapping rotational polarons and the nonadiabatic nonlinear dimer Phenomena treated include strong carrier phonon interactions and Bose Einstein condensation This book is aimed at researchers and advanced graduate students with chapter summaries and problems to test the reader s understanding along with an extensive bibliography The book will be essential reading for researchers in condensed matter and low temperature atomic physics as well as any scientist who wants fascinating insights into the role of nonlinearity in quantum physics

**Numerical Methods for Fluid Dynamics** V K. W. Morton, M. J. Baines, 1995 This book provides a summary of recent research on the computational aspects of fluid dynamics It includes contributions from many distinguished mathematicians and engineers The main themes of the book are algorithms and algorithmic needs arising from applications Navier Stokes on

flexible grids and environmental computational fluid dynamics      **Fluid Physics - Lecture Notes Of Summer Schools**

Manuel G Velarde, C I Christov, 1995-03-07 This book pays tribute to 25 Singaporean South Asians who pioneered and excelled in their respective fields from 1950 to 2015 It is meant to be a quick take on 25 Singaporean South Asian personalities across a broad spectrum of professions and activities who believed in the value and virtue of service to the community and gave the best of themselves They had a sense of mission in their professions dedicated to what they were doing and fostered a sense of community and nation Many of them laid foundations that triggered the transformation of the island including sportspeople whose records have stood the test of time They were a people of their time whose work many may not know but which we hope will inspire others This book is timely for those who want to get a snapshot appreciation of the contributions of Singaporean South Asians      *Localization And Energy Transfer In Nonlinear Systems, Proceedings Of The Third Conference* Luis Vazquez, Maria Paz Zorzano, Robert S Mackay, 2003-05-22 This conference was the third meeting organized in the framework of the European LOCNET project The main topics discussed by this international research collaboration were localization by nonlinearity and spatial discreteness and energy transfer in crystals biomolecules and Josephson arrays      Journal of Nonlinear Mathematical Physics Vol. 14 ,      **Physics and Applications of Optical**

**Solitons in Fibres '95** Akira Hasegawa, 2012-12-06 This book summarizes the proceedings of the invited talks presented at the International Symposium of Physics and Application of Optical Solitons in Fibers held in Kyoto during November 14 to 17 1995 As a result of worldwide demand for ultra high bitrate transmissions and increased scientific interests from the soliton community research on optical solitons in fibers has made a remarkable progress in recent years In view of these trends and with the support of the Japanese Ministry of Posts and Telecommunications the Research Group for Optical Soliton Communications ROSC chaired by Akira Hasegawa was established in Japan in April 1995 to promote collaboration and information exchange among communication service companies industries and academic circles in the theory and application of optical solitons This symposium was organized as a part of the ROSC activities The symposium attracted enthusiastic response by worldwide researchers involved in this subject which has lead to the most intensive meeting that the editor ever attended The reader will find the contents to be well balanced among theory experiment and technology Although the evaluation of the contents shall naturally depend on the particular area of interest of the reader the symposium has confirmed that the soliton based light wave transmission has achieved the best result in one channel both in distance of transmission and in bitrate although in wavelength division multiplexed WDM systems NRZ transmission has yet better result

**Waves Called Solitons** Michel Remoissenet, 2013-03-09 In the third edition the presentation of new topics has been deliberately kept simple for pedagogical purposes Chapter 1 was completed by references to the tidal bore and magnetic envelope solitons Two new sections devoted to magnetic envelope solitons and signal processing with solitons have been added to Chap 4 Short comments on models describing blood pressure pulse propagation in terms of solitons were added to

chapter 5 A description of a new mechanical transmission line with two equilibrium states has been included in Chap 6 Such an analog device is useful to illustrate the properties of kink solitons and to observe solitary waves with a compact shape called compactons New references concerning recent advances in experimental techniques and lattice effects were added to Chap 7 In Chap 8 a short introduction to spatial optical solitons in continuous and discrete systems was included Chapter 9 was completed by new sections devoted to nonlinear lattice models and energy localization The concepts of self trapped states and intrinsic localized modes or discrete breathers are discussed Different analog chains which make it possible to observe the characteristic features of discrete breathers are described Contrary to previous chapters where we have considered reversible or conservative systems where solitons can exist owing to the dynamical balance between linear dispersion and nonlinearity Chapter 11 which is a new chapter is devoted to irreversible systems where nonlinearity can balance the effects of dissipation leading to diffusing solitary waves or diffusive solitons

The Discrete Nonlinear Schrödinger Equation Panayotis G. Kevrekidis, 2009-07-07 This book constitutes the first effort to summarize a large volume of results obtained over the past 20 years in the context of the Discrete Nonlinear Schrödinger equation and the physical settings that it describes

*Frontier Topics in Nuclear Physics* Werner Scheid, Aurel Sandulescu, 2012-12-06 This volume contains the lectures and contributions presented at the NATO Advanced Study Institute ASI on Frontier Topics in Nuclear Physics held at Predeal in Romania from 24 August to 4 September 1993 The ASI stands in a row of 23 Predeal Summer Schools organized by the Institute of Atomic Physics Bucharest in Predeal or Poiana Brasov during the last 25 years The main topics of the ASI were cluster radioactivity fission and fusion the production of very heavy elements nuclear structure described with microscopic and collective models weak interaction and double beta decay nuclear astrophysics and heavy ion reactions from low to ultrarelativistic energies The content of this book is ordered according to these topics The ASI started with a lecture by Professor Greiner on the Present and future of nuclear physics showing the most important new directions of research and the interdisciplinary relations of nuclear physics with other fields of physics This lecture is printed in the first chapter of the book

**Turbulence** P. Tabeling, O. Cardoso, 2012-12-06 The present volume comprises the contributions of some of the participants of the NATO Advanced Studies Institute Turbulence Weak and Strong held in Cargèse in August 1994 More than 70 scientists from seniors to young students have joined together to discuss and review new and not so new ideas and developments in the study of turbulence One of the objectives of the School was to incorporate in the same meeting two aspects of turbulence which are obviously linked and which are often treated separately fully developed turbulence in two and three dimensions and weak turbulence essentially one and two dimensional systems The idea of preparing a dictionary rather than ordinary proceedings started from the feeling that the terminology of turbulence includes many long technical poorly evocative words which are usually not understood by people exterior to the field and which might be worth explaining Students who start working in the field of turbulence face a sort of curious situation on one side they are aware that

turbulence is related to the disordered churning flows of torrents the powerful movements of water in the oceans the violent jet streams in the troposphere the solar eruptions and they are certainly excited to pierce the mystery of this fascinating omnipresent phenomenon

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