



# Nonlinear Wave Processes in Excitable Media

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NATO ASI Series

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Series B: Physics Vol. 244

# Nonlinear Wave Processes In Excitable Media

**Roberto Artuso, P. Cvitanovic, Giulio  
Casati**



## **Nonlinear Wave Processes In Excitable Media:**

**Nonlinear Wave Processes in Excitable Media** Arunn V. Holden, Mario Markus, Hans G. Othmer, 2013-12-21

Proceedings of a NATO ARW held in Leeds UK September 11 15 1989      *Nonlinear Wave Processes in Excitable Media*

Andrew Palmer (mathematician.), 1993      *Simulation of Wave Processes in Excitable Media* Vladimir Sergeevich Zykov, 1987

*Simulation of Wave Processes in Excitable Media* V. S. Zykov, A. T. Winfree, 1992-03-01      *Foundations of Synergetics I*

Alexander S. Mikhailov, 2012-12-06 This book gives an introduction to the mathematical theory of cooperative behavior in active systems of various origins both natural and artificial It is based on a lecture course in synergetics which I held for almost ten years at the University of Moscow The first volume deals mainly with the problems of pattern formation and the properties of self organized regular patterns in distributed active systems It also contains a discussion of distributed analog information processing which is based on the cooperative dynamics of active systems The second volume is devoted to the stochastic aspects of self organization and the properties of self established chaos I have tried to avoid delving into particular applications The primary intention is to present general mathematical models that describe the principal kinds of cooperative behavior in distributed active systems Simple examples ranging from chemical physics to economics serve only as illustrations of the typical context in which a particular model can apply The manner of exposition is more in the tradition of theoretical physics than of mathematics Elaborate formal proofs and rigorous estimates are often replaced in the text by arguments based on an intuitive understanding of the relevant models Because of the interdisciplinary nature of this book its readers might well come from very diverse fields of endeavor It was therefore desirable to minimize the required preliminary knowledge Generally a standard university course in differential calculus and linear algebra is sufficient      [Encyclopedia of Nonlinear Science](#) Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others

*Biocomputing* Phillip A. Laplante, 2003 Since the mid 1990s advances in DNA sequencing have enhanced our understanding of humanity and all living things Driven by these advances the closely related sciences of Bioinformatics and Biocomputing have become the ultimate interdisciplinary study areas forever blurring the lines between engineering biology and computer science and bringing together researchers who ordinarily wouldn't interact While Bioinformatics largely focuses on the analysis prediction imaging and sequencing of genes the broader interdisciplinary field of Biocomputing includes the study of biological models of computing using traditional materials genomic modelling and visualisation biomaterials for non traditional computer designs and computer architectures for those materials In addition Biocomputing uses the principles and tools of computer science to model or algorithmically specify complex biological information systems

and computational systems with life like capabilities Biocomputing has manifested numerous government multi agency programs including the Human Genome Project the High Performance Computing Communications HPCC initiative the Human Brain Project and other related programs such as the National Information Infrastructure and Digital Libraries initiatives which have strong bio related components This book brings together the latest research in this fast growing field

**Imagery Synergetics** Peter J. Plath, Ernst-Christoph Haß, Hartmut Linde, 2022-05-26 This text will be replaced by the correThis book is aimed to a broad audience of researchers and students who are interested in questions of structure formation in complex systems in nature and society When we think of synergetics impressive images of complex structures immediately come to mind Such images serve us as starting point and guide for understanding structure formation in chemical biological physical geological and social systems Many fascinating pictures of new experimental results illustrate the imagery of synergetics and at the same time enable precise statements about the underlying laws based on precise and discussed measurements In this way for example the famous Runge pictures are accessible to a physico chemical description and it turns out that the well known disintegration of the beer foam satisfies a consecutive kinetics with feedback The modeling by means of cellular automata and iterated function systems enables us to study the cooperative character of pattern formation on sea shells on the one hand but also to show that creativity is a cooperative effect ct back cover text information text as soon as we get it *Chaos in Chemistry and Biochemistry* Richard J. Field, L. Székely, 1993 True deterministic chaos is characterized by unpredictable apparently random motion in a dynamical system completely described by a deterministic dynamic law usually a nonlinear differential equation with no stochastic component The inability to predict future behavior of a chaotic system occurs because trajectories evolving from arbitrarily close initial conditions diverge Chaos is universal as it may arise in any system governed by one of a class of quite common suitable nonlinear dynamic laws This book discusses both the experimental observation and theoretical interpretation of chaos in chemical and biochemical systems Examples are drawn from the Belousov Zhabotinsky reaction surface reactions electrochemical reactions enzyme reactions and periodically perturbed oscillating systems *The Geometry of Biological Time* Arthur T. Winfree, 2013-03-09 Geometry of Biological Time deals with dynamics of processes that repeat themselves regularly Such rhythmic return through a cycle of change is an ubiquitous principle of organization in living systems In this revised and updated edition the author plans to extend the thread from 1980 to the present concentrating on areas which he personally feels have been interesting and where he feels there will be much activity in the future This involves going through spatial biochemical electrophysiological and organismic dynamical systems and patterns that were discovered by pursuing the theme of phase singularities that the original book introduced In particular the work on excitability in cell membranes has been thoroughly updated as have the references throughout the book **Viscoelastic Solids (1998)** Roderic S. Lakes, 2017-11-22 Viscoelastic Solids covers the mathematical theory of viscoelasticity and physical insights causal mechanisms and practical

applications The book presents a development of the theory addressing both transient and dynamic aspects as well as emphasizing linear viscoelasticity synthesizes the structure of the theory with the aim of developing physical insight illustrates the methods for the solution of stress analysis problems in viscoelastic objects explores experimental methods for the characterization of viscoelastic materials describes the phenomenology of viscoelasticity in a variety of materials including polymers metals high damping alloys rock piezoelectric materials cellular solids dense composite materials and biological materials analyzes high damping and extremely low damping provides the theory of viscoelastic composite materials including examples of various types of structure and the relationships between structure and mechanical properties contains examples on the use of viscoelastic materials in preventing and alleviating human suffering Viscoelastic Solids also demonstrates the use of viscoelasticity for diverse applications such as earplugs gaskets computer disks satellite stability medical diagnosis injury prevention vibration abatement tire performance sports spacecraft explosions and music

**Singularities in Fluids, Plasmas and Optics** Russel Caflisch, George C. Papanicolaou, 2012-12-06 Singularities in Fluids Plasmas and Optics which contains the proceedings of a NATO Workshop held in Heraklion Greece in July 1992 provides a survey of the state of the art in the analysis and computation of singularities in physical problems drawn from fluid mechanics plasma physics and nonlinear optics The singularities include curvature singularities on fluid interfaces the onset of turbulence in 3 D inviscid flows focusing singularities for laser beams and magnetic reconnection The highlights of the book include the nonlinear Schrödinger equation for describing laser beam focusing the method of complex variables for the analysis and computation of singularities on fluid interfaces and studies of singularities for the 3 D Euler equations The book is suitable for graduate students and researchers in these areas

**Physics and Chemistry of Finite Systems: From Clusters to Crystals** Peru Jena, S.N. Khanna, B.K.N. Rao, 2013-11-11 Recent innovations in experimental techniques such as molecular and cluster beam epitaxy supersonic jet expansion matrix isolation and chemical synthesis are increasingly enabling researchers to produce materials by design and with atomic dimension These materials constrained by size shape and symmetry range from clusters containing as few as two atoms to nanoscale materials consisting of thousands of atoms They possess unique structural electronic magnetic and optical properties that depend strongly on their size and geometry The availability of these materials raises many fundamental questions as well as technological possibilities From the academic viewpoint the most pertinent question concerns the evolution of the atomic and electronic structure of the system as it grows from micro clusters to crystals At what stage for example does the cluster look as if it is a fragment of the corresponding crystal How do electrons forming bonds in micro clusters transform to bands in solids How do the size dependent properties change from discrete quantum conditions as in clusters to boundary constrained bulk conditions as in nanoscale materials to bulk conditions insensitive to boundaries How do the criteria of classification have to be changed as one goes from one size domain to another Potential for high technological applications also seem to be endless Clusters of

otherwise non magnetic materials exhibit magnetic behavior when constrained by size shape and dimension Nanoscale metal particles exhibit non linear optical properties and increased mechanical strength Similarly materials made from nanoscale ceramic particles possess plastic behavior

*Chaos, Order, and Patterns* Roberto Artuso, P. Cvitanovic, Giulio Casati, 2012-12-06 Proceedings of a NATO ASI held in Lake Como Italy June 25 July 6 1990

Interactive Dynamics of Convection and Solidification S.H. Davis, H.E. Huppert, U. Müller, M.G. Worster, 2012-12-06 The phase transformation from liquid to solid is a phenomenon central to a wide range of manufacturing and natural processes The presence of phase transformation can drive convection in the melt through the liberation of latent heat the rejection of solute and the change of density upon freezing The fluid mechanics itself can play a central role the phase transformation can be strongly altered by convective transport in the liquid through the modification of the thermal and solutal environment of the solid liquid interface these local fields control the freezing characteristics at the interface The convection can be generated naturally by buoyancy forces arising from gradients of temperature and concentration in the liquid by density changes upon freezing and by thermocapillary and solutocapillary forces on liquid solid interfaces The interactive coupling between solidification and convection forms the subject of this volume Such coupled processes are significant on a large range of scales Among the applications of interest are the manufacture of single crystals the processing of surfaces using laser or molecular beams and the processes of soldering and welding One wants to understand and predict macrosegregation in castings transport and fractionation in geological and geophysical systems and heat accumulation in energy redistribution and storage systems This volume contains papers presented at the NATO Advanced Research Workshop on Interactive Dynamics of Convection and Solidification held in Chamonix France March 8 13 1992

**Asymptotics beyond All Orders** Harvey Segur, Saleh Tanveer, Herbert J. Levine, 2012-12-06 An asymptotic expansion is a series that provides a sequence of increasingly accurate approximations to a function in a particular limit The formal definition given by Poincare 1886 Acta Math 8 295 is as follows Given a function

**The Global Geometry of Turbulence** Javier Jiménez, 2012-12-06 The aim of this Advanced Research Workshop was to bring together Physicists Applied Mathematicians and Fluid Dynamicists including very specially experimentalists to review the available knowledge on the global structural aspects of turbulent flows with an especial emphasis on open systems and to try to reach a consensus on their possible relationship to recent advances in the understanding of the behaviour of low dimensional dynamical systems and amplitude equations A lot has been learned during recent years on the non equilibrium behaviour of low dimensional dynamical systems including some fluid flows Rayleigh Benard Taylor Couette etc These are mostly closed flows and many of the global structural features of the low dimensional systems have been observed in them including chaotic behaviour period doubling intermittency etc It has also been shown that some of these flows are intrinsically low dimensional which accounts for much of the observed similarities Open flows seem to be different and experimental observations point to an intrinsic high dimensionality However some of the tran

sitional features of the low dimensional systems have been observed in them specially in the intermittent behaviour of subcritical flows pipes channels boundary layers with suction etc and in the large scale geometry of coherent structures of free shear flows mixing layers jets and wakes      *Self-Organization, Emerging Properties, and Learning* Agnessa

Babloyantz, 2012-12-06 This volume contains the proceedings of the workshop held in March 1990 at Austin Texas on Self Organization Emerging Properties and Learning The workshop was co sponsored by NATO Scientific Affairs Division Solvay Institutes of Physics and Chemistry the University of Texas at Austin and IC2 Institute at Austin It gathered representatives from a large spectrum of scientific endeavour The subject matter of self organization extends over several fields such as hydrodynamics chemistry biology neural networks and social sciences Several key concepts are common to all these different disciplines In general the self organization processes in these fields are described in the framework of the nonlinear dynamics which also governs the mechanisms underlying the learning processes Because of this common language it is expected that any progress in one area could benefit other fields thus a beneficial cross fertilization may result In last two decades many workshops and conferences had been organized in various specific fields dealing with self organization and emerging properties of systems The aim of the workshop in Austin was to bring together researchers from seemingly unrelated areas and interested in self organization emerg ng properties and learning capabilities of interconnected multi unit systems The hope was to initiate interesting exchange and lively discussions The expectations of the organizers are materialized in this unusual collection of papers which brings together in a single volume representative research from many related fields Thus this volume gives to the reader a wider perspective over the generality and ramifications of the key concepts of self organization      *Logic and Algebra of Specification* Friedrich L. Bauer, Wilfried Brauer, Helmut

Schwichtenberg, 2012-12-06 For some years specification of software and hardware systems has been influenced not only by algebraic methods but also by new developments in logic These new developments in logic are partly based on the use of algorithmic techniques in deduction and proving methods but are also due to new theoretical advances to a great extent stimulated by computer science which have led to new types of logic and new logical calculi The new techniques methods and tools from logic combined with algebra based ones offer very powerful and useful tools for the computer scientist which may soon become practical for commercial use where in particular more powerful specification tools are needed for concurrent and distributed systems This volume contains papers based on lectures by leading researchers which were originally given at an international summer school held in Marktoberdorf in 1991 The papers aim to give a foundation for combining logic and algebra for the purposes of specification under the aspects of automated deduction proving techniques concurrency and logic abstract data types and operational semantics and constructive methods      *Spiral Symmetry* Istvan Hargittai, 1992-03-24 From the tiny twisted biological molecules to the gargantuan curling arms of many galaxies the physical world contains a startling repetition of spiral patterns Today researchers have a keen interest in identifying measuring and

defining these patterns in scientific terms Spirals play an important role in the growth processes of many biological forms and organisms Also through time humans have imitated spiral motifs in their art forms and invented new and unusual spirals which have no counterparts in the natural world Therefore one goal of this multiauthored book is to stress the conspicuous role that spirals play in science and to show the reader how to create such spirals using a computer Another goal is to show how simple mathematical formulas can reveal magnificent shapes and images This interdisciplinary book revolves around a common theme spiral symmetry and is intended for scientists humanists and interested laypeople



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