

Nonlinear Chemical Waves (Nonlinear science: theory & applications)

Ortoleva, P. J.

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Nonlinear Chemical Waves

J. Billingham, A. C. King



Nonlinear Chemical Waves:

Nonlinear Chemical Waves Peter J. Ortoleva, An Introduction to Nonlinear Chemical Dynamics Irving R. Epstein, John A. Pojman, 1998-10-22 Just a few decades ago chemical oscillations were thought to be exotic reactions of only theoretical interest. Now known to govern an array of physical and biological processes including the regulation of the heart, these oscillations are being studied by a diverse group across the sciences. This book is the first introduction to nonlinear chemical dynamics written specifically for chemists. It covers oscillating reactions, chaos, and chemical pattern formation and includes numerous practical suggestions on reactor design, data analysis, and computer simulations. Assuming only an undergraduate knowledge of chemistry, the book is an ideal starting point for research in the field. The book begins with a brief history of nonlinear chemical dynamics and a review of the basic mathematics and chemistry. The authors then provide an extensive overview of nonlinear dynamics, starting with the flow reactor and moving on to a detailed discussion of chemical oscillators. Throughout, the authors emphasize the chemical mechanistic basis for self-organization. The overview is followed by a series of chapters on more advanced topics, including complex oscillations, biological systems, polymers, interactions between fields and waves, and Turing patterns. Underscoring the hands-on nature of the material, the book concludes with a series of classroom-tested demonstrations and experiments appropriate for an undergraduate laboratory.

Nonlinear Chemical Waves P. J. Ortoleva, 1992-06-23 Concerned with chemical wave mechanics arising from reaction in transport systems, it demonstrates that as with free particles in quantum mechanics, certain simple elements can serve as organizing tools for understanding the complex phenomena treated. The rich diversity of waves and patterns, running the gamut from standing oscillating flames and nerve impulses to reactive geological media, are derived from the analysis of their underlying mathematical structures.

An Introduction to Nonlinear Chemical Dynamics Irving R. Epstein, John A. Pojman, 1998-10-22 Assuming no more than an undergraduate knowledge of chemistry, the authors take the reader through the necessary mathematical and theoretical background of oscillating reactions, chaos, and chemical waves to advanced topics of current research interest in chemical systems.

Chemical Waves and Patterns Raymond Kapral, K. Showalter, 2012-12-06 The concept of macroscopic waves and patterns developing from chemical reaction coupling with diffusion was presented apparently for the first time at the Main Meeting of the Deutsche Bunsengesellschaft für Angewandte Physikalische Chemie held in Dresden, Germany, from May 21 to 24, 1906. Robert Luther, Director of the Physical Chemistry Laboratory in Leipzig, read his paper on the discovery and analysis of propagating reaction-diffusion fronts in autocatalytic chemical reactions [1, 2]. He presented an equation for the velocity of these new waves $V \propto \sqrt{Dk}$ and asserted that they might have features in common with propagating action potentials in nerve cell axons. During the discussion period, a skeptic in the audience voiced his objections to this notion. It was none other than the great physical chemist Walther Nernst, who believed that nerve impulse propagation was far too rapid to be akin to the propagating fronts. He was also not willing to accept Luther's wave

velocity equation without a derivation Luther stood his ground saying his equation was a simple consequence of the corresponding differential equation He described several different autocatalytic reactions that exhibit propagating fronts recommending gelling the solution to prevent convection and even presented a demonstration the autocatalytic permanganate oxidation of oxalate was carried out in a test tube with the image of the front projected onto a screen for the audience

Oscillations, Waves and Patterns in the Physical and Life Sciences Rabih Sultan, Nobuhiko J. Suematsu, Federico Rossi, Istvan Lagzi, 2022-11-21

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

Nonlinear Dynamics and Chaos J Hogan, A.R Krauskopf, Mario di Bernardo, R. Eddie Wilson, Hinke. M Osinga, Martin. E Homer, Alan. R Champneys, 2002-08-01 Nonlinear dynamics has been successful in explaining complicated phenomena in well defined low dimensional systems Now it is time to focus on real life problems that are high dimensional or ill defined for example due to delay spatial extent stochasticity or the limited nature of available data How can one understand the dynamics of such sys

Chemical Oscillations, Waves, and Turbulence Y. Kuramoto, 2012-12-06 This book is intended to provide a few asymptotic methods which can be applied to the dynamics of self oscillating fields of the reaction diffusion type and of some related systems Such systems forming cooperative fields of a large num of interacting similar subunits are considered as typical synergetic systems ber Because each local subunit itself represents an active dynamical system function ing only in far from equilibrium situations the entire system is capable of showing a variety of curious pattern formations and turbulencelike behaviors quite unfamiliar in thermodynamic cooperative fields I personally believe that the nonlinear dynamics deterministic or statistical of fields composed of similar active Le non equilibrium elements will form an extremely attractive branch of physics in the near future For the study of non equilibrium cooperative systems some theoretical guid ing principle would be highly desirable In this connection this book pushes forward a particular physical viewpoint based on the slaving principle The discovery of this principle in non equilibrium phase transitions especially in lasers was due to Hermann Haken The great utility of this concept will again be demonstrated in this book for the fields of coupled nonlinear oscillators

Far-from-equilibrium Dynamics of Chemical Systems, 1994

Encyclopedia of Chemical Physics and Physical Chemistry John H. Moore, Nicholas D. Spencer, 2023-07-03 The Encyclopedia of Physical Chemistry and Chemical Physics introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors The encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation Particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia Care has been taken to

ensure that the reading level is suitable for the trained chemist or physicist The encyclopedia is divided in three major sections FUNDAMENTALS the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text METHODS the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical kinetics and the computational techniques used to predict the static and dynamic properties of materials APPLICATIONS specific topics of current interest and intensive research For the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited For a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

Wave Motion J. Billingham, A. C. King, 2001-01-22 Waves are a ubiquitous and important feature of the physical world and throughout history it has been a major challenge to understand them They can propagate on the surfaces of solids and of fluids chemical waves control the beating of your heart traffic jams move in waves down lanes crowded with vehicles This introduction to the mathematics of wave phenomena is aimed at advanced undergraduate courses on waves for mathematicians physicists or engineers Some more advanced material on both linear and nonlinear waves is also included thus making the book suitable for beginning graduate courses The authors assume some familiarity with partial differential equations integral transforms and asymptotic expansions as well as an acquaintance with fluid mechanics elasticity and electromagnetism The context and physics that underlie the mathematics is clearly explained at the beginning of each chapter Worked examples and exercises are supplied throughout with solutions available to teachers

Growth and Form of Self-organized Branched Crystal Pattern in Nonlinear Chemical System Rohit Srivastava, Narendra Yadav, Jayeeta Chattopadhyay, 2016-04-12 The book introduces the oscillatory reaction and pattern formation in the Belousov Zhabotinsky BZ reaction that became model for investigating a wide range of intriguing pattern formations in chemical systems So many modifications in classic version of BZ reaction have been carried out in various experimental conditions that demonstrate rich varieties of temporal oscillations and spatio temporal patterns in non equilibrium conditions Mixed mode versions of BZ reactions which comprise a pair of organic substrates or dual metal catalysts have displayed very complex oscillating behaviours and novel space time patterns during reaction processes These characteristic spatio temporal properties of BZ reactions have attracted increasing attention of the scientific community in recent years because of its comparable periodic structures in electrochemical systems polymerization processes and non

equilibrium crystallization phenomena Instead non equilibrium crystallization phenomena which lead to development of novel crystal morphologies in constraint of thermodynamic equilibrium conditions have been investigated and are said to be stationary periodic structures Efforts have continued to analyze insight mechanisms and roles of reaction diffusion mechanism and self organization in the growth of such periodic crystal patterns In this book non equilibrium crystallization phenomena leading to growth of some novel crystal patterns in dual organic substrate modes of oscillatory BZ reactions have been discussed Efforts have been made to find out experimental parameters where transitions of the spherulitic crystal patterns take place The book provides the scientific community and entrepreneurs with a thorough understanding and knowledge of the growth and form of branched crystal pattern in reaction diffusion system and their morphological transition

Molecular Electronics and Molecular Electronic Devices Kristof Sienicki,1994-03-22 Molecular Electronics and Molecular Electronic Devices is a new book series that reflects the state of the art in the science and technology of molecular electronic devices It provides a comprehensive review of current problems and the latest information regarding all aspects of molecular electronics and molecular electronic devices Experimental and theoretical aspects of molecular electronics and molecular electronic devices are reviewed by distinguished researchers working in chemistry physics computer science and various areas of biology

Complexity and Synergetics Stefan C. Müller,Peter J. Plath,Günter Radons,Armin Fuchs,2017-11-16 All of us are confronted with complex phenomena occurring in daily life and in the living and inanimate nature surrounding us Our scientific curiosity strives to unravel the mechanisms at work to create such complexity Among various approaches to solve this problem the field of synergetics developed by Hermann Haken has proven very successful as a general and interdisciplinary concept for describing and explaining complex phenomena that appear in systems under non equilibrium conditions These comprise dynamical states in evolving systems spatial structure forming processes synchronization of states and regulatory mechanisms and many other examples The encompassing concepts have been applied to many disciplines like physics chemistry biology and beyond those also from synergetics to information theory brain science economics and others Starting from basic methods of complexity research and synergetics this volume contains thirty contributions on complex systems that exhibit spontaneous pattern formation far from thermal equilibrium Written by international experts and young researchers assembled under one roof this volume reflects state of the art research from a variety of scientific fields and disciplines where complexity theory and synergetics are important or even indispensable tools today and in the future

Stanislaw Ulam 1909-1984 ,1987 **Los Alamos Science** ,1987 **Propagation in Systems Far from Equilibrium** Jose E. Wesfreid,Helmut R. Brand,Paul Manneville,Gilbert Albinet,Nino Boccara,2012-12-06 Macroscopic physics provides us with a great variety of pattern forming systems displaying propagation phenomena from reactive fronts in combustion to wavy structures in convection and to shear flow instabilities in hydrodynamics These proceedings record progress in this rapidly expanding field The contributions have the following major themes The problems of velocity selection

and front morphology of propagating interfaces in multiphase media with emphasis on recent theoretical and experimental results on dendritic crystal growth Saffman Taylor fingering directional solidification and chemical waves The unfolding of large scale low frequency behavior in weakly confined homogeneous systems driven far from equilibrium and more specifically the envelope approach to the mathematical description of textures in different cases steady cells propagating waves structural defects and phase instabilities The implications of the presence of global downstream transport in open flows for the nature convective or absolute of shear flow instabilities with applications to real boundary layer flows or shear layers as reported in contributions covering experimental situations of fundamental and or engineering interest

Reflexive Polymers and Hydrogels Nobuhiko Yui, Randall J. Mrsny, Kinam Park, 2004-03-17 Despite their capacity to carry out functions that previously were unobtainable smart polymers and hydrogels tend to have painfully slow response times On the other hand biological systems go through phase changes at an extremely fast rate Reflexive Polymers and Hydrogels examines the natural systems that respond almost instantaneously to environmental stimuli and thus gives the reader an understanding of the mechanisms that govern these responses The book includes chapters on approaches and procedures for designing a synthetic flash system based on naturally occurring systems It also deals with some of the promising potential applications of flash systems in industry

Nonlinear Dynamics and Chaos Steven H Strogatz, 2024-01-16 The goal of this third edition of Nonlinear Dynamics and Chaos With Applications to Physics Biology Chemistry and Engineering is the same as previous editions to provide a good foundation and a joyful experience for anyone who d like to learn about nonlinear dynamics and chaos from an applied perspective The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors The prerequisites are comfort with multivariable calculus and linear algebra as well as a first course in physics Ideas from probability complex analysis and Fourier analysis are invoked but they re either worked out from scratch or can be safely skipped or accepted on faith Changes to this edition include substantial exercises about conceptual models of climate change an updated treatment of the SIR model of epidemics and amendments based on recent research about the Selkov model of oscillatory glycolysis Equations diagrams and every word has been reconsidered and often revised There are also about 50 new references many of them from the recent literature The most notable change is a new chapter Chapter 13 is about the Kuramoto model The Kuramoto model is an icon of nonlinear dynamics Introduced in 1975 by the Japanese physicist Yoshiki Kuramoto his elegant model is one of the rare examples of a high dimensional nonlinear system that can be solved by elementary means Students and teachers have embraced the book in the past its general approach and framework continue to be sound

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