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NONLINEAR WAVES

IN DISPERSIVE AND

DISSIPATIVE SYSTEMS

WITH COUPLED FIELDS

SERGEI KORSUNSKY



Nonlinear Waves In Dispersive And Dissipative Systems With Coupled Fields

A.Cemal Eringen, Gerard A. Maugin



Nonlinear Waves In Dispersive And Dissipative Systems With Coupled Fields:

Quantitative Information Fusion for Hydrological Sciences Xing Cai,T.-C. Jim Yeh,2008-01-03 In this rapidly evolving world of knowledge and technology do you ever wonder how hydrology is catching up Here two highly qualified scientists edit a volume that takes the angle of computational hydrology and envision one of the science s future directions namely the quantitative integration of high quality hydrologic field data with geologic hydrologic chemical atmospheric and biological information to characterize and predict natural systems in hydrological sciences [Mechanistic Approaches to Interactions of Electric and Electromagnetic Fields with Living Systems](#) Martin Blank,E. Findl,2013-11-11 Although there is general agreement that exogenous electric and electromagnetic fields influence and modulate the properties of biological systems there is no consensus regarding the mechanisms by which such fields operate It is the purpose of this volume to bring together and examine critically the mechanistic models and concepts that have been proposed We have chosen to arrange the papers in terms of the level of biological organization emphasized by the contributors Some papers overlap categories but the progression from ions and membrane surfaces through macromolecules and the membrane matrix to integrated systems establishes a mechanistic chain of causality that links the basic interactions in the relatively well understood simple systems to the complex living systems where all effects occur simultaneously The backgrounds of the invited contributors include biochemistry biophysics cell biology electrical engineering electrochemistry electrophysiology medicine and physical chemistry As a result of this diversity the mechanistic models reflect the differing approaches used by these disciplines to explain the same phenomena Areas of agreement define the common ground while the areas of divergence provide opportunities for refining our ideas through further experimentation To facilitate the interaction between the different points of view the authors have clearly indicated those published observations that they are trying to explain i e the experiments that have been critical in their thinking This should establish a consensus regarding important observations In the discussion of theories [Variational and Extremum Principles in Macroscopic Systems](#) Stanislaw Sieniutycz,Henrik Farkas,2010-07-07 Recent years have seen a growing trend to derive models of macroscopic phenomena encountered in the fields of engineering physics chemistry ecology self organisation theory and econophysics from various variational or extremum principles Through the link between the integral extremum of a functional and the local extremum of a function explicit for example in the Pontryagin s maximum principle variational and extremum principles are mutually related Thus it makes sense to consider them within a common context The main goal of *Variational and Extremum Principles in Macroscopic Systems* is to collect various mathematical formulations and examples of physical reasoning that involve both basic theoretical aspects and applications of variational and extremum approaches to systems of the macroscopic world The first part of the book is focused on the theory whereas the second focuses on applications The unifying variational approach is used to derive the balance or conservation equations phenomenological equations linking fluxes and forces equations of change for processes

with coupled transfer of energy and substance and optimal conditions for energy management A unique multidisciplinary synthesis of variational and extremum principles in theory and application A comprehensive review of current and past achievements in variational formulations for macroscopic processes Uses Lagrangian and Hamiltonian formalisms as a basis for the exposition of novel approaches to transfer and conversion of thermal solar and chemical energy

Anisotropic and Nonlinear Optical Waveguides C.G. Someda,G.I. Stegeman,2012-12-02 Dielectric optical waveguides have been investigated for more than two decades In the last ten years they have had the unique position of being simultaneously the backbone of a very practical and fully developed technology as well as an extremely exciting area of basic forefront research Existing waveguides can be divided into two sets one consisting of waveguides which are already in practical use and the second of those which are still at the laboratory stage of their evolution This book is divided into two separate parts the first dealing with anisotropic waveguides and the second with nonlinear behaviour Nonlinear behaviour in optical waveguides is a topic of current research interest an effect eagerly being sought in waveguides The relative importance of nonlinearity versus anisotropy in theoretical papers changes enormously from problem to problem Many theories can be quite useful and enlightening even though they neglect entirely one of the two aspects Scientists may find their research work leading them in the near future to deal simultaneously with anisotropy and nonlinearity in order to pursue their own investigations This book will be of interest to researchers who first need to understand the individual topics suitably chosen from the two parts of this work thus providing them with the necessary ingredients to pursue their explorations

Electrodynamics of Continua II A.Cemal Eringen, Gerard A. Maugin,2012-12-06 This is the second volume of a two volume set presenting a unified approach to the electrodynamics of continua based on the principles of contemporary continuum of physics The first volume was devoted mainly to the development of the theory and applications to deformable solid media This volume extends the developments of the first volume to richer and newer grounds It contains discussions on fluid media magnetohydrodynamics eletrohydrodynamics and media with more complicated structures With the discussion in the last two chapters of memory dependent materials and non local E M theory the authors account for the nonlocal effects arising from motions and fields of material points at past times and at spatially distant points This discussion is included here to stimulate further research in these important fields which are presently in development stages The second volume is self contained and can be studied without the help of volume I A section summarizing the constitutive equations and the underlying physical ideas which were presented in more detail in the first volume is included This volume may be used as a basis for several graduate courses in engineering schools applied mathematics and physics departments It also contains fresh ideas and will stimulate further research in the directions the authors outline

Electrodynamics of Continua I A. Cemal Eringen, Gerard A. Maugin,2012-12-06 The electrodynamics of continua is a branch of the physical sciences concerned with the interaction of electromagnetic fields with deformable bodies De formable bodies are considered to be continua endowed with continuous

distributions of mass and charge The theory of electromagnetic continua is concerned with the determination of deformations motions stress and electromagnetic fields developed in bodies upon the applications of external loads External loads may be of mechanical origin e g forces couples constraints placed on the surface of the body and initial and boundary conditions arising from thermal and other changes and or electromagnetic origin e g electric magnetic and current fields Because bodies of different constitutions respond to external stimuli in a different way it is imperative to characterize properly the response functions relevant to a given class of continua This is done by means of the constitutive theory For example an elastic dielectric responds to electromagnetic fields in a totally different way than a magnetic fluid The present book is intended to present a unified approach to the subject matter based on the principles of contemporary continuum physics

Nonlinear Waves in Dispersive and Dissipative Systems Sergiy Korsunsky, 1997-02-11 This monograph investigates a wide range of problems where nonlinear wave phenomena play a crucial role for instance in nonlinear acoustics fluid dynamics plasma physics and magnetohydrodynamics The aim of the book is to deliver a general approach to the investigation of complicated mechanical systems affected by the action of different external forces taking into account the intrinsic coupling of internal wave fields

Fundamentals Of Theoretical Plasma Physics: Mathematical Description Of Plasma Waves Hee J Lee, 2019-03-06 This book is written as a senior undergraduate and graduate textbook of theoretical plasma physics topics include Boltzmann equation two fluid equations magnetohydrodynamics Vlasov Maxwell Plasma absolute and convective instabilities fundamental kinetic theory Lenard Balescu equation electric fluctuation plasma electrodynamics and causality nonlinear waves inverse scattering method surface waves and dusty plasma It also includes special topics like parametric instabilities and kinetic theory of surface waves in a plasma slab The development of theory is presented through gentle mathematical steps through easy and straightforward demonstration The readers will be able to appreciate the beauty of mathematical analysis in connection with theoretical plasma physics

Fusion Energy Update, 1979 Nonlinear Dynamics Muthusamy Lakshmanan, Shanmuganathan Rajaseekar, 2012-12-06 Integrability chaos and patterns are three of the most important concepts in nonlinear dynamics These are covered in this book from fundamentals to recent developments The book presents a self contained treatment of the subject to suit the needs of students teachers and researchers in physics mathematics engineering and applied sciences who wish to gain a broad knowledge of nonlinear dynamics It describes fundamental concepts theoretical procedures experimental and numerical techniques and technological applications of nonlinear dynamics Numerous examples and problems are included to facilitate the understanding of the concepts and procedures described In addition to 16 chapters of main material the book contains 10 appendices which present in depth mathematical formulations involved in the analysis of various nonlinear systems

Scientific and Technical Aerospace Reports, 1994 *Surveys in Applied Mathematics* Mark I. Freidlin, Sergey Gredeskul, John K. Hunter, Andrew Marchenko, Leonid Pastur, 2012-12-06 Volume 2 offers three in depth articles covering

significant areas in applied mathematics research Chapters feature numerous illustrations extensive background material and technical details and abundant examples The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations using probabilistic methods examine wave localization phenomena in one dimensional random media and offer an extensive introduction to certain model equations for nonlinear wave phenomena *BTL Talks and Papers* Bell Telephone Laboratories, inc. Technical Information Libraries,1975 **Progress in Optics** ,2002-05-17 The seven reviews articles presented in this volume cover a broad range of subjects The first article is concerned with the use of active optics in modern large telescopes The second article discusses variational methods used in nonlinear fibre optics and in related fields The article by O Keller which follows deals with a topic of historical interest presenting a account of researches of the Danish physicist L V Lorenz who in 1867 established the electrodynamic theory of light independently of the work of James Clerk Maxwell The fourth article is concerned with the canonical quantum description of light propagation in dielectric media The fifth article by D Dragoman describes the similarities and the differences between classical optics and quantum mechanics in phase space The article by R Boyd and D Gauthier which follows summarizes research on pulse propagation effects in resonant material system The concluding article by A Torre is concerned with the fractional Fourier transform and some of it applications in optics It is clear that the articles in this volume cover a broad range of subjects some of which are likely to be of interest to many scientists concerned with optical theory or with optical devices *Nuclear Science Abstracts* ,1973 **Stochastic Pdes And Modelling Of Multiscale Complex System** Xiaopeng Chen,Yan Lv,Wei Wang,2019-05-07 This volume is devoted to original research results and survey articles reviewing recent developments in reduction for stochastic PDEs with multiscale as well as application to science and technology and to present some future research direction This volume includes a dozen chapters by leading experts in the area with a broad audience in mind It should be accessible to graduate students junior researchers and other professionals who are interested in the subject We also take this opportunity to celebrate the contributions of Professor Anthony J Roberts an internationally leading figure on the occasion of his 60th years birthday in 2017 **Plasma Physics Index** ,1981 *Biological Coherence and Response to External Stimuli* Herbert Fröhlich,2012-12-06 This book presents an extensive treatment of the introduction of modern physical concepts into biology In particular the concept of coherence finds wide applications and yields novel results in context with multiple problems as they arise in biology these include long range resonant cellular effects and resonant interactions of biological tissues with low intensity electro magnetic radiation Extensive experimental support of the theoretical concept is presented **Collective Beings** Gianfranco Minati,Eliano Pessa,2006-12-26 Microscopic models 226 The intrinsic limitations of the theory of phase transitions 229 5 3 Quantum Field Theory 230 5 4 Spontaneous Symmetry Breaking 239 5 5 Non ideal models of emergence 249 5 5 1 Neural networks 250 5 5 2 Cellular Automata 261 5 5 3 Artificial Life 265 5 6 The role of noise 273 5 7 The relationships between traditional and non traditional models 279 Chapter 6 The

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