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# **Nonlinear Phenomena in Mathematical Sciences**

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Edited by  
**W. Lakshmikantham**

# **Nonlinear Phenomena In Mathematical Sciences**

**Carlos Castillo-Chavez, Sally  
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Yakubu**



## **Nonlinear Phenomena In Mathematical Sciences:**

Nonlinear Phenomena in Mathematical Sciences V. Lakshmikantham, 2014-05-12 Nonlinear Phenomena in Mathematical Sciences contains the proceedings of an International Conference on Nonlinear Phenomena in Mathematical Sciences held at the University of Texas at Arlington on June 16 20 1980 The papers explore trends in nonlinear phenomena in mathematical sciences with emphasis on nonlinear functional analytic methods and their applications nonlinear wave theory and applications to medical and life sciences In the area of nonlinear functional analytic methods and their applications the following subjects are discussed optimal control theory periodic oscillations of nonlinear mechanical systems Leray Schauder degree theory differential inequalities applied to parabolic and elliptic partial differential equations bifurcation theory stability theory in analytical mechanics singular and ordinary boundary value problems etc The following topics in nonlinear wave theory are considered nonlinear wave propagation in a randomly homogeneous media periodic solutions of a semilinear wave equation asymptotic behavior of solutions of strongly damped nonlinear wave equations shock waves and dissipation theoretical methods for a nonlinear Schrödinger equation and nonlinear hyperbolic Volterra equations occurring in viscoelasticity Applications to medical and life sciences include mathematical modeling in physiology pharmacokinetics and neuro mathematics along with epidemic modeling and parameter estimation techniques This book will be helpful to students practitioners and researchers in the field of mathematics

## **Nonlinear Phenomena in Mathematical Sciences ,**

Nonlinear Phenomena in Mathematical Sciences Vangipuram Lakshmikantham, 1982      **Nonlinear Phenomena in Mathematical Sciences** V. Lakshmikantham, 1982      **Nonlinear Partial Differential Equations** A Benkirane, J P Gossez, 1996-04-11 This book presents a collection of selected contributions on recent results in nonlinear partial differential equations from participants to an international conference held in Fes Morocco in 1994 The emphasis is on nonlinear elliptic boundary value problems but there are also papers devoted to related areas such as monotone operator theory calculus of variations Hamiltonian systems and periodic solutions Some of the papers are exhaustive surveys while others contain new results published here for the first time This book will be of particular interest to graduate or postgraduate students as well as to specialists in these areas      *Nonlinear Phenomena in Biological & Physical Sciences* S. K. Malik, M. K.

Chandrashekar, N. Pradhan, 2000 Contributed articles on nonlinear mathematical applications published as an offshoot of a seminar held at Amritsar in 1998      Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models,

Methods, and Theory Carlos Castillo-Chavez, Sally Blower, Pauline van den Driessche, Denise Kirschner, Abdul-Aziz Yakubu, 2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125 Mathematical Approaches for Emerging and Reemerging Infectious Diseases An

Introduction The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY I would like to thank Carlos Castillo Chavez Director of the Mathematical and Theoretical Biology Institute and a member of the Departments of Biometrics Statistics and Theoretical and Applied Mechanics Cornell University Sally M Blower Biomathematics UCLA School of Medicine Pauline van den Driessche Mathematics and Statistics University of Victoria and Denise Kirschner Microbiology and Immunology University of Michigan Medical School for their superb roles as organizers of the meetings and editors of the proceedings Carlos Castillo Chavez especially made a major contribution by spearheading the editing process I am also grateful to Kenneth L Cooke Mathematics Pomona College for being one of the workshop organizers and to Abdul Aziz Yakubu Mathematics Howard University for serving as co editor of the proceedings I thank Simon A Levin Ecology and Evolutionary Biology Princeton University for providing an introduction

**Differential Equations And Applications To Biology And To Industry - Proceedings Of The Claremont International Conference Dedicated To The Memory Of Stavros Busenberg (1941 - 1993)** Kenneth Cooke, Ellis Cumberbatch, Mario Martelli, Betty Tang, Horst Thieme, 1995-12-08 This volume is dedicated to the memory of Professor Stavros Busenberg of Harvey Mudd College who contributed so greatly to this field during 25 years prior to his untimely death It contains about 60 invited papers by leading researchers in the areas of dynamical systems mathematical studies in ecology epidemics and physiology and industrial mathematics Anyone interested in these areas will find much of value in these contributions Mathematical Approach to Nonlinear Phenomena T. Aiki, N. Kenmochi, M. Niezgodka, M. Otani, 2006-05 Nonlinear Evolution Equations Songmu Zheng, 2004-07-08 Nonlinear evolution equations arise in many fields of sciences including physics mechanics and material science This book introduces some important methods for dealing with these equations and explains clearly and concisely a wide range of relevant theories and techniques These include the semigroup method the compactness and monotone operator **Ten Mathematical Essays on Approximation in Analysis and Topology** Juan Ferrera, J. Lopez-Gomez, F.R. Ruiz del Portal, 2005-04-26 This book collects 10 mathematical essays on approximation in Analysis and Topology by some of the most influent mathematicians of the last third of the 20th Century Besides the papers contain the very ultimate results in each of their respective fields many of them also include a series of historical remarks about the state of mathematics at the time they found their most celebrated results as well as some of their personal circumstances originating them which makes particularly attractive the book for all scientist interested in these fields from beginners to experts These gem pieces of mathematical intra history should delight to many forthcoming generations of mathematicians who will enjoy some of the most fruitful mathematics of the last third of 20th century presented by their own authors This book covers a wide range of new mathematical results Among them the most advanced characterisations of very weak versions of the classical maximum principle the very last results on global bifurcation theory algebraic multiplicities general dependencies of solutions of boundary value problems with respect to variations of the

underlying domains the deepest available results in rapid monotone schemes applied to the resolution of non linear boundary value problems the intra history of the the genesis of the first general global continuation results in the context of periodic solutions of nonlinear periodic systems as well as the genesis of the coincidence degree some novel applications of the topological degree for ascertaining the stability of the periodic solutions of some classical families of periodic second order equations the resolution of a number of conjectures related to some very celebrated approximation problems in topology and inverse problems as well as a number of applications to engineering an extremely sharp discussion of the problem of approximating topological spaces by polyhedra using various techniques based on inverse systems as well as homotopy expansions and the Bishop Phelps theorem Key features It contains a number of seminal contributions by some of the most world leading mathematicians of the second half of the 20th Century The papers cover a complete range of topics from the intra history of the involved mathematics to the very last developments in Differential Equations Inverse Problems Analysis Nonlinear Analysis and Topology All contributed papers are self contained works containing rather complete list of references on each of the subjects covered The book contains some of the very last findings concerning the maximum principle the theory of monotone schemes in nonlinear problems the theory of algebraic multiplicities global bifurcation theory dynamics of periodic equations and systems inverse problems and approximation in topology The papers are extremely well written and directed to a wide audience from beginners to experts An excellent occasion to become engaged with some of the most fruitful mathematics developed during the last decades

**Mathematical Ecology** S.A. Levin,T.G. Hallam,2013-03-13 *Dynamics and Bifurcations* Jack K. Hale,Hüseyin Kocak,2012-12-06 The subject of differential and difference equations is an old and much honored chapter in science one which germinated in applied fields such as celestial mechanics nonlinear oscillations and fluid dynamics In recent years due primarily to the proliferation of computers dynamical systems has once more turned to its roots in applications with perhaps a more mature look Many of the available books and expository narratives either require extensive mathematical preparation or are not designed to be used as textbooks The authors have filled this void with the present book

**Hyperbolic Partial Differential Equations** Matthew Witten,2014-05-17 *Hyperbolic Partial Differential Equations Volume 1 Population Reactors Tides and Waves Theory and Applications* covers three general areas of hyperbolic partial differential equation applications These areas include problems related to the McKendrick Von Foerster population equations other hyperbolic form equations and the numerical solution This text is composed of 15 chapters and begins with surveys of age specific population interactions populations models of diffusion nonlinear age dependent population growth with harvesting local and global stability for the nonlinear renewal equation in the Von Foerster model and nonlinear age dependent population dynamics The next chapters deal with various applications of hyperbolic partial differential equations to such areas as age structured fish populations density dependent growth in a cell colony boll weevil cotton crop modeling age dependent predation and cannibalism parasite populations

growth of microorganisms and stochastic perturbations in the Von Foerster model These topics are followed by discussions of bifurcation of time periodic solutions of the McKendrick equation the periodic solution of nonlinear hyperbolic problems and semigroup theory as applied to nonlinear age dependent population dynamics Other chapters explore the stability of biochemical reaction tanks an ADI model for the Laplace tidal equations the Carleman equation the nonequilibrium behavior of solids that transport heat by second sound and the nonlinear hyperbolic partial differential equations and dynamic programming The final chapters highlight two explicitly numerical applications a predictor convex corrector method and the Galerkin approximation in hyperbolic partial differential equations This book will prove useful to practicing engineers population researchers physicists and mathematicians

**Nonlinear Science** Zensho Yoshida, 2010-03-10 Modern science has abstracted as compensation for establishing rigorousness the complexity of the real world and has inclined toward oversimplified notions as a result a disjunction has emerged between the wisdom of science and reality Reflecting on this we see the need for science to recover reality can it reveal new avenues for thought and investigation of the complexity The study of science is the pursuit of clarity and distinctness Physics after Galilei placed it in the realm of mathematics has been trying to establish clearness by mathematical logic While physics and mathematics respectively have different intellectual incentives they have intersected in history on countless occasions and have woven a flawless system of wisdom The core of rigorous science is always made of mathematical logic the laws of science cannot be represented without the language of mathematics Conversely it is undoubtedly difficult to stimulate mathematical intellect without a reference to the interests of science that are directed to the real world However various criticisms have been raised against the discourses of sciences that explain the events of the real world as if they are governed by mathematical laws Sciences being combined with technologies have permeated in the form of technical rationalism the domain of life politics and even the psychological world The criticisms accuse seemingly logical scientific narratives of being responsible for widespread destruction and emergence of crises unprecedented suffering of humanity

**Quasimolecular Modelling** Donald Greenspan, 1991-11-15 In this book the author has tried to apply a little imagination and thinking to modelling dynamical phenomena from a classical atomic and molecular point of view Nonlinearity is emphasized as are phenomena which are elusive from the continuum mechanics point of view FORTRAN programs are provided in the Appendices

**Experimental and mathematical analysis for nonlinear phenomena** Masaharu Nagayama, 2005

Stochastic versus Deterministic Systems of Differential Equations G. S. Ladde, M. Sambandham, 2003-12-05 This peerless reference text unfurls a unified and systematic study of the two types of mathematical models of dynamic processes stochastic and deterministic as placed in the context of systems of stochastic differential equations Using the tools of variational comparison generalized variation of constants and probability distribution as its methodological backbone Stochastic Versus Deterministic Systems of Differential Equations addresses questions relating to the need for a stochastic mathematical model and the between model contrast that arises in the absence of

random disturbances fluctuations and parameter uncertainties both deterministic and stochastic      **Annual Report for**  
**Fiscal Year ...** National Science Foundation (U.S.),1983      **Regularity and Stochasticity of Nonlinear Dynamical**  
**Systems** Dimitri Volchenkov,Xavier Leoncini,2017-06-24 This book presents recent developments in nonlinear dynamics and  
physics with an emphasis on complex systems The contributors provide recent theoretic developments and new techniques to  
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