

Mathematical Structures of Nonlinear Science

An Introduction

Melvyn S. Berger



NONLINEAR TOPICS IN THE MATHEMATICAL SCIENCES

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Mathematical Structures Of Nonlinear Science

Toka Diagana, Bourama Toni



Mathematical Structures Of Nonlinear Science:

Mathematical Structures of Nonlinear Science Melvyn S. Berger, 2012-12-06 This is the first volume of a series of books that will describe current advances and past accomplishments of mathematical aspects of nonlinear science taken in the broadest contexts This subject has been studied for hundreds of years yet it is the topic in which a number of outstanding discoveries have been made in the past two decades Clearly this trend will continue In fact we believe some of the great scientific problems in this area will be clarified and perhaps resolved One of the reasons for this development is the emerging new mathematical ideas of nonlinear science It is clear that by looking at the mathematical structures themselves that underlie experiment and observation that new vistas of conceptual thinking lie at the foundation of the unexplored area in this field To speak of specific examples one notes that the whole area of bifurcation was rarely talked about in the early parts of this century even though it was discussed mathematically by Poincaré at the end of the nineteenth century In another direction turbulence has been a key observation in fluid dynamics yet it was only recently in the past decade that simple computer studies brought to light simple dynamical models in which chaotic dynamics hopefully closely related to turbulence can be observed

Nonlinear Systems and Their Remarkable Mathematical Structures Norbert Euler, Maria Clara Nucci, 2019-12-06 Nonlinear Systems and Their Remarkable Mathematical Structures Volume 2 is written in a careful pedagogical manner by experts from the field of nonlinear differential equations and nonlinear dynamical systems both continuous and discrete This book aims to clearly illustrate the mathematical theories of nonlinear systems and its progress to both non experts and active researchers in this area Just like the first volume this book is suitable for graduate students in mathematics applied mathematics and engineering sciences as well as for researchers in the subject of differential equations and dynamical systems Features Collects contributions on recent advances in the subject of nonlinear systems Aims to make the advanced mathematical methods accessible to the non experts Suitable for a broad readership including researchers and graduate students in mathematics and applied mathematics

Nonlinear Systems and Their Remarkable Mathematical Structures Norbert Euler, 2018-11-19 Nonlinear Systems and Their Remarkable Mathematical Structures Volume 1 aims to describe the recent progress in nonlinear differential equations and nonlinear dynamical systems both continuous and discrete Written by experts each chapter is self contained and aims to clearly illustrate some of the mathematical theories of nonlinear systems The book should be suitable for some graduate and postgraduate students in mathematics the natural sciences and engineering sciences as well as for researchers both pure and applied interested in nonlinear systems The common theme throughout the book is on solvable and integrable nonlinear systems of equations and methods theories that can be applied to analyze those systems Some applications are also discussed Features Collects contributions on recent advances in the subject of nonlinear systems Aims to make the advanced mathematical methods accessible to the non expert in this field Written to be accessible to some graduate and postgraduate students in mathematics and applied mathematics

Serves as a literature source in nonlinear systems **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 fictitious narratives 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 Mathematical Structures in Continuous Dynamical Systems E. W. C. van Groesen, Eduardus Marie de Jager, 1994 This work addresses several aspects of continuous dynamical systems all of which can be viewed as generalizations of methods from classical mechanics Equations such as the Korteweg de Vries nonlinear Schrodinger Sine Gordon and Boussinesq equations are treated in detail **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 Systems and Their Remarkable Mathematical Structures** Norbert Euler, Da-jun Zhang, 2021-09-06 The third volume in this sequence of books consists of a collection of contributions that aims to describe the recent progress in nonlinear differential equations and nonlinear dynamical systems both continuous and discrete Nonlinear Systems and Their Remarkable Mathematical Structures Volume 3 Contributions from China just like the first two volumes consists of contributions by world leading experts in the subject of nonlinear systems but in this instance only featuring contributions by leading Chinese scientists who also work in China in some cases in collaboration with western scientists Features Clearly illustrate the mathematical theories of nonlinear systems and its progress to both the non expert and active researchers in this area Suitable for graduate students in Mathematics Applied Mathematics and some of the Engineering Sciences Written in a careful pedagogical manner by those experts who have been involved in the research themselves and each contribution is reasonably

self contained Symmetry And Complexity: The Spirit And Beauty Of Nonlinear Science Klaus Mainzer,2005-06-10 Cosmic evolution leads from symmetry to complexity by symmetry breaking and phase transitions The emergence of new order and structure in nature and society is explained by physical chemical biological social and economic self organization according to the laws of nonlinear dynamics All these dynamical systems are considered computational systems processing information and entropy Are symmetry and complexity only useful models of science or are they universals of reality Symmetry and Complexity discusses the fascinating insights gained from natural social and computer sciences philosophy and the arts With many diagrams and pictures this book illustrates the spirit and beauty of nonlinear science In the complex world of globalization it strongly argues for unity in diversity *Mathematical Models of Chemical Reactions* Péter Érdi,János Tóth,1989 **Nonlinear Systems and Their Remarkable Mathematical Structures Volumes 1 2 And 3** Taylor & Francis Group,2021-09-30 **Mathematical Structures of Epidemic Systems** Vincenzo Capasso,2008-07-22 The dynamics of infectious diseases represents one of the oldest and richest areas of mathematical biology From the classical work of Hamer 1906 and Ross 1911 to the state of more modern developments associated with Anderson and May Dietz Hethcote Castillo Chavez and others the subject has grown dramatically both in volume and in importance Given the pace of development the subject has become more and more diverse and the need to provide a framework for organizing the diversity of mathematical approaches has become clear Enzo Capasso who has been a major contributor to the mathematical theory has done that in the present volume providing a system for organizing and analyzing a wide range of models depending on the structure of the interaction matrix The first class the quasi monotone or positive feedback systems can be analyzed effectively through the use of comparison theorems that is the theory of order preserving dynamical systems the second the skew symmetrizable systems rely on Lyapunov methods Capasso develops the general mathematical theory and considers a broad range of examples that can be treated within one or the other framework In so doing he has provided the first steps towards the unification of the subject and made an invaluable contribution to the Lecture Notes in Biomathematics Simon A Levin Princeton January 1993 Author's Preface to Second Printing In the Preface to the First Printing of this volume I wrote

Council for African American Researchers in the Mathematical Sciences: Volume IV Gaston M.

N'Guerekata,Asamoah Nkwanta,Council for African American Researchers in the Mathematical Sciences,2001 Since the first conference in 1995 significant numbers of researchers have presented their current work in technical talks and graduate students have presented their work in organized poster sessions BOOK JACKET Knowledge Management, Organizational Intelligence And Learning, And Complexity - Volume I L. Douglas Kiel,2009-08-25 Knowledge Management Organizational Intelligence and Learning and Complexity is the component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Knowledge Management Organizational Intelligence and Learning and Complexity

in the Encyclopedia of Technology Information and Systems Management Resources provides the latest scientific insights into the evolution of complexity in both the natural and social realms Emerging perspectives from the fields of knowledge management computer based simulation and the organizational sciences are presented as tools for understanding and supporting this evolving complexity and the earth's life support systems These three volumes are aimed at the following a wide spectrum of audiences from the merely curious to those seeking in depth knowledge University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Scientific and Technical Aerospace Reports ,1992-11 **Mathematical Structures and Applications** Toka

Diagana,Bourama Toni,2018-10-31 This contributed volume features invited papers on current research and applications in mathematical structures Featuring various disciplines in the mathematical sciences and physics articles in this volume discuss fundamental scientific and mathematical concepts as well as their applications to topical problems Special emphasis is placed on important methods research directions and applications of analysis within and beyond each field Covered topics include Metric operators and generalized hermiticity Semi frames Hilbert Schmidt operator Symplectic affine action Fractional Brownian motion Walker Osserman metric Nonlinear Maxwell equations The Yukawa model Heisenberg observables Nonholonomic systems neural networks Seiberg Witten invariants photon added coherent state electrostatic double layers and star products and functions All contributions are from the participants of the conference held October 2016 in Cotonou Benin in honor of Professor Mahouton Norbert Hounkonnou for his outstanding contributions to the mathematical and physical sciences and education Accessible to graduate students and postdoctoral researchers this volume is a useful resource to applied scientists applied and pure mathematicians and mathematical and theoretical physicists

Bifurcations in Flow Patterns P.G. Bakker,2012-12-06 The main idea of the present study is to demonstrate that the qualitative theory of differential equations when applied to problems in fluid and gasdynamics will contribute to the understanding of qualitative aspects of fluid flows in particular those concerned with geometrical properties of flow fields such as shape and stability of its streamline patterns It is obvious that insight into the qualitative structure of flow fields is of great importance and appears as an ultimate aim of flow research Qualitative insight fashions our knowledge and serves as a good guide for further quantitative investigations Moreover qualitative information can become very useful especially when it is applied in close correspondence with numerical methods in order to interpret and value numerical results A qualitative analysis may be crucial for the investigation of the flow in the neighbourhood of singularities where a numerical method is not reliable anymore due to discretisation errors being unacceptable Up till now familiar research methods frequently based on rigorous analyses careful numerical procedures and sophisticated experimental techniques have increased considerably our qualitative knowledge of flows albeit that the information is often obtained indirectly by a process of a careful but cumbersome examination of quantitative data In the past decade new methods are under development that yield the

qualitative information more directly. These methods make use of the knowledge available in the qualitative theory of differential equations and in the theory of bifurcations.

Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures Asteris, Panagiotis G., Plevris, Vagelis, 2015-07-13 Rehabilitation of heritage monuments provides sustainable development and cultural significance to a region. The most sensitive aspect of the refurbishment of existing buildings lies in the renovation and recovery of structural integrity and public safety. The Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures evaluates developing contributions in the field of earthquake engineering with regards to the analysis and treatment of structural damage inflicted by seismic activity. This book is a vital reference source for professionals, researchers, students and engineers active in the field of earthquake engineering who are interested in the emergent developments and research available in the preservation and rehabilitation of heritage buildings following seismic activity.

Applied Mechanics Reviews, 1985

Mathematical Modeling and Control in Life and Environmental Sciences Sebastian Anița, Vincenzo Capasso, Simone Scacchi, 2024-04-29 This monograph explores the use of mathematical modeling and control theory in a variety of contemporary challenges in mathematical biology and environmental sciences. Emphasizing an approach of learning by doing, the authors focus on a set of significant case studies emerging from real world problems and illustrate how mathematical techniques and computational experiments can be employed in the search for sustainable solutions. The following topics are extensively discussed: Eradicability and control of a paradigmatic epidemic model with a view to the existence of endemic states, their stability and the existence of travelling waves; A spatially structured epidemic model concerning malaria as an example of vector borne epidemics; Optimal harvesting problems for space structured and age structured population dynamics; Controlling epidemics in agriculture due to pest insects; The role of predators as a possible biocontrol agent of epidemics in agriculture; Control by taxation of the environmental pollution produced by human activities. The originality of this text is in its leitmotif: regional control along the principle of Think Globally, Act Locally. Indeed, for example, in many real spatially structured ecosystems it is practically impossible to control the relevant system by global interventions in the whole habitat. Proofs are given whenever they may serve as a guide to the introduction of new concepts. Each chapter includes a comprehensive description of the numerical methods used for the computational experiments and MATLAB codes for many of the numerical simulations are available for download. Several challenging open problems are also provided to stimulate future research. This text is aimed at mathematicians, engineers and other scientists working in areas such as biology, medicine and economics. Graduate and advanced undergraduate students of a quantitative subject related to the analysis and applications of dynamical systems and their control will also find it to be a valuable resource.

Geometric Theory of Incompressible Flows with Applications to Fluid Dynamics Tian Ma, Shouhong Wang, 2005 This monograph presents a geometric theory for incompressible flow and its applications to fluid dynamics. The main objective is to study the stability and transitions of the structure of incompressible

flows and its applications to fluid dynamics and geophysical fluid dynamics The development of the theory and its applications goes well beyond its original motivation of the study of oceanic dynamics The authors present a substantial advance in the use of geometric and topological methods to analyze and classify incompressible fluid flows The approach introduces genuinely innovative ideas to the study of the partial differential equations of fluid dynamics One particularly useful development is a rigorous theory for boundary layer separation of incompressible fluids The study of incompressible flows has two major interconnected parts The first is the development of a global geometric theory of divergence free fields on general two dimensional compact manifolds The second is the study of the structure of velocity fields for two dimensional incompressible fluid flows governed by the Navier Stokes equations or the Euler equations Motivated by the study of problems in geophysical fluid dynamics the program of research in this book seeks to develop a new mathematical theory maintaining close links to physics along the way In return the theory is applied to physical problems with more problems yet to be explored The material is suitable for researchers and advanced graduate students interested in nonlinear PDEs and fluid dynamics

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