

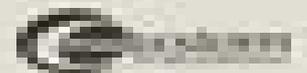
Discrete Dynamical SYSTEMS

Mathematics, Methods, and Models



FOURTH REVISED PRELIMINARY EDITION

David C. Amey
Frank R. Giordano
John S. Robertson



Discrete Dynamical Systems Mathematics Methods And Models

Albert C. J. Luo



Discrete Dynamical Systems Mathematics Methods And Models:

Discrete Dynamical Systems David C. Arney, Frank R. Giordano, John S. Robertson, United States Military Academy. Department of Mathematical Sciences, 1999 *Discrete and Switching Dynamical Systems* Albert C J Luo, 2011-12-01

Discrete and Switching Dynamical Systems is a unique book about stability and its switching complexity in discrete dynamical systems and provides a simple and concise view of the theory of stability and bifurcation in nonlinear discrete dynamical systems. Linear discrete systems with repeated eigenvalues are presented as an introduction. Higher order singularity stability and bifurcations in nonlinear discrete dynamical systems are presented. Several examples are presented to illustrate chaos, fractality and complete dynamics of nonlinear discrete dynamical systems. Switching systems with transports are discussed comprehensively as a general fashion to present continuous and discrete mixed systems and mapping dynamics. Grazing phenomena and strange attractor fragmentation are also presented for a better understanding of regularity and complexity in discrete switching and discontinuous dynamical systems. This book is written as a textbook or reference book for university students, professors and researchers in applied mathematics, physics, engineering, economics, dynamics and finance. Albert C J Luo is an internationally recognized professor in nonlinear dynamics and mechanics. He worked at Southern Illinois University, Edwardsville, USA. His principal research interests lie in the fields of Hamiltonian chaos, nonlinear mechanics and discontinuous dynamical systems. A different view of stability and bifurcations in discrete dynamical systems. Higher order singularity stability, switching complexity and bifurcations. Chaos, fractality and complete dynamics. How to construct mappings from physical systems. Mapping dynamics, grazing, invariance and strange attractor fragmentation. User friendly presentation and intuitive illustrations. Wide audience due to instructive and comprehensive examples.

[Introduction to Mathematical Modeling Using Discrete Dynamical Systems](#) Frederick R. Marotto, 2005-09-01

Using discrete dynamical systems, this book introduces powerful mathematical modeling techniques, both standard analytical and modern computational, to students in mathematics, the natural sciences and the social sciences. With minimal mathematical background, students will quickly progress from the traditional study of exponential growth and decay that simple linear equations always exhibit to an investigation of recently discovered chaotic dynamics often associated with nonlinear systems. A wide diversity of applications demonstrates the usefulness and relevance of topics that have often been viewed as excessively theoretical or abstract, such as sequences, limits, linear algebra, complex variables and more. By taking advantage of discrete dynamical systems, students will have the opportunity to experience some fascinating areas of mathematical discovery.

Discrete Dynamical Models Ernesto Salinelli, Franco Tomarelli, 2014-06-11

This book provides an introduction to the analysis of discrete dynamical systems. The content is presented by a unitary approach that blends the perspective of mathematical modeling together with the ones of several disciplines, as Mathematical Analysis, Linear Algebra, Numerical Analysis, Systems Theory and Probability. After a preliminary discussion of several models, the main tools for the

study of linear and non linear scalar dynamical systems are presented paying particular attention to the stability analysis Linear difference equations are studied in detail and an elementary introduction of Z and Discrete Fourier Transform is presented A whole chapter is devoted to the study of bifurcations and chaotic dynamics One step vector valued dynamical systems are the subject of three chapters where the reader can find the applications to positive systems Markov chains networks and search engines The book is addressed mainly to students in Mathematics Engineering Physics Chemistry Biology and Economics The exposition is self contained some appendices present prerequisites algorithms and suggestions for computer simulations The analysis of several examples is enriched by the proposition of many related exercises of increasing difficulty in the last chapter the detailed solution is given for most of them

Geometric Methods for Discrete Dynamical Systems Robert W. Easton,1998-02-26 This book looks at dynamics as an iteration process where the output of a function is fed back as an input to determine the evolution of an initial state over time The theory examines errors which arise from round off in numerical simulations from the inexactness of mathematical models used to describe physical processes and from the effects of external controls The author provides an introduction accessible to beginning graduate students and emphasizing geometric aspects of the theory Conley s ideas about rough orbits and chain recurrence play a central role in the treatment The book will be a useful reference for mathematicians scientists and engineers studying this field and an ideal text for graduate courses in dynamical systems

Numerical Methods and Analysis with Mathematical Modelling William P. Fox,Richard D. West,2024-08-07 What sets Numerical Methods and Analysis with Mathematical Modelling apart are the modelling aspects utilizing numerical analysis methods to obtain solutions The authors cover first the basic numerical analysis methods with simple examples to illustrate the techniques and discuss possible errors The modelling prospective reveals the practical relevance of the numerical methods in context to real world problems At the core of this text are the real world modelling projects Chapters are introduced and techniques are discussed with common examples A modelling scenario is introduced that will be solved with these techniques later in the chapter Often the modelling problems require more than one previously covered technique presented in the book Fundamental exercises to practice the techniques are included Multiple modelling scenarios per numerical methods illustrate the applications of the techniques introduced Each chapter has several modelling examples that are solved by the methods described within the chapter The use of technology is instrumental in numerical analysis and numerical methods In this text Maple Excel R and Python are illustrated The goal is not to teach technology but to illustrate its power and limitations to perform algorithms and reach conclusions This book fulfills a need in the education of all students who plan to use technology to solve problems whether using physical models or true creative mathematical modeling like discrete dynamical systems

Techniques in Mathematical Modelling Gautami Devar,2025-02-20 Techniques in Mathematical Modelling is a comprehensive textbook designed to provide students researchers and practitioners with a solid foundation in the principles techniques and applications of mathematical modelling

We cover a wide range of topics from fundamental concepts and analytical techniques to validation methods and emerging trends. Each chapter includes practical examples, case studies, and exercises to reinforce learning and demonstrate real-world applications. Our book emphasizes the interdisciplinary nature of mathematical modelling with applications in physics, biology, economics, engineering, social sciences, and more. We encourage hands-on learning through practical exercises, simulations, and projects, allowing readers to apply theoretical concepts to real-world scenarios. Additionally, we explore emerging trends and challenges in the field, including advancements in computational techniques, data analytics, and interdisciplinary collaborations. Written in clear and accessible language, *Techniques in Mathematical Modelling* caters to readers with varying levels of mathematical background, making it suitable for undergraduate and graduate students as well as professionals.

Explorations of Mathematical Models in Biology with MATLAB Mazen Shahin, 2013-12-24. Explore and analyze the solutions of mathematical models from diverse disciplines. As biology increasingly depends on data algorithms and models, it has become necessary to use a computing language such as the user-friendly MATLAB to focus more on building and analyzing models, as opposed to configuring tedious calculations. *Explorations of Mathematical Models in Biology with MATLAB* provides an introduction to model creation using MATLAB, followed by the translation, analysis, interpretation, and observation of the models. With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications, the book illustrates numerous applications of mathematical techniques within biology, ecology, and environmental sciences. Featuring a quantitative computational and mathematical approach, the book includes examples of real-world applications such as population dynamics, genetics, drug administration, interacting species, and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques. Discussion of various mathematical concepts such as Markov chains, matrix algebra, eigenvalues, eigenvectors, first-order linear difference equations, and nonlinear first-order difference equations. Coverage of difference equations to model a wide range of real-life discrete-time situations in diverse areas, as well as discussions on matrices to model linear problems. Solutions to selected exercises and additional MATLAB codes. *Explorations of Mathematical Models in Biology with MATLAB* is an ideal textbook for upper undergraduate courses in mathematical models in biology, theoretical ecology, bioeconomics, forensic science, applied mathematics, and environmental science. The book is also an excellent reference for biologists, ecologists, mathematicians, biomathematicians, and environmental and resource economists.

Trends in Biomathematics: Modeling Epidemiological, Neuronal, and Social Dynamics Rubem P. Mondaini, 2023-07-24. This volume gathers together selected peer-reviewed works presented at the BIOMAT 2022 International Symposium, which was virtually held on November 7-11, 2022, with an organization staff based in Rio de Janeiro, Brazil. Topics touched on in this volume include infection spread in a population described by an agent-based approach, the study of gene essentiality via network-based computational modeling, stochastic models of neuronal dynamics, and the modeling of a statistical distribution of amino acids in protein domain.

families The reader will also find texts in epidemic models with dynamic social distancing with no vertical transmission and with general incidence rates Aspects of COVID 19 dynamics the use of an SEIR model to analyze its spread in Brazil the age dependent manner of modeling its spread pattern the impact of media awareness programs and a web based computational tool for Non invasive hemodynamics evaluation of coronary stenosis are also covered Held every year since 2001 The BIOMAT International Symposium gathers together in a single conference researchers from Mathematics Physics Biology and affine fields to promote the interdisciplinary exchange of results ideas and techniques promoting truly international cooperation for problem discussion BIOMAT volumes published from 2017 to 2021 are also available by Springer

Neural Network Modeling and Identification of Dynamical Systems Yury Tiumentsev, Mikhail Egorchev, 2019-05-17 Neural Network Modeling and Identification of Dynamical Systems presents a new approach on how to obtain the adaptive neural network models for complex systems that are typically found in real world applications The book introduces the theoretical knowledge available for the modeled system into the purely empirical black box model thereby converting the model to the gray box category This approach significantly reduces the dimension of the resulting model and the required size of the training set This book offers solutions for identifying controlled dynamical systems as well as identifying characteristics of such systems in particular the aerodynamic characteristics of aircraft Covers both types of dynamic neural networks black box and gray box including their structure synthesis and training Offers application examples of dynamic neural network technologies primarily related to aircraft Provides an overview of recent achievements and future needs in this area

Mathematical Modeling for Business Analytics William Fox, 2017-12-15 Mathematical Modeling for Business Analytics is written for decision makers at all levels This book presents the latest tools and techniques available to help in the decision process The interpretation and explanation of the results are crucial to understanding the strengths and limitations of modeling This book emphasizes and focuses on the aspects of constructing a useful model formulation as well as building the skills required for decision analysis The book also focuses on sensitivity analysis The author encourages readers to formally think about solving problems by using a thorough process Many scenarios and illustrative examples are provided to help solve problems Each chapter is also comprehensively arranged so that readers gain an in depth understanding of the subject which includes introductions background information and analysis Both undergraduate and graduate students taking methods courses in methods and discrete mathematical modeling courses will greatly benefit from using this book Boasts many illustrative examples to help solve problems Provides many solutions for each chapter Emphasizes model formulation and helps create model building skills for decision analysis Provides the tools to support analysis and interpretation

Mathematical Methods in Medical and Biological Sciences Harendra Singh, Hari M Srivastava, 2024-11-05 Mathematical Methods in Medical and Biological Sciences presents mathematical methods for computational models arising in the medical and biological sciences The book presents several real life medical and biological models such as infectious and non infectious

diseases that can be modeled mathematically to accomplish profound research in virtual environments when the cost of laboratory expenses is relatively high It focuses on mathematical techniques that provide global solutions for models arising in medical and biological sciences by considering their long term benefits In addition the book provides leading edge developments and insights for a range of applications including epidemiological modeling of pandemic dynamics viral infection developments cancer developments blood oxygen dynamics HIV infection spread reaction diffusion models polio infection spread and chaos modeling with fractional order derivatives Presents the mathematical treatment of a wide range of real life medical and biological models including both infectious and non infectious diseases Provides in depth analysis of the spread of Covid 19 polio and HIV including discussion of computational methods and applications Includes computational modeling methods along with their practical applications providing the basis for further exploration and research in epidemiology and applied biomedical sciences

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Discrete and switching dynamical systems is a unique book about stability and its switching complexity in discrete dynamical systems and provides a simple and concise view of the theory of stability and bifurcation in nonlinear discrete dynamical systems Linear discrete systems with repeated eigenvalues are presented as an introduction Higher order singularity stability and bifurcations in nonlinear discrete dynamical systems are presented Several examples are presented to illustrate chaos fractality and complete dynamics of nonlinear discrete dynamical systems Switching systems with transports are discussed comprehensively as a general fashion to present continuous and discrete mixed systems and mapping dynamics grazing phenomena and strange attractor fragmentation are also presented for a better understanding of regularity and complexity in discrete switching and discontinuous dynamical systems This book is written as a textbook or reference book for university students professors and researchers in applied mathematics physics engineering economics dynamics and finance

Modeling, Stochastic Control, Optimization, and Applications George Yin,Qing Zhang,2019-07-16

This volume collects papers based on invited talks given at the IMA workshop in Modeling Stochastic Control Optimization and Related Applications held at the Institute for Mathematics and Its Applications University of Minnesota during May and June 2018 There were four week long workshops during the conference They are 1 stochastic control computation methods and applications 2 queueing theory and networked systems 3 ecological and biological applications and 4 finance and economics applications For broader impacts researchers from different fields covering both theoretically oriented and application intensive areas were invited to participate in the conference It brought together researchers from multi disciplinary communities in applied mathematics applied probability engineering biology ecology and networked science to review and substantially update most recent progress As an archive this volume presents some of the highlights of the workshops and collect papers covering a broad range of topics

Discrete Dynamical Modeling James T. Sandefur,1993

An introduction to a wide range of techniques and applications used in dynamical mathematical modelling Emphasizing algebraic concepts

the text encourages students to develop a different manner of thinking about mathematics in order to apply mathematical concepts to other fields

Mathematical and Intelligent Models in System Simulation ,1991 [Mathematics Catalog 2005](#) Neil Thomson,2004-10 **Mathematical Reviews** ,2008 **Formal Methods for Discrete-Time Dynamical Systems** Calin Belta,Boyan Yordanov,Ebru Aydin Gol,2017-03-08 This book bridges fundamental gaps between control theory and formal methods Although it focuses on discrete time linear and piecewise affine systems it also provides general frameworks for abstraction analysis and control of more general models The book is self contained and while some mathematical knowledge is necessary readers are not expected to have a background in formal methods or control theory It rigorously defines concepts from formal methods such as transition systems temporal logics model checking and synthesis It then links these to the infinite state dynamical systems through abstractions that are intuitive and only require basic convex analysis and control theory terminology which is provided in the appendix Several examples and illustrations help readers understand and visualize the concepts introduced throughout the book **SIAM Journal on Scientific Computing** ,2006

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