



Discrete Dynamical Modeling

Hiromi Seno



Discrete Dynamical Modeling:

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 *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 an unitary approach that blends the perspective of mathematical modeling together with the ones of several discipline 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 [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 Systems** James T. Sandefur, 1990 This textbook is an elementary introduction to the world of dynamical systems and Chaos Dynamical systems provide a mathematical means of modeling and analysing aspects of the changing world around us The aim of this ground breaking new text is to introduce the reader both to the wide variety of techniques used to study dynamical systems and to their many applications In particular investigation of dynamical systems leads to the important concepts of stability strange attractors Chaos and fractals **Mathematical Modeling with Excel** Brian Albright, 2009-07-25 Mathematical modeling is the use of applying mathematics to real world problems and investigating important questions about their outcomes Mathematical Modeling with

Excel presents various methods used to build and analyze mathematical models in a format that students can quickly comprehend. Excel is used as a tool to accomplish this goal of building and analyzing the models. Ideal for math and secondary math education majors, this text presents a wide variety of common types of models as well as some new types and presents each in a unique, easy-to-understand format. End-of-chapter exercises ask students to modify or refine the existing model, analyze it further, or adapt it to similar scenarios.

Dynamic Models of Infectious Diseases

V. Sree Hari Rao, Ravi Durvasula, 2013-11-30. Though great advances in public health are witnessed world over in recent years, infectious diseases besides insect vector-borne infectious diseases remain a leading cause of morbidity and mortality. Control of the epidemics caused by the non-vector-borne diseases such as tuberculosis, avian influenza H5N1, and *Cryptococcus gattii* have left a very little hope in the past. The advancement of research in science and technology has paved way for the development of new tools and methodologies to fight against these diseases. In particular, intelligent technology and machine learning-based methodologies have rendered useful in developing more accurate predictive tools for the early diagnosis of these diseases. In all these endeavors, the main focus is the understanding that the process of transmission of an infectious disease is nonlinear, not necessarily linear, and dynamical in character. This concept compels the appropriate quantification of the vital parameters that govern these dynamics. This book is ideal for a general science and engineering audience requiring an in-depth exposure to current issues, ideas, methods, and models. The topics discussed serve as a useful reference to clinical experts, health scientists, public health administrators, medical practitioners, and senior undergraduate and graduate students in applied mathematics, biology, bioinformatics, and epidemiology, medicine, and health sciences.

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 Dynamic Modeling, Simulation and Control of Energy Generation Ranjan Vepa,2013-09-11 This book addresses the core issues involved in the dynamic modeling simulation and control of a selection of energy systems such as gas turbines wind turbines fuel cells and batteries The principles of modeling and control could be applied to other non convention methods of energy generation such as solar energy and wave energy A central feature of Dynamic Modeling Simulation and Control of Energy Generation is that it brings together diverse topics in thermodynamics fluid mechanics heat transfer electro chemistry electrical networks and electrical machines and focuses on their applications in the field of energy generation its control and regulation This book will help the reader understand the methods of modelling energy systems for controller design application as well as gain a basic understanding of the processes involved in the design of control systems and regulators It will also be a useful guide to simulation of the dynamics of energy systems and for implementing monitoring systems based on the estimation of internal system variables from measurements of observable system variables Dynamic Modeling Simulation and Control of Energy Generation will serve as a useful aid to designers of hybrid power generating systems involving advanced technology systems such as floating or offshore wind turbines and fuel cells The book introduces case studies of the practical control laws for a variety of energy generation systems based on nonlinear dynamic models without relying on linearization Also the book introduces the reader to the use nonlinear model based estimation techniques and their application to energy systems **Global Analysis of Dynamic Models in Economics and Finance** Gian Italo Bischi,Carl Chiarella,Iryna Sushko,2012-08-07 The essays in this special volume survey some of the most recent advances in the global analysis of dynamic models for economics finance and the social sciences They deal in particular with a range of topics from mathematical methods as well as numerous applications including recent developments on asset pricing heterogeneous beliefs global bifurcations in complementarity games international subsidy games and issues in economic geography A number of stochastic dynamic models are also analysed The book is a collection of essays in honour of the 60th birthday of Laura Gardini A Primer on Population Dynamics Modeling Hiromi Seno,2022-11-16 This textbook provides an introduction to the mathematical models of population dynamics in mathematical biology The focus of this book is on the biological meaning translation of mathematical structures in mathematical models rather than simply explaining mathematical details and literacies to analyze a model In some recent usages of the mathematical model simply with computer numerical calculations the model includes some inappropriate mathematical structure concerning the reasonability of modeling for the biological problem under investigation For students and researchers who study or use mathematical models it is important and helpful to understand what mathematical setup

could be regarded as reasonable for the model with respect to the relation between the biological factors involved in the assumptions and the mathematical structure of the model Topics covered in this book are modeling with geometric progression density effect in population dynamics deriving continuous time models from discrete time models basic modeling for birth death stochastic processes continuous time models modeling interspecific reaction for the continuous time population dynamics model competition and prey predator dynamics modeling for population dynamics with a heterogeneous structure of population qualitative analysis on the discrete time dynamical system necessary knowledge about fundamental mathematical theories to understand the dynamical nature of continuous time models The book includes popular topics in ecology and mathematical biology as well as classic theoretical topics By understanding the biological meaning of modeling for simple models readers will be able to derive a specific mathematical model for a biological problem by reasonable modeling The contents of this book is made accessible for readers without strong Mathematical background *Elementary Mathematical Modeling* James Sandefur,2002-09 The student solutions manual provides worked out solutions to the odd numbered problems in the text **Soft Computing and its Engineering Applications** Kanubhai K. Patel,Deepak Garg,Atul Patel,Pawan Lingras,2021-03-04 This book constitutes the refereed proceedings of the Second International Conference on Soft Computing and its Engineering Applications icSoftComp 2020 held in Changa India in December 2020 Due to the COVID 19 pandemic the conference was held online The 24 full papers and 4 short papers presented were carefully reviewed and selected from 252 submissions The papers present recent research on theory and applications in fuzzy computing neuro computing and evolutionary computing *Analysis and Modelling of Discrete Dynamical Systems* Daniel Benest,Claude Froeschle,1998-10-28 The theory of dynamical systems or mappings plays an important role in various disciplines of modern physics including celestial mechanics and fluid mechanics This comprehensive introduction to the general study of mappings has particular emphasis on their applications to the dynamics of the solar system The book forms a bridge between continuous systems which are suited to analytical developments and to discrete systems which are suitable for numerical exploration Featuring chapters based on lectures delivered at the School on Discrete Dynamical Systems Aussois France February 1996 the book contains three parts Numerical Tools and Modelling Analytical Methods and Examples of Application It provides a single source of information that until now has been available only in widely dispersed journal articles Discrete-time Dynamic Models Ronald K. Pearson,1999 Fueled by advances in computer technology model based approaches to the control of industrial processes are now widespread While there is an enormous literature on modeling the difficult first step of selecting an appropriate model structure has received almost no attention This book fills the gap providing practical insight into model selection for chemical processes and emphasizing structures suitable for control system design **Systems Pharmacology and Pharmacodynamics** Donald E. Mager,Holly H.C. Kimko,2016-11-29 While systems biology and pharmacodynamics have evolved in parallel there are significant interrelationships that can

enhance drug discovery and enable optimized therapy for each patient Systems pharmacology is the relatively new discipline that is the interface between these two methods This book is the first to cover the expertise from systems biology and pharmacodynamics researchers describing how systems pharmacology may be developed and refined further to show practical applications in drug development There is a growing awareness that pharmaceutical companies should reduce the high attrition in the pipeline due to insufficient efficacy or toxicity found in proof of concept and or Phase II studies Systems Pharmacology and Pharmacodynamics discusses the framework for integrating information obtained from understanding physiological pathological pathways normal body function system vs perturbed system due to disease and pharmacological targets in order to predict clinical efficacy and adverse events through iterations between mathematical modeling and experimentation

A Mathematical Treatment of Dynamical Models in Biological Science Kristína Smítalová, Štefan Šujan, 1991 Providing a comprehensive introduction to mathematical modelling in biology and ecology this book presents numerous results and developments The basic mathematical facts on the theory of the dynamics of biological communities are presented with emphasis placed on the quantitative aspects

Changing Core Mathematics David C. Arney, Donald B. Small, 2002 Mathematicians engineers and physical scientists discuss how the first two years of a core college mathematics program should change over the next five to ten years to meet the mathematical needs of partner disciplines and society s needs arising from globalization and the information age They examine issues related to goals and content anticipated advances in technology and new instructional techniques and make recommendations for future course designs that emphasize modeling inquiry and conceptual understanding Arney is dean of the School of Mathematics and Sciences at the College of Saint Rose Small is on the faculty of the Department of Mathematics at the United States Military Academy There is no subject index Annotation copyrighted by Book News Inc Portland OR

Elementary Mathematical Modeling James T. Sandefur, 2003 ELEMENTARY MATHEMATICAL MODELING uses mathematics to study problems arising in areas such as Genetics Finance Medicine and Economics Throughout the course of the book students learn how to model a real situation such as testing levels of lead in children or environmental cleanup They then learn how to analyze that model in relationship to the real world such as making recommendations for minimum treatment time for children exposed to lead paint or determining the minimum time required to adequately clean up a polluted lake Often the results will be counterintuitive such as finding that an increase in the rate of wild life harvesting may actually decrease the long term harvest or that a lottery prize that is paid out over a number of years is worth far less than its advertised value This use of mathematics illustrates and models real world issues and questions bringing the value of mathematics to life for students enabling them to see perhaps for the first time the utility of mathematics

Modal Aerosol Dynamics Modeling Evan R. Whitby, 1991

Finite Element Based Dynamical Modeling of Flexible Open-loop Manipulators with Experimental Results Daniel W. Williams, 1990

Discrete Dynamical Modeling Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Discrete Dynamical Modeling**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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