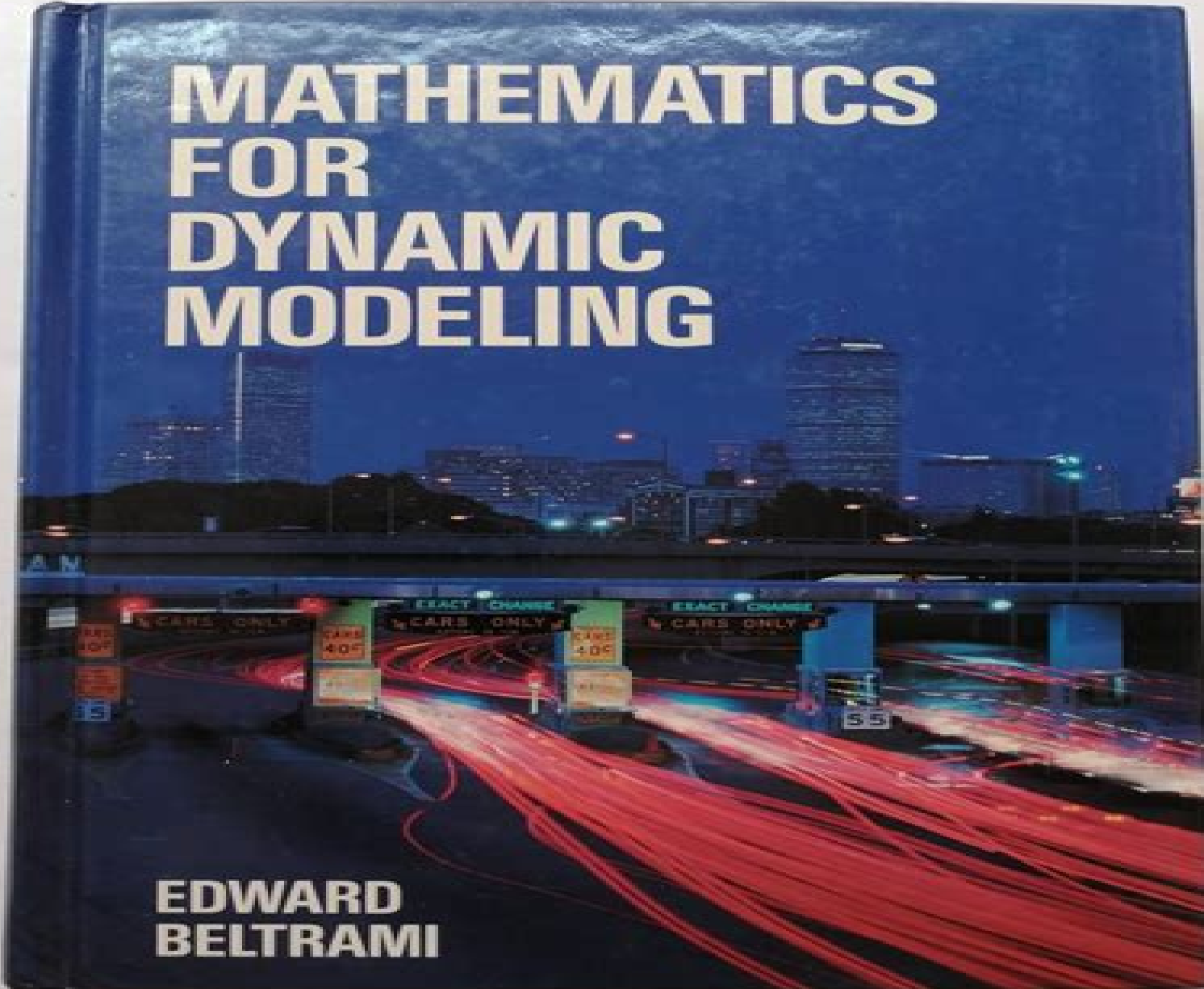


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Modeling Dynamic Biological Systems Bruce Hannon, Matthias Ruth, 2012-12-06 Models help us understand the dynamics of real world processes by using the computer to mimic the actual forces that are known or assumed to result in a system's behavior This book does not require a substantial background in mathematics or computer science

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Dynamic Modeling of Diseases and Pests Bruce Hannon, Matthias Ruth, 2008-10-16 The ease of use of the programs in the application to ever more complex cases of disease and pestilence The lack of need on the part of the student or modelers of mathematics beyond algebra and the lack of need of any prior computer programming experience The surprising insights that can be gained from initially simple systems models

An Invitation to Biomathematics Raina Robeva, James R. Kirkwood, Robin Lee Davies, Leon Farhy, Boris Kovatchev, Martin Straume, Michael L. Johnson, 2007-08-28 Essential for all biology and biomathematics courses this textbook provides students with a fresh perspective of quantitative techniques in biology in a field where virtually any advance in the life sciences requires a sophisticated mathematical approach An Invitation to Biomathematics expertly written by a team of experienced educators offers students a solid understanding of solving biological problems with mathematical applications This text succeeds in enabling students to truly experience advancements made in biology through mathematical models by containing computer based hands on laboratory projects with emphasis on model development model validation and model refinement The supplementary work Laboratory Manual of Biomathematics is available separately ISBN 0123740223 or as a set ISBN 0123740290 Provides a complete guide for development of quantification skills crucial for applying mathematical methods to biological problems Includes well known examples from across disciplines in the life sciences including modern biomedical research Explains how to use data sets or dynamical processes to build mathematical models Offers extensive illustrative materials Written in clear and easy to follow language without assuming a background in math or biology A laboratory manual is available for hands on computer assisted projects based on material covered in the text

MATHEMATICAL MODELS - Volume I Jerzy A. Filar, Jacek B Krawczyk, 2009-09-19 Mathematical Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mathematical Models discusses matters of great relevance to our world such as Basic Principles of Mathematical Modeling Mathematical Models in Water Sciences Mathematical Models in Energy Sciences Mathematical Models of Climate and Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Dynamic Modeling for Marine Conservation Matthias Ruth, James

Lindholm, 2012-12-06 The effects of disturbed ecosystems from devastating algal blooms to the loss of whale populations have demonstrated the vulnerability of the oceans biodiversity This book provides methods for learning how ocean systems function how natural and human actions put them in peril and how we can influence the marine world in order to maintain biodiversity The difficulties of research in the oceans make computer modeling particularly helpful for marine conservation The authors demonstrate dynamic modeling through the use of the STELLA modeling program and case studies from marine conservation

Chaos A.A. Tsonis, 2012-12-06 Based on chaos theory two very important points are clear 1 random looking aperiodic behavior may be the product of determinism and 2 nonlinear problems should be treated as nonlinear problems and not as simplified linear problems The theoretical aspects of chaos have been presented in great detail in several excellent books published in the last five years or so However while the problems associated with applications of the theory such as dimension and Lyapunov exponent estimation chaos and nonlinear prediction and noise reduction have been discussed in workshops and articles they have not been presented in book form This book has been prepared to fill this gap between theory and applications and to assist students and scientists wishing to apply ideas from the theory of nonlinear dynamical systems to problems from their areas of interest The book is intended to be used as a text for an upper level undergraduate or graduate level course as well as a reference source for researchers My philosophy behind writing this book was to keep it simple and informative without compromising accuracy I have made an effort to present the concepts by using simple systems and step by step derivations Anyone with an understanding of basic differential equations and matrix theory should follow the text without difficulty The book was designed to be self contained When applicable examples accompany the theory The reader will notice however that in the later chapters specific examples become less frequent This is purposely done in the hope that individuals will draw on their own ideas and research projects for examples

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