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discrete and continuous scenarios the book is ideal for an introductory

course for undergraduate and graduate students engineers applied mathematicians and researchers working in various areas of natural and applied sciences

this book describes recent developments in a wide range of areas including the modeling analysis and control of dynamical systems and explores related applications the book provided a forum where researchers have shared their ideas results on theory and experiments in application problems the current literature devoted to dynamical systems is quite large and the authors choice for the considered topics was motivated by the following considerations firstly the mathematical jargon for systems theory remains quite complex and the authors feel strongly that they have to maintain connections between the people of this research field secondly dynamical systems cover a wider range of applications including engineering life sciences and environment the authors consider that the book is an important contribution to the state of the art in the fuzzy and dynamical systems areas

the purpose of this book is to introduce the basic principles and techniques of model studies which will prove very useful for analysis design and review of structural design especially of those structures which are not amenable to treatment by the usually simpler and faster theoretical methods

mathematical models use mathematical tools to describe the performance and behavior of a system they can be of different forms like statistical models game theoretic models dynamical systems etc mathematical modeling has significant applications in the diverse areas of science and engineering such as physics artificial intelligence economics operations research etc through this book we attempt to further enlighten the readers about the new concepts in this field for someone with an interest and eye for detail this book covers the most significant topics in the field of mathematical modeling it will provide comprehensive knowledge to the readers

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introductory text on nonlinear and continuous time dynamic systems using bond graph methodology to enable readers to develop and apply physical system models through an integrated and uniform approach to system modeling analysis and control modeling of physical systems uses realistic examples to link empirical analytical and numerical approaches and provide readers with the essential foundation needed to move towards more advanced topics in systems engineering rather than use only a linear modeling methodology this book also incorporates nonlinear modeling approaches the authors approach the topic using bond graph methodology a well known and highly effective method for the modeling and analysis of multi energy domain systems at the physical level with a strong focus on fundamentals this book begins by reviewing core topics which engineering students will have been exposed to in their first two years of study it then expands into introducing systematic model development using a bond graph approach later chapters expand on the fundamental understanding of systems with insights regarding how to make decisions on what to model and how much complexity is needed for a particular problem written by two professors with nearly a century of combined research and industry experience modeling of physical systems explores topics including basic kirchoff systems covering mechanical translation and rotation electrical hydraulic and thermal systems and ideal couplers a complete introduction to bond graph methods and their application to practical engineering system modeling computer based analysis and simulation covering algebraic analysis of system equation and semi analytical analysis for linear system response multiport fields distributed systems and transmission elements covering heat and magnetism power lines and wave propagation modeling with w and h lines signal and power in measurement and control covering derivative control and effect of feedback modeling of physical systems is an essential learning resource for mechanical mechatronics and aerospace engineering students at the graduate and senior graduate level the text is also valuable for professional engineers and researchers controls engineers and computer scientists seeking an understanding of engineering system modeling

this book is aimed primarily towards physicists and mechanical engineers specializing in modeling analysis and control of discontinuous systems with friction and impacts it fills a gap in the existing literature by offering an original contribution to the field of discontinuous mechanical systems

based on mathematical and numerical modeling as well as the control of such systems each chapter provides the reader with both the theoretical background and results of verified and useful computations including solutions of the problems of modeling and application of friction laws in numerical computations results from finding and analyzing impact solutions the analysis and control of dynamical systems with discontinuities etc the contents offer a smooth correspondence between science and engineering and will allow the reader to discover new ideas also emphasized is the unity of diverse branches of physics and mathematics towards understanding complex piecewise smooth dynamical systems mathematical models presented will be important in numerical experiments experimental measurements and optimization problems found in applied mechanics publisher s website

this text is intended for use in introductory management science courses for undergraduate business students or mbas the focus of the book is model building and the proper use analysis and interpretation of model results it stresses modelling and gives only intuitive explanations of algorithmic and theoretical topics computer spreadsheets are emphasized throughout the book as a vehicle for modelling the book is designed for the non major and takes a user s rather than a doer s approach

in today s world where intelligent technologies are deeply transforming human computer interaction and virtual reality multi modal human modeling analysis and synthesis have become central topics in computer vision as application scenarios grow increasingly complex new technologies continue to emerge to address these challenges these techniques demand systematic summarization and practical guidance to meet this need multi modal human modeling analysis and synthesis aims to adopt a structured perspective building a comprehensive technical framework for multi modal human modeling analysis and synthesis progressing from local details to holistic perspectives and from face features to body dynamics this book begins by examining the anatomy structures and characteristics of human faces and bodies then analyzes how traditional methods and deep learning approaches provide robust optimization solutions for modeling for example it explores how to address challenges in face recognition caused by lighting changes occlusions face expressions and aging as well as methods for body localization reconstruction recognition and anomaly detection in multi modal scenarios it also explains how multi modal data can drive realistic face and body synthesis a standout feature is its focus on huawei s mindspore framework bridging the gap between algorithms and engineering through practical

case studies from building face detection and recognition pipelines with the mindspore toolkit to accelerating model training via automatic parallel computing and solving large language model llm training challenges each step is supported by reproducible code and design logic designed for researchers and engineers in computer vision and ai this book balances theoretical foundations with industry ready technical details whether you aim to enhance the reliability of biometric recognition explore creative possibilities in virtual real interactions or optimize the deployment of deep learning frameworks this guide serves as an essential link between academic advancements and real world applications

categorical data analysis and multilevel modeling using r provides a practical guide to regression techniques for analyzing binary ordinal nominal and count response variables using the r software author xing liu offers a unified framework for both single level and multilevel modeling of categorical and count response variables with both frequentist and bayesian approaches each chapter demonstrates how to conduct the analysis using r how to interpret the models and how to present the results for publication a companion website for this book contains datasets and r commands used in the book for students and solutions for the end of chapter exercises on the instructor site

process modelling and model analysis describes the use of models in process engineering process engineering is all about manufacturing of just about anything to manage processing and manufacturing systematically the engineer has to bring together many different techniques and analyses of the interaction between various aspects of the process for example process engineers would apply models to perform feasibility analyses of novel process designs assess environmental impact and detect potential hazards or accidents to manage complex systems and enable process design the behavior of systems is reduced to simple mathematical forms this book provides a systematic approach to the mathematical development of process models and explains how to analyze those models additionally there is a comprehensive bibliography for further reading a question and answer section and an accompanying site developed by the authors with additional data and exercises introduces a structured modeling methodology emphasizing the importance of the modeling goal and including key steps such as model verification calibration and validation focuses on novel and advanced modeling techniques such as discrete hybrid hierarchical and empirical modeling illustrates the notions tools and techniques of process modeling with examples and advances applications

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