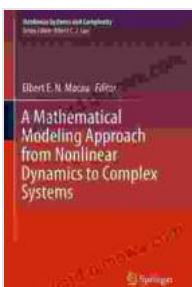


Mathematical Modeling Approach From Nonlinear Dynamics To Complex Systems

This book provides a comprehensive introduction to mathematical modeling in the context of nonlinear dynamics and complex systems. It covers a wide range of topics, from basic concepts to advanced techniques, and offers a unique perspective on the interdisciplinary nature of mathematical modeling.



A Mathematical Modeling Approach from Nonlinear Dynamics to Complex Systems (Nonlinear Systems and Complexity Book 22) by E. B. Dynkin

 4 out of 5

Language : English

File size : 28070 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Word Wise : Enabled

Print length : 353 pages

Screen Reader : Supported

X-Ray for textbooks : Enabled

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Nonlinear Dynamics

Nonlinear dynamics is the study of systems that exhibit nonlinear behavior. This means that the behavior of the system cannot be described by a linear equation. Nonlinear systems are often chaotic, meaning that they are unpredictable and can exhibit strange and unexpected behavior.

Nonlinear dynamics has applications in a wide range of fields, including physics, biology, economics, and engineering. For example, nonlinear dynamics can be used to model the behavior of weather systems, the spread of diseases, and the evolution of financial markets.

Complex Systems

Complex systems are systems that are composed of many interacting parts. These systems are often difficult to understand because the behavior of the individual parts cannot be used to predict the behavior of the system as a whole.

Complex systems are found in a wide range of fields, including biology, ecology, social sciences, and engineering. For example, complex systems can be used to model the behavior of ecosystems, the spread of diseases, and the evolution of cities.

Mathematical Modeling

Mathematical modeling is the process of creating a mathematical representation of a real-world system. This representation can be used to study the behavior of the system, make predictions, and design new systems.

Mathematical modeling is used in a wide range of fields, including science, engineering, economics, and business. For example, mathematical modeling can be used to model the behavior of weather systems, the spread of diseases, and the evolution of financial markets.

This Book

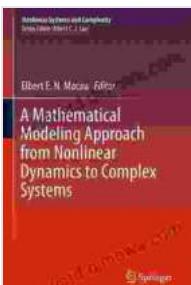
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The book is divided into four parts.

1. Part I introduces the basic concepts of nonlinear dynamics and complex systems.
2. Part II covers a range of mathematical techniques that can be used to model nonlinear dynamics and complex systems.
3. Part III presents a number of case studies that illustrate how mathematical modeling can be used to solve real-world problems.
4. Part IV discusses the future of mathematical modeling in the context of nonlinear dynamics and complex systems.

This book is a valuable resource for anyone who is interested in learning more about mathematical modeling in the context of nonlinear dynamics and complex systems. It is also a valuable resource for anyone who is working in a field that uses mathematical modeling.

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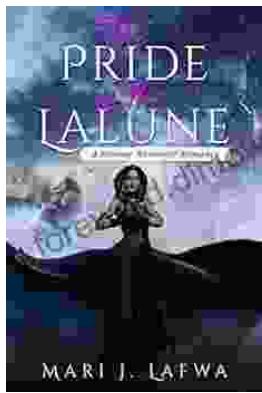
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