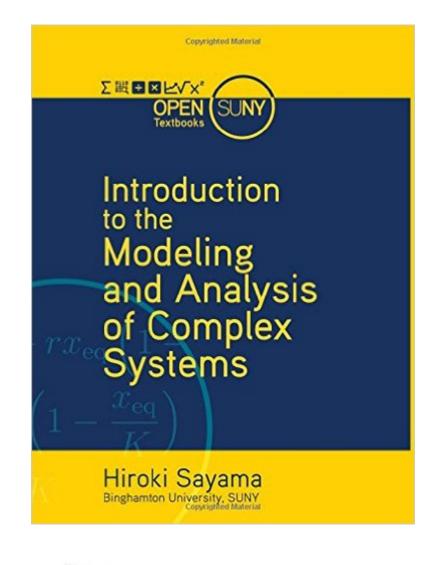
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Introduction To The Modeling And Analysis Of Complex Systems





Synopsis

Introduction to the Modeling and Analysis of Complex Systems introduces students to mathematical/computational modeling and analysis developed in the emerging interdisciplinary field of Complex Systems Science. Complex systems are systems made of a large number of microscopic components interacting with each other in nontrivial ways. Many real-world systems can be understood as complex systems, where critically important information resides in the relationships between the parts and not necessarily within the parts themselves. This textbook offers an accessible yet technically-oriented introduction to the modeling and analysis of complex systems, discrete-time models, continuous-time models, bifurcations, chaos, cellular automata, continuous field models, static networks, dynamic networks, and agent-based models. Most of these topics are discussed in two chapters, one focusing on computational modeling and the other on mathematical analysis. This unique approach provides a comprehensive view of related concepts and techniques, and allows readers and instructors to flexibly choose relevant materials based on their objectives available free online from the Open SUNY Textbooks website (http://textbooks.opensuny.org).

Book Information

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Customer Reviews

you can get the PDF for free, it is opensource...just google it.

If you are interested in dynamical environment modeling this book will be your main reference. You

will be able to convert your thoughts into a model after reading this book. This book covers a simplest linear models to the much complex agent based models. I highly recommend this book.

One of the most straightforward and helpful resources I have come across to make what are typically difficult topics graspable, sensible, and fun. Big ups Hiroki!

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