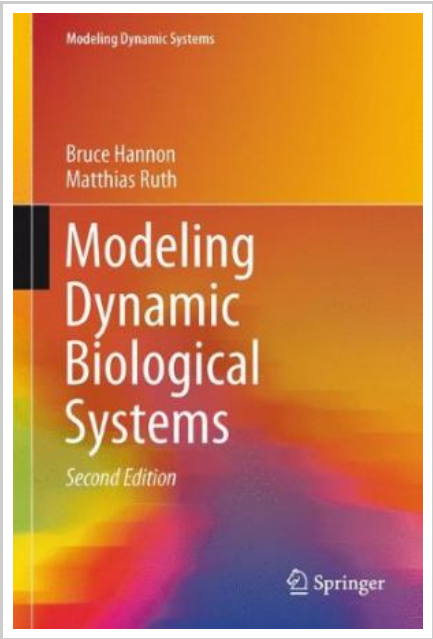

Modeling Dynamic Biological Systems

By Hannon, Bruce / Ruth, Matthias

Book Condition: New. Publisher/Verlag: Springer, Berlin | This volume teaches computer modeling of biological systems using models created by STELLA software, including cell development, the beating heart and the spread of epidemics. It includes easy-to-use software modules that require no prior experience to use. | Many biologists and ecologists have developed models that find widespread use in theoretical investigations and in applications to organism behavior, disease control, population and metapopulation theory, ecosystem dynamics, and environmental management. This book captures and extends the process of model development by concentrating on the dynamic aspects of these processes and by providing the tools such that virtually anyone with basic knowledge in the Life Sciences can develop meaningful dynamic models. Examples of the systems modeled in the book range from models of cell development, the beating heart, the growth and spread of insects, spatial competition and extinction, to the spread and control of epidemics, including the conditions for the development of chaos. Key features: - easy-to-learn and easy-to-use software - examples from many subdisciplines of biology, covering models of cells, organisms, populations, and metapopulations - no prior computer or programming experience required Key benefits: - learn how to develop modeling skills and system thinking...

Reviews

It in a single of my personal favorite ebook. Better then never, though i am quite late in start reading this one. I am effortlessly will get a satisfaction of reading a published ebook.

-- ***Ms. Lavada Krajcik***

Comprehensive guideline for book lovers. It can be filled with knowledge and wisdom I realized this publication from my dad and i suggested this pdf to find out.

-- ***Ted Schumm***