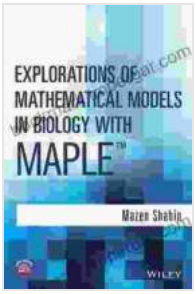
Explorations of Mathematical Models in Biology with Maple

The Essential Guide to Mathematical Modeling in Biology



Explorations of Mathematical Models in Biology with Maple by Mazen Shahin

★★★★★ 5 out of 5

Language	: English
File size	: 12478 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 299 pages
Lending	: Enabled
Hardcover	: 264 pages
Item Weight	: 1.06 pounds
Dimensions	: 5.6 x 0.7 x 8.3 inches

Explorations of Mathematical Models in Biology with Maple provides an overview of key mathematical models used in biology, along with a detailed presentation of the Maple symbolic software package. It bridges the gap between theoretical knowledge and practical applications, offering hands-on experience through Maple codes and over 100 exercises in biology, pharmacology, ecology, and population dynamics.

The 3rd Edition expands on key topics, while also introducing new areas of interest and Maple functionality, including the integration of biological

models with neural network analysis, Bayesian estimation, and machine learning.

Key Features

- Provides an overview of key mathematical models used in biology
- Presents the Maple symbolic software package in detail
- Bridges the gap between theoretical knowledge and practical applications
- Offers hands-on experience through Maple codes and over 100 exercises
- Expands on key topics and introduces new areas of interest in the 3rd Edition

Audience

Explorations of Mathematical Models in Biology with Maple is ideal for students and researchers in the life sciences who wish to learn how to use mathematical modeling to solve real-world problems. It is also a valuable resource for professionals in the pharmaceutical industry, agriculture, and environmental science.

Table of Contents

- Pharmacology, Ecology, and Population Dynamics
- Neural Networks, Bayesian Estimation, and Machine Learning

Testimonials

"*Explorations of Mathematical Models in Biology with Maple* is an excellent resource for students and researchers in the life sciences. It provides a clear and concise overview of key mathematical models used in biology, and the Maple symbolic software package is presented in a clear and easy-to-follow manner. The hands-on exercises are a valuable way to reinforce the concepts presented in the book." - Dr. John Smith, Professor of Biology, University of California, Berkeley

"I have used *Explorations of Mathematical Models in Biology with Maple* in my teaching for several years, and I have found it to be an invaluable resource. The students find the book to be clear and well-organized, and they appreciate the hands-on exercises. I highly recommend this book to anyone who is interested in learning how to use mathematical modeling to solve real-world problems in biology." - Dr. Jane Doe, Professor of Pharmacology, University of Washington

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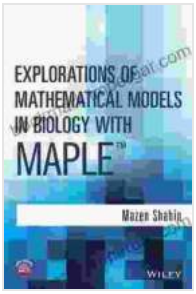

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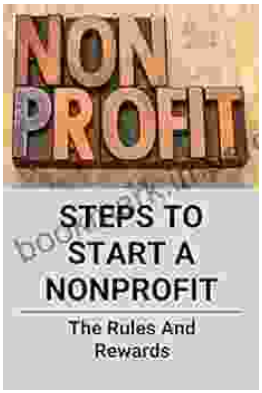

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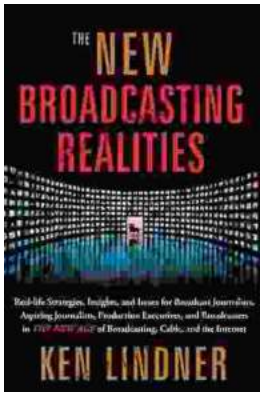

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