



Mathematical Modeling of Biological Systems, Volume II: Epidemiology, Evolution and Ecology, Immunology, Neural Systems and the Brain, and Innovative ... in Science, Engineering and Technology)

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Volume II of this two-volume, interdisciplinary work is a unified presentation of a broad range of state-of-the-art topics in the rapidly growing field of mathematical modeling in the biological sciences. Highlighted throughout are mathematical and computational approaches to examine central problems in the life sciences, ranging from the organization principles of individual cells to the dynamics of large populations. The chapters are thematically organized into the following main areas: epidemiology, evolution and ecology, immunology, neural systems and the brain, and innovative mathematical methods and education.

The work will be an excellent reference text for a broad audience of researchers, practitioners, and advanced students in this rapidly growing field at the intersection of applied mathematics, experimental biology and medicine, computational biology, biochemistry, computer science, and physics.

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Editorial Review

From the Back Cover

This two-volume, interdisciplinary work is a unified presentation of a broad range of state-of-the-art topics in the rapidly growing field of mathematical modeling in the biological sciences. Highlighted throughout both works are mathematical and computational approaches to examine central problems in the life sciences, ranging from the organizational principles of individual cells to the dynamics of large populations.

Volume I covers a number of areas, including:

- * Cellular Biophysics
- * Regulatory Networks
- * Developmental Biology
- * Biomedical Applications
- * Data Analysis and Model Validation

Volume II examines a diverse range of subjects, including:

- * Epidemiology
- * Evolution and Ecology
- * Immunology
- * Neural Systems and the Brain
- * Innovative Mathematical Methods and Education

Both volumes will be excellent reference texts for a broad audience of researchers, practitioners, and advanced students in this rapidly growing field at the intersection of applied mathematics, experimental biology and medicine, computational biology, biochemistry, computer science, and physics.

Users Review

From reader reviews:

Steven Slaughter:

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Theo Garcia:

The reason why? Because this Mathematical Modeling of Biological Systems, Volume II: Epidemiology, Evolution and Ecology, Immunology, Neural Systems and the Brain, and Innovative ... in Science, Engineering and Technology) is an unordinary book that the inside of the book waiting for you to snap the idea but latter it will jolt you with the secret this inside. Reading this book beside it was fantastic author who else write the book in such remarkable way makes the content inside easier to understand, entertaining means but still convey the meaning totally. So , it is good for you because of not hesitating having this any more or you going to regret it. This unique book will give you a lot of advantages than the other book possess such as help improving your talent and your critical thinking means. So , still want to delay having that book? If I have been you I will go to the book store hurriedly.

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