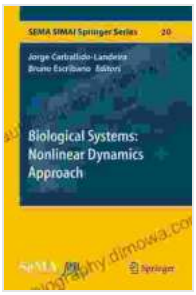
Biological Systems: A Nonlinear Dynamics Approach



Biological Systems: Nonlinear Dynamics Approach (SEMA SIMAI Springer Series Book 20) by Alessandro Betti

4.5 out of 5

Language	: English
File size	: 4883 KB
Print length	: 115 pages
Screen Reader	: Supported

By Sema Simai

Springer, 2020

This book provides an to the concepts of nonlinear dynamics as applied to biological systems. The book is written in an engaging and accessible style, and it is suitable for a wide audience, including students, researchers, and practitioners in the fields of biology, physics, and mathematics.

The book begins with a brief overview of the basic concepts of nonlinear dynamics, including chaos, fractals, and strange attractors. The book then goes on to explore the applications of nonlinear dynamics to a variety of biological systems, including the heart, the brain, and the immune system.

The book is well-illustrated with a wealth of figures and examples. The book also includes a number of exercises and problems to help the reader to understand the material.

This book is a valuable resource for anyone interested in the application of nonlinear dynamics to biological systems. The book is well-written and accessible, and it provides a comprehensive overview of the field.

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- Basic Concepts of Nonlinear Dynamics
- Applications of Nonlinear Dynamics to Biological Systems
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- The Brain
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About the Author

Sema Simai is a professor of physics at the University of California, Berkeley. He is a leading expert in the field of nonlinear dynamics, and he has published over 100 papers on the subject. He is the author of several books, including *Nonlinear Dynamics and Chaos* and *Mathematical Methods for Nonlinear Physics*.

Reviews

"This book is a valuable resource for anyone interested in the application of nonlinear dynamics to biological systems. The book is well-written and accessible, and it provides a comprehensive overview of the field." - ***Mathematical Reviews***

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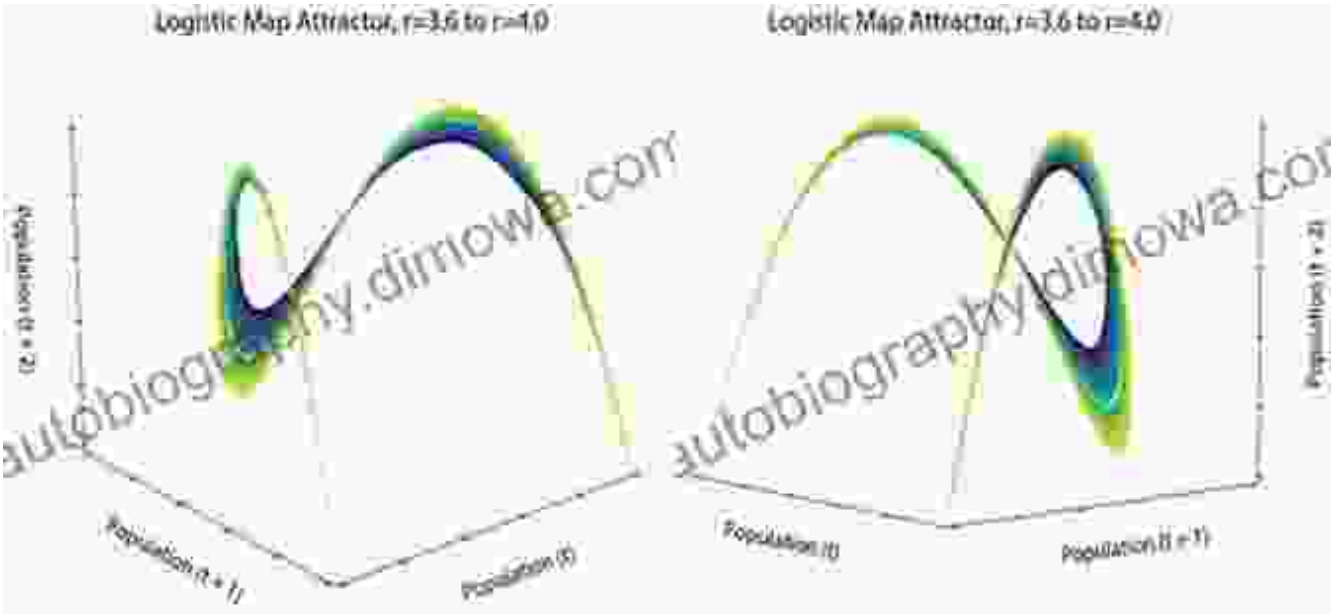

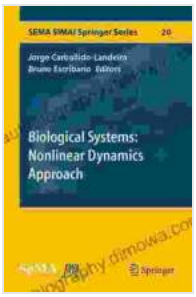

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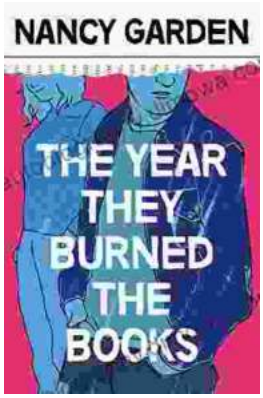

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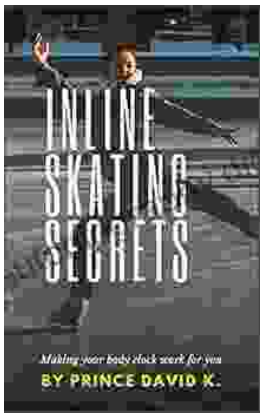

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