

Springer

1st
edition

2014, XIV, 346 p.

Printed book

Softcover

Printed book

Softcover

ISBN 978-3-319-03025-8

\$ 84,99

Available

Discount group

Professional Books (2)

Product category

Graduate/advanced undergraduate textbook

Series

La Matematica per il 3+2

Mathematics : Mathematical and Computational Biology

Iannelli, Mimmo, Pugliese, Andrea

An Introduction to Mathematical Population Dynamics

Along the trail of Volterra and Lotka

- Extended overview of applications of Mathematics to Biology
- Attention to mathematical rigour in applied and empirical context
- Detailed construction of models
- A collection of problems designed to approach more advanced questions

This book is an introduction to mathematical biology for students with no experience in biology, but who have some mathematical background. The work is focused on population dynamics and ecology, following a tradition that goes back to Lotka and Volterra, and includes a part devoted to the spread of infectious diseases, a field where mathematical modeling is extremely popular. These themes are used as the area where to understand different types of mathematical modeling and the possible meaning of qualitative agreement of modeling with data. The book also includes a collection of problems designed to approach more advanced questions. This material has been used in the courses at the University of Trento, directed at students in their fourth year of studies in Mathematics. It can also be used as a reference as it provides up-to-date developments in several areas.

Order online at springer.com/booksellers

Springer Nature Customer Service Center LLC

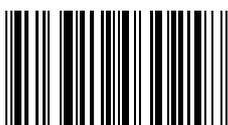
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-319-03025-8 / BIC: PDE / SPRINGER NATURE: SCM31000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**