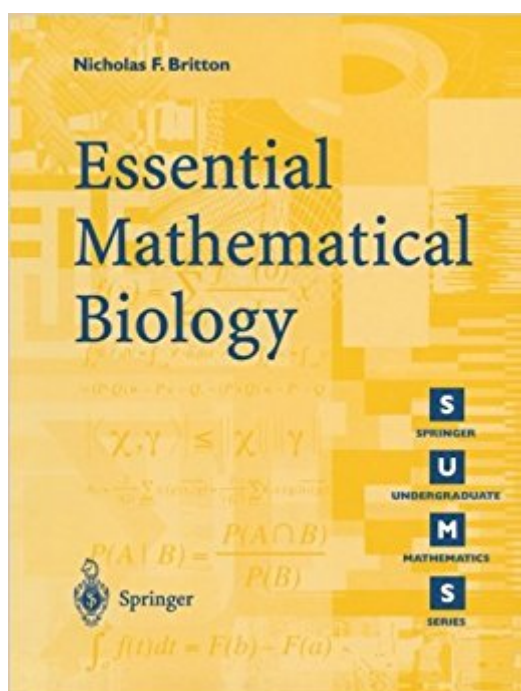


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# Essential Mathematical Biology (Springer Undergraduate Mathematics Series)



## Synopsis

This self-contained introduction to the fast-growing field of Mathematical Biology is written for students with a mathematical background. It sets the subject in a historical context and guides the reader towards questions of current research interest. A broad range of topics is covered including: Population dynamics, Infectious diseases, Population genetics and evolution, Dispersal, Molecular and cellular biology, Pattern formation, and Cancer modelling. Particular attention is paid to situations where the simple assumptions of homogeneity made in early models break down and the process of mathematical modelling is seen in action.

## Book Information

File Size: 5327 KB

Print Length: 370 pages

Publisher: Springer; 1st ed. 2003. Corr. 2nd printing edition (December 16, 2005)

Publication Date: December 16, 2005

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00FQ0CZ8E

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,031,076 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #62

in Kindle Store > Science & Math > Mathematics > Applied > Biomathematics #1504 in Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Applied #1540 in Kindle Store > Kindle eBooks > Nonfiction > Science > Biological Sciences > Biology

## Customer Reviews

Interesting book. Pedagogical.

This book introduces a variety of essential concepts and fundamental knowledge in the mathematical biology, such as SIR model, prey-predator model and Turing Instability. Thus, some students who are focusing on mathematics, ecology and even biochemistry, tend to find sparks in this book. On the other hand, the basic mathematical techniques provided in the appendixes may

daunt readers with less fluent ability of mathematics, especially in the differential equation.

I sent a sample of the Kindle version to my PC, where I read kindle books, and the readability was poor. The figures and formulas are very hard to read ... fuzzy, in my opinion.

In a world in which the precision of the knowledge is fundamental the alive beings' description and their relationships raise the necessary being mathematically. However a lack of titles that you/they can take this Mathematics to the professionals of the biological field exists. The title of this book summarizes in exemplary way that he intends and it gets. Fundamental reading for all those that they are impassioned by the life, but they don't lose common sense in you understand her.

The book came in very good shape. But it is not as useful as I thought.

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