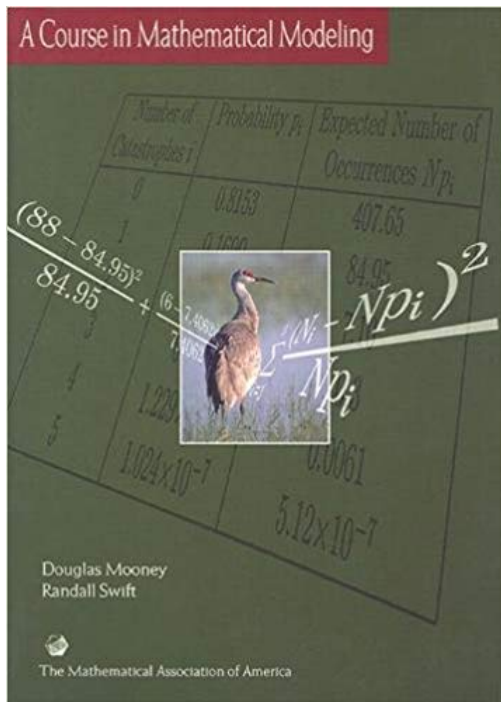


# A Course in Mathematical Modeling (Mathematical Association of America Textbooks) by Randall Swift, Douglas D. Mooney



## DOWNLOAD LINKS (Clickable)



**ISBN:** 088385712X

**ISBN13:** 978-0883857120

**Author:** Randall Swift, Douglas D. Mooney

**Book title:** A Course in Mathematical Modeling  
(Mathematical Association of America Textbooks)

**Pages:** 448

**Publisher:** The Mathematical Association of America; 1  
edition (December 31, 1999)

**Language:** English

**Category:** Mathematics

**Size PDF version:** 1983 kb

**Size ePUB version:** 1531 kb

**Size FB2 version:** 1443 kb

**Other formats:** mbr txt azw lrf

The emphasis of this book lies on the teaching of mathematical modeling rather than simply presenting models. To this end the book starts with the simple discrete exponential growth model as a building block, and successively refines it. This involves adding variable growth rates, multiple variables, fitting growth rates to data, including random elements, testing exactness of fit, using computer simulations and moving to a continuous setting. No advanced knowledge is assumed of the reader, making this book suitable for elementary modeling courses. The book can also be used to supplement courses in linear algebra, differential equations, probability theory and statistics.



## Reviews of the A Course in Mathematical Modeling

## **(Mathematical Association of America Textbooks) by Randall Swift, Douglas D. Mooney**

Zamo

Clear explanations. Models are from biology. Does not elaborate on the math and solving the differential equations, but a good overview.

Eyalanev

Incredibly poorly written book. This is NOT a general introduction to M&S. A more appropriate title for this book would be "A Course in Biological Modeling". If you are looking for an introduction to numerous biological modeling systems then this is your book. If you want a book that overviews the wonderfully complex world of modeling then look elsewhere. (I'm still looking - any help out there). Point is that modeling is much more than understanding birth and death rates of Sand Hill Cranes. Modeling encompasses all fields of Engineering and Physics of which this book hardly mentions. (As you may detect I am particularly annoyed about the misleading title of this book. )

Also, take the authors math expectation in the forward seriously. Make sure you math skills are current before tackling this book. There is a lot of assumption and little equation development. If your skills are rusty you'll find yourself frequently bewildered by how they got from A to B.

I am completing a class on M&S using this book and I can honestly say that I do not know of one student in a class of 25 that is happy with this text.

Original

Great conditions the book looks and feels brand new! No marking or wear and tear. love it !!

kinder

Good.

Kashicage

Came in good condition

## **Related PDF to A Course in Mathematical Modeling (Mathematical Association of America Textbooks) by Randall Swift, Douglas D. Mooney**

[Mathematical Models of Crop Growth and Yield \(Books in Soils, Plants, and the Environment\) by Richard V. Scholtz III, Allen R. Overman](#)

[An Introduction to Mathematical Modeling \(Dover Books on Computer Science\) by Edward A. Bender](#)

[Numerical Analysis and Applied Mathematics ICNAAM 2011.: International Conference of Numerical Analysis and Applied Mathematics \(Part One; Part Two; ... / Mathematical and Statistical Physics\) by Theodore E. Simos, George Psihoyios, Ch. Tsitouras, Zacharias Anastassi](#)

[Elementary Mathematical Modeling: Functions and Graphs by Mary Ellen Davis](#)

[Calculated Bets: Computers, Gambling, and Mathematical Modeling to Win \(Outlooks\) by Steven Skiena](#)

[Mathematical Statistics by Peter J. Bickel](#)

[Stochastic Modeling and Analysis: A Computational Approach \(Wiley series in probability and mathematical statistics\) by Henk C. Tijms](#)

[Gender-structured Population Modeling: Mathematical Methods, Numerics, and Simulations \(Frontiers in Applied Mathematics\) by M. Ianelli, M. Martcheva, F.A. Milner](#)