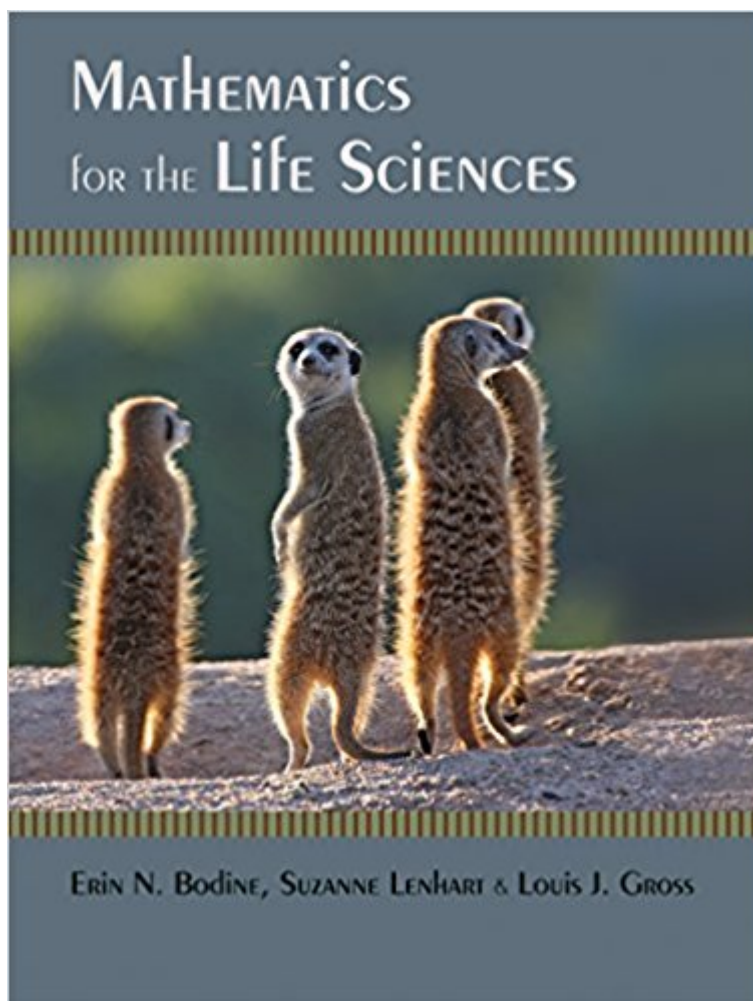


The book was found

# Mathematics For The Life Sciences



## Synopsis

The life sciences deal with a vast array of problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and theory while also presenting the computational tools needed to address problems not readily investigated using mathematics alone. Proven in the classroom and requiring only a background in high school math, *Mathematics for the Life Sciences* doesn't just focus on calculus as do most other textbooks on the subject. It covers deterministic methods and those that incorporate uncertainty, problems in discrete and continuous time, probability, graphing and data analysis, matrix modeling, difference equations, differential equations, and much more. The book uses MATLAB throughout, explaining how to use it, write code, and connect models to data in examples chosen from across the life sciences. Provides undergraduate life science students with a succinct overview of major mathematical concepts that are essential for modern biology. Covers all the major quantitative concepts that national reports have identified as the ideal components of an entry-level course for life science students. Provides good background for the MCAT, which now includes data-based and statistical reasoning. Explicitly links data and math modeling. Includes end-of-chapter homework problems, end-of-unit student projects, and select answers to homework problems. Uses MATLAB throughout, and MATLAB m-files with an R supplement are available online. Prepares students to read with comprehension the growing quantitative literature across the life sciences. A solutions manual for professors and an illustration package is available.

## Book Information

File Size: 41380 KB

Print Length: 640 pages

Publisher: Princeton University Press (August 17, 2014)

Publication Date: August 17, 2014

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00KAJJBT2

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Screen Reader: Supported

Enhanced Typesetting: Enabled

Best Sellers Rank: #54,504 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #8

in Kindle Store > Kindle eBooks > Nonfiction > Science > Biological Sciences > Biotechnology

#39 in Kindle Store > Engineering & Transportation > Engineering > Bioengineering > Biotechnology

#48 in Kindle Store > Kindle eBooks > Nonfiction > Science > Biological Sciences > Biology

[Download to continue reading...](#)

College Mathematics for Business, Economics, Life Sciences, and Social Sciences (13th Edition)

Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences (13th Edition)

College Mathematics for Business, Economics, Life Sciences & Social Sciences (11th Edition) Finite

Mathematics for Business, Economics, Life Sciences and Social Sciences (12th Edition) (Barnett)

Finite Mathematics for Business, Economics, Life Sciences and Social Sciences Plus NEW

MyMathLab with Pearson eText -- Access Card Package (13th Edition) Finite Mathematics for

Business, Economics, Life Sciences and Social Sciences, 11th Edition Finite Mathematics for

Business, Economics, Life Sciences and Social Sciences Student's Solutions Manual for Finite

Mathematics for Business, Economics, Life Sciences and Social Sciences Finite Mathematics for

Business, Economics, Life Sciences and Social Sciences, Books a la Carte Plus MyMathLab with

Pearson eText -- Access Card Package (13th Edition) Finite Mathematics for Business, Economics,

Life Sciences and Social Sciences, Books a la Carte Edition (13th Edition) Student Solutions

Manual for Stewart/Day's Calculus for Life Sciences and Biocalculus: Calculus, Probability, and

Statistics for the Life Sciences Emergence of the Theory of Lie Groups: An Essay in the History of

Mathematics 1869-1926 (Sources and Studies in the History of Mathematics and Physical

Sciences) Calculus for Business, Economics, Life Sciences, and Social Sciences (13th Edition)

Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics I: Fractals in Pure

Mathematics (Contemporary Mathematics) Modeling and Simulation in Medicine and the Life

Sciences (Texts in Applied Mathematics) Some Mathematical Questions in Biology: Circadian

Rhythms (Lectures in Mathematics in the Life Sciences, Vol 19) Finite Mathematics for the

Managerial, Life, and Social Sciences, 11th Edition Mathematics for the Life Sciences Applied

Mathematics for the Managerial, Life, and Social Sciences Student Solutions Manual for Tan's Finite

Mathematics for the Managerial, Life, and Social Sciences, 11th

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)