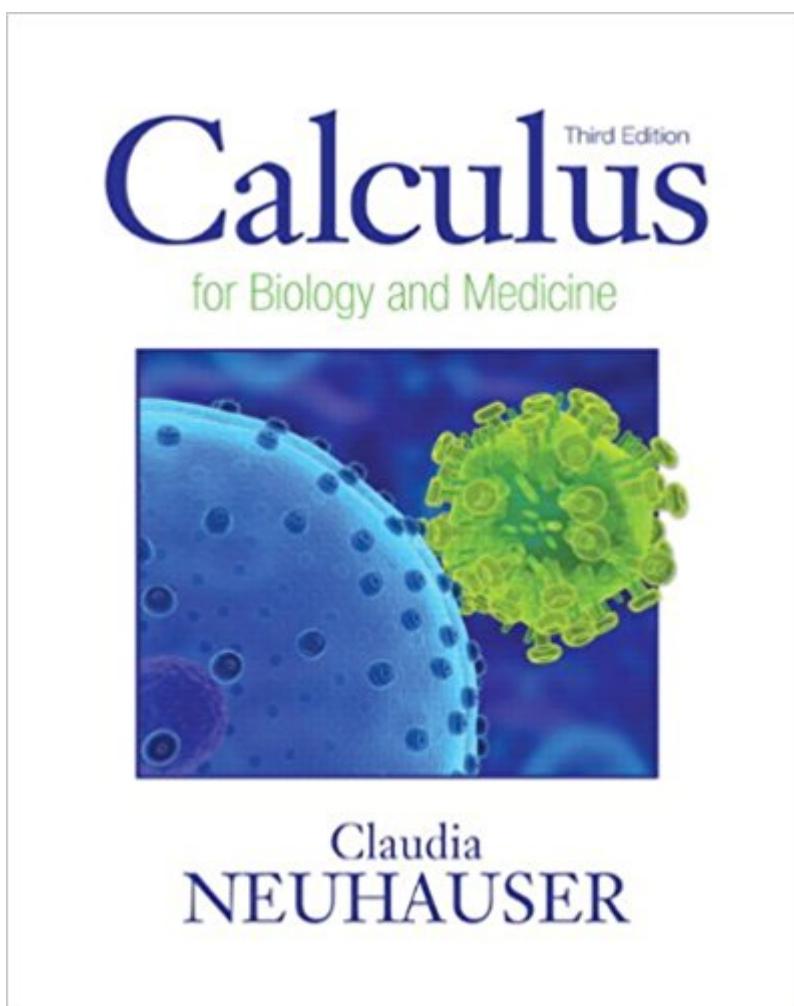


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# Calculus For Biology And Medicine (3rd Edition) (Calculus For Life Sciences Series)



## **Synopsis**

Calculus for Biology and Medicine, Third Edition, addresses the needs of readers in the biological sciences by showing them how to use calculus to analyze natural phenomena "without compromising the rigorous presentation of the mathematics. While the table of contents aligns well with a traditional calculus text, all the concepts are presented through biological and medical applications. The text provides readers with the knowledge and skills necessary to analyze and interpret mathematical models of a diverse array of phenomena in the living world. This book is suitable for a wide audience, as all examples were chosen so that no formal training in biology is needed.

## **Book Information**

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## **Customer Reviews**

Calculus for Biology and Medicine, Third Edition, addresses the needs of readers in the biological sciences by showing them how to use calculus to analyze natural phenomena-without compromising the rigorous presentation of the mathematics. While the table of contents aligns well with a traditional calculus text, all the concepts are presented through biological and medical applications. The text provides readers with the knowledge and skills necessary to analyze and interpret mathematical models of a diverse array of phenomena in the living world. This book is suitable for a wide audience, as all examples were chosen so that no formal training in biology is needed.

Claudia Neuhauser is Vice Chancellor for Academic Affairs and Director of the Center for Learning Innovation at the University of Minnesota Rochester (UMR). She is a Distinguished McKnight University Professor, Howard Hughes Medical Institute Professor, and Morse-Alumni Distinguished Teaching Professor. She received her diploma in Mathematics from the Universität Heidelberg (Germany), and a PhD in Mathematics from Cornell University. Before joining UMR in July 2008, she was Professor and Head in the Department of Ecology, Evolution and Behavior at the University of Minnesotaâ "Twin Cities, and a faculty member in mathematics departments at the University of Southern California, University of Wisconsinâ "Madison, University of Minnesota, and University of Californiaâ "Davis. Dr. Neuhauserâ "Ms research is at the interface of ecology and evolution. She investigates effects of spatial structure on community dynamics, in particular, the effect of competition on the spatial structure of competitors and the effect of symbionts on the spatial distribution of their hosts. In addition, her research in population genetics has resulted in the development of statistical tools for random samples of genes. In her role as Director of the Center for Learning Innovation at the University of Minnesota Rochester, Dr. Neuhauser is responsible for the development of the Bachelor of Science in Health Sciences. The Center promotes a learner-centered, concept-based learning environment in which ongoing assessment guides and monitors student learning and is the basis for data-driven research on learning. Dr. Neuhauserâ "Ms interest in furthering the quantitative training of biology undergraduate students has resulted in a textbook on Calculus for Biology and Medicine and a web page Numb3r5 Count! (<http://bioquest.org/numberscount/>). In her spare time, sheâ "s enjoys riding her bike, working out in the gym, and reading history and philosophy.

This is a terrible textbook which I believe has not been proofread and/or edited at all before being pushed for publication. I am taking a class that deals only with one chapter in this book, Probability and Statistics and I have found numerous errors, mathematical inaccuracies, and formatting anomalies. The answers in the back of the book are inconsistent with the correct answers, the answers in the supplementary solutions manual, are also inconsistent with the correct answers, and contain many grammatical and mathematical typos. In one such instance during the exercise problems after a section, the numbering jumps from 48 to 50, leaving no mention of question 49. Instead of correcting this error, the solutions in the back of the book begin to refer to problem 50 as 49, resulting in every problem thereafter being inaccurate. For the most part, the example problems in the section do not correlate to the more difficult questions in the textbook even slightly, with one

question referring to a Bernstein inequality, a theorem which had yet to be even mentioned in the chapter. Inspection of the index reveals that the ONLY time this theorem is referenced to in the book is within the question asking about it itself. All in all, a terribly written textbook with little to no effort put into the mathematical theory. At the hefty price of over \$100, I am not satisfied and will not be taking any more classes that involve this textbook and author ever again.

excellent book for the topic. good book quality received, meeting description by the seller.

Good reference

Very quick shipping. Item as described.

Single most useless, unhelpful textbook I have ever used. Not to mention it came with the binding ripped completely in half.

This book is horribly unclear and should not be used in University curriculum. I learned everything for this class on Khan Academy.

Not a good book. Examples are not helpful and book is not laid out well. Wish my school used a better calc book.

The book was very clean and neat it was above the expectations which i thought before buying it .I would recommend it if you are looking for that price.

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