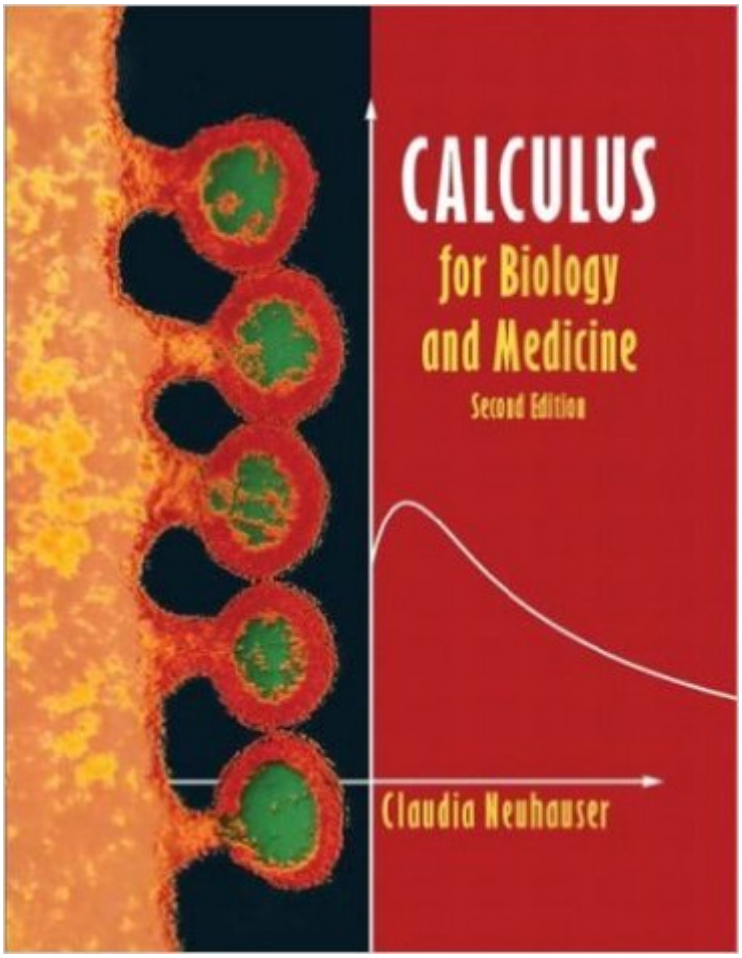
Calculus For Biology And Medicine (2nd Edition)



Synopsis

This volume teaches calculus in the biology context without compromising the level of regular calculus. The material is organized in the standard way and explains how the different concepts are logically related. Each new concept is typically introduced with a biological example; the concept is then developed without the biological context and then the concept is tied into additional biological examples. This allows readers to first see why a certain concept is important, then lets them focus on how to use the concepts without getting distracted by applications, and then, once readers feel more comfortable with the concepts, it revisits the biological applications to make sure that they can apply the concepts. The book features exceptionally detailed, step-by-step, worked-out examples and a variety of problems, including an unusually large number of word problems. The volume begins with a preview and review and moves into discrete time models, sequences, and difference equations, limits and continuity, differentiation, applications of differentiation, integration techniques and computational methods, differential equations, linear algebra and analytic geometry, multivariable calculus, systems of differential equations and probability and statistics. For faculty and postdocs in biology departments.

Book Information

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Customer Reviews

This book is frustrating. Here is why:- answers in the back of the book often conflict with answers given in the solutions manual- worked examples are often vague and don’t apply to a considerable number of practice problems in the text- explanations of proofs are rarely straightforwardThere is no

way I could adequately teach myself calculus out of this book, my professor even deemed it as poorly written. If you must use this book, make sure you pay attention in class, because you surely can't reference the text for constructive help.

Like a few people here have said already, it's a book that is required for many calculus classes offered at UCLA. Sadly, this book, while intended to be geared towards Life Science majors, is poorly written and it appears that the writers were very lazy.I first took calculus in High School and we used the Stewart 5th edition. That book was great and I know a few classes at UCLA (mostly the 30 series) uses that book. The 3 series at UCLA however, uses the Neuhauser book instead.1. The Neuhauser book has many questions with incorrect answers in the back of the book.2. Many of the practice questions are exactly the same with simply a number (like a coefficient) changed. This doesn't help you learn, but it reminds me of elementary school.3. While it may not be applicable to this review, it is worth noting that many of the problems in the solution book are a) also wrong or b) not worked out completely or at all. This means that many times the answer in the solutions manual was same work (aka only the answer) in the back of the book. Regardless of how intuitive the math may be - I believe that the role of the solution manual is to unambiguously work all problems out in their entirety.Since all the pages were numbered correctly and isn't the first edition (I can't imagine what that was like -- I apologize for my cynicism.) I will give it two stars, but it is hardly deserving.Because I felt that this book was so inadequate, I also bought a used version of the Stewart Calculus book for reference. I suggest you do, too; it's a great book and may just help you actually understand the material!

Horrible book. Wonderful professor who walked through hell just to get us through the course. Don't bother buying the book it isn't going to help and will most likely get you confused. Thank the lord for my professor.

I got a C in calculus because the professor barely spoke english and didn't know how to teach. You would think for $50,000 a year per student the school would be able to attract someone at least as good as my high school math teacher. Without the book I probably would have failed.

This book is only in its second edition and with a few more revisions it has the potential to be a very nice text. The editors need to clean up the errors in the solutions, revisit the example problems and include more applied problems in the problem section. What I like about this text is the manner in

which the topics are presented to an applied audience. Limits are presented after a nice discussion of sequences giving students a less abstract notion of a difficult concept. I also like how the later chapters work up to solving systems of differential equations which are very useful for modeling biological systems. I agree that the text needs work, however, I don't think it is as bad as others have stated.

I've taken calculus in the past and have had much better books. I currently own this book because my current class requires it, but it is terrible.Why so bad?1) A lot of wrong answers in back of book2) Not enough examples3) Examples given are very brief and unhelpful4) Uses mathematical terms that are not the standard for professors and the mathematics world. Making it difficult to transition from pre-calc5) Teacher hates it too but got stuck with it from prior professorsJust avoid it all together and get a substitute.

Overall, a good and comprehensive book for the calculus student, but not enough biology/medicine-related examples to fully justify the title.

Book, Emergency Medicine) Essential Oils for Dogs: 100 Easy and Safe Essential Oil Recipes to Solve your Dog's Health Problems (Alternative animal medicine, Small mammal Medicine, Aromatherapy, Holistic medicine) Herbal Remedies:The Ultimate Guide to Herbal Healing, Magic, Medicine, Antivirals, Antibiotics,: herbs,Alternative Medicine, Magic, Medicine, Antivirals, ... Oils, Depression Cure, Natural Remedies,) Veterinary Laboratory Medicine, An Issue of Clinics in Laboratory Medicine, 1e (The Clinics: Internal Medicine) The Calculus of Selfishness: (Princeton Series in Theoretical and Computational Biology) Biology Coloring Workbook: An Easier and Better Way to Learn Biology (Coloring Workbooks) Volume 1 - Cell Biology and Genetics (Biology: the Unity & Diversity of Life)