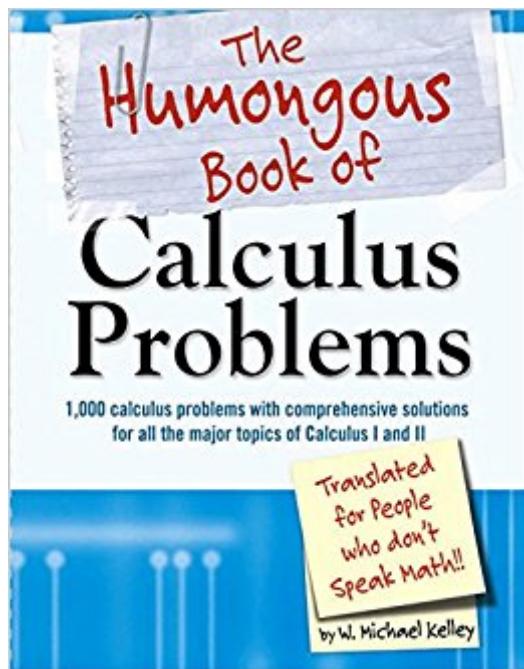


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The Humongous Book Of Calculus Problems



Synopsis

Now students have nothing to fear – Math textbooks can be as baffling as the subject they're teaching. Not anymore. The best-selling author of *The Complete Idiot's Guide to Calculus* has taken what appears to be a typical calculus workbook, chock full of solved calculus problems, and made legible notes in the margins, adding missing steps and simplifying solutions. Finally, everything is made perfectly clear. Students will be prepared to solve those obscure problems that were never discussed in class but always seem to find their way onto exams.

--Includes 1,000 problems with comprehensive solutions --Annotated notes throughout the text clarify what's being asked in each problem and fill in missing steps --Kelley is a former award-winning calculus teacher

Book Information

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Customer Reviews

W. Michael Kelley is a former award-winning calculus teacher and author of *The Complete Idiot's Guide to Calculus*, *The Complete Idiot's Guide to Precalculus*, and *The Complete Idiot's Guide to Algebra*. He is also the founder and editor of calculus-help.com, which helps thousands of students conquer their math anxiety every month.

I am teaching AP Calculus AB for the first time, and still struggling to find the ideal text for my students. The Humongous Book of Calculus Problems comes closest. I really love this book, and use it as a reference all the time for my class. It is fantastic for the detailed pre-Calculus coverage,

and for the complete, very thorough examples of each Calculus topic. The author starts with fairly simple problems, and gradually builds in complexity in manageable, logical increments. Plus, it's written in an entertaining manner, and is incredibly inexpensive. Alas, it is not perfect. Sheesh, what more do I want, you ask? What would make it absolutely perfect would be if: 1) It really was a textbook, that is, if it added now-do-it-yourself exercises for students to practice each concept and 2) It clearly delineated AP Calculus AB vs. BC topics for the teacher who wants to focus on students passing the AP Calculus AB exam. For example, the solids of revolution chapter mixes examples requiring integration by parts with ones that don't require this technique. Solids of revolution by the disc method is an AB topic; integration by parts is BC and therefore a nicety, not a necessity, for my students. Still, the best book I've found for the clarity of its examples.

Every had a professor shows you how to do a Calculus problem in class but skipped some steps because he/she said you should of learn that step in Pre-Calculus but you forgotten it and now you are lost follow the problem on the board? Well this is a good book for that. This book shows you step by steps on how to solve the problem and it easy to follow. It guides you through various problem you might encounter in Calculus! This book pretty much covers the 1st and 2nd Semesters of Calculus. I recommend this book as a supplemental materials if you are currently taking Calculus

I totally love this book! This book has several Calculus 1 and 2 problems worked out and explained each step for the reader to understand. I usually have doubts half way solving the problems, but this book explains each and every small steps. I have Humongous book of Algebra Problems and Humongous book of Geometry Problems from the past and those helped me a lot...so I decided to try this one for Calculus 2. This book is totally worth getting and teaches student right from basics and covers a lot of topics. This book even have Differential Equation (math after Calculus 2) Sections, including Laplace Transformations.

The Humongous Book of Calculus Problems is a great book for anyone interested in learning Calculus for the first time or for people who just want to brush up on what they've learned. It walks you through the subject step by step leaving no stone unturned. It's structured so that you'll continue to build on the preceding chapters in the subsequent chapters. The author, Michael Kelley, adds sidenotes to the formal definitions at the beginning of each chapter in order to clarify any heavy jargon that would seem superfluous to students new to mathematics. Kelley focuses on "the point" of each chapter by explaining why it's important to know and how it'll be used later down

the road. The only problem I could find in the book was that there were a few minor errors in a few of the problems. However, you didn't need to be very adept in math to recognize them. Also, there are tons of problems in the book (hence humongous), so I can understand that there might be a couple mistakes in one or two. Overall, the book covers Calculus in great depth by giving you lots of practice at solving Calculus problems while also helping you understand the key core concepts. If you're wanting to learn Calculus without all the unnecessary rigor and monotonous drab of a formal textbook, I'd definitely recommend buying this book.

In learning math we have two different enemies, one is the material, in it's complexity we struggle to understand the topic. The other enemy which is far more vindictive is the inadequate instructor. So many math instructors are unacceptably lacking the oratorical skills as well as basic teaching skills to be proficient in math. This book works a lot of problems and writes written explanations to go with them, WHICH IS WHAT YOU'D OBVIOUSLY EXPECT IN A TEXTBOOK BUT NEVER GET. It's painfully frustrating when you get these PHD holding arrogant charlatans write these textbooks in nonsensical jargon that only a savant like them could understand. Buy this book if you're taking calc in college and it will help you. For this price, it's not a dangerous investment, seriously.

I purchased this book because I wanted to go back to school and major in Mathematics. In hindsight, I think it was not the wisest decision to take Calculus II (in the summer) when it has been over five years since I studied math. Regardless of my premature leap into the class, I have to say that it helped a little bit for the topics we did covered. I feel that this book would be better for Calculus I and first sections of Calc II but this is based on the Calc II I took at a local junior college. I really appreciate that they worked out a couple of the problems so you can see how to solve the problems. By no means this book is perfect because it doesn't cover some of the more advanced topics of Calculus and some of the problems that they worked out left me more confused than ever. In all, I think it is a great book to have in your collection and I would recommend referring to online tutorials on YouTube (i.e. Khan's Academy and countless others), Schaum's series, and the Calculus Lifesaver book (not the exact title). This is not by any means a substitution to actually paying attention in class, taking good notes, and asking questions if you are unclear about a particular problem. I would highly suggest that you borrow this book from the library before making the leap in purchasing this. I did just that but unfortunately the copied I had in possession had the very pages I needed to understand certain problems. I notified the librarian of the fact.

I buy this book to give to the students that I tutor in Calculus. It has excellent examples and fully detailed steps in how the problems are set-up and solved.

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