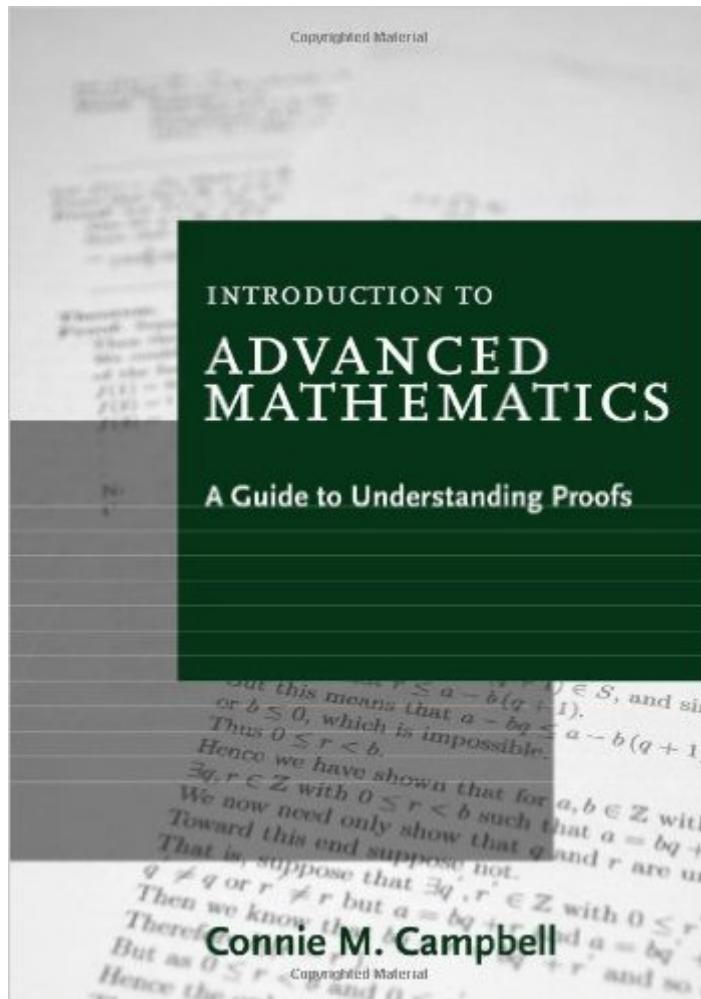


The book was found

# Introduction To Advanced Mathematics: A Guide To Understanding Proofs



## **Synopsis**

This text offers a crucial primer on proofs and the language of mathematics. Brief and to the point, it lays out the fundamental ideas of abstract mathematics and proof techniques that students will need to master for other math courses. Campbell presents these concepts in plain English, with a focus on basic terminology and a conversational tone that draws natural parallels between the language of mathematics and the language students communicate in every day. The discussion highlights how symbols and expressions are the building blocks of statements and arguments, the meanings they convey, and why they are meaningful to mathematicians. In-class activities provide opportunities to practice mathematical reasoning in a live setting, and an ample number of homework exercises are included for self-study. This text is appropriate for a course in Foundations of Advanced Mathematics taken by students who've had a semester of calculus, and is designed to be accessible to students with a wide range of mathematical proficiency. It can also be used as a self-study reference, or as a supplement in other math courses where additional proofs practice is needed.

## **Book Information**

Paperback: 144 pages

Publisher: Cengage Learning; 1 edition (January 1, 2011)

Language: English

ISBN-10: 0547165382

ISBN-13: 978-0547165387

Product Dimensions: 6.3 x 0.3 x 8.9 inches

Shipping Weight: 4 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 starsÂ  See all reviewsÂ  (2 customer reviews)

Best Sellers Rank: #850,004 in Books (See Top 100 in Books) #398 in Books > Science & Math > Mathematics > Pure Mathematics > Logic #871 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Elementary #1898 in Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

## **Customer Reviews**

This is such a rewarding book if you put in the time. I was using it for self study, mainly because I was struggling understanding the proofs in my CS algorithms text - I got frustrated simply skipping over the proofs, and decided to invest some time in the foundations - namely logic and proofs. Prof Campbell has done a fantastic job with this little book, it's opened up a whole new world for me

personally - I don't have that "dread" when I see a proof in my other textbooks - I actually have gained a deeper understanding of subject matter, now that I am armed with these proof skills.

This book is much more clear than others I have read on proof writing. It is fairly small but it is concise and manages to include most of the important information.

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

Introduction to Advanced Mathematics: A Guide to Understanding Proofs  
Introduction to Mathematical Structures and Proofs (Undergraduate Texts in Mathematics)  
Fundamentals of Mathematics: An Introduction to Proofs, Logic, Sets, and Numbers  
Understanding Bergson, Understanding Modernism (Understanding Philosophy, Understanding Modernism)  
The Shorter Catechism with Scripture Proofs  
The Westminster Confession of Faith, with Scripture proofs  
Philosophical Devices: Proofs, Probabilities, Possibilities, and Sets  
The Gödelian Puzzle Book: Puzzles, Paradoxes and Proofs  
Fiqh Al-Imam: Key Proofs in Hanafi Fiqh  
Proofs of a Conspiracy  
The Mathematical Universe: An Alphabetical Journey Through the Great Proofs, Problems, and Personalities  
Proofs that Really Count: The Art of Combinatorial Proof (Dolciani Mathematical Expositions)  
Proofs from THE BOOK  
Problems and Proofs in Real Analysis: Theory of Measure and Integration  
Advanced Mathematics for Engineers with Applications in Stochastic Processes.  
Aliakbar Montazer Haghghi, Jian-Ao Lian, Dimitar P. Mishev (Mathematics Research Developments)  
Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States (Studies in Mathematical Thinking and Learning Series)  
An Introduction to the Theory of Reproducing Kernel Hilbert Spaces (Cambridge Studies in Advanced Mathematics)  
An Introduction to Random Matrices (Cambridge Studies in Advanced Mathematics)  
Mathematics for Finance: An Introduction to Financial Engineering (Springer Undergraduate Mathematics Series)  
A Concise Introduction to Pure Mathematics, Fourth Edition (Chapman Hall/CRC Mathematics)

[Dmca](#)