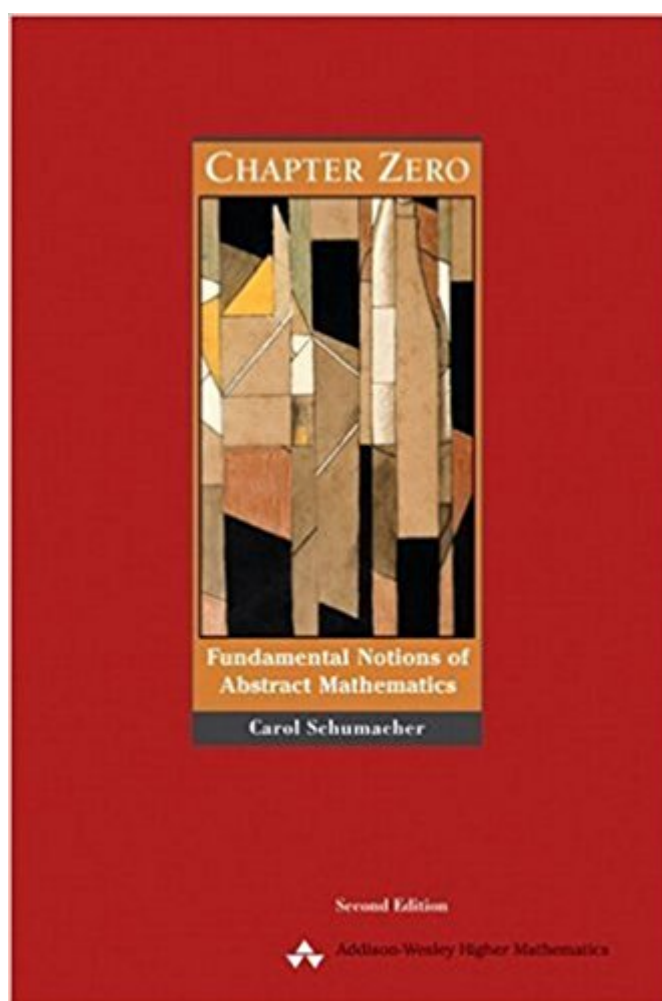


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Chapter Zero: Fundamental Notions Of Abstract Mathematics (2nd Edition)



Synopsis

This book is designed for the sophomore/junior level Introduction to Advanced Mathematics course. Written in a modified R.L. Moore fashion, it offers a unique approach in which readers construct their own understanding. However, while readers are called upon to write their own proofs, they are also encouraged to work in groups. There are few finished proofs contained in the text, but the author offers “proof sketches” and helpful technique tips to help readers as they develop their proof writing skills. This book is most successful in a small, seminar style class. Logic, Sets, Induction, Relations, Functions, Elementary Number Theory, Cardinality, The Real Numbers For all readers interested in abstract mathematics.

Book Information

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Customer Reviews

This book focuses on "flipping the classroom" and expects the student to answer a bunch of challenging questions, without providing much baseline information. This is not a book for those trying to teach themselves the subject. You really need a subject matter expert to guide you through and answer your questions.

Poorly written, the author made so many mistakes that an entire volume of errata has to be downloaded via the internet in order to make sense of this book. The author provides no answers to her own problems in the book and uses the excuse that she wants the students to learn how to do proofs by not providing solutions to any problems.

Bad explanation with zero clarification. The author expects the audience to understand a whole new mathematical concept from one sentence. Not recommended!

This book is all about self discovery, but when you're taking a collegiate you don't care about self discovery. You want to know how to do it the right way and this book lacks in examples.

Book quality is fine but delivered super late

I like the content. The size of the book is handy so it is easy to carry it around and study. However, the binding is loose, and I am worried the pages might start falling off. I have to be careful

Excellent book.

This review will echo the frustrations of those who have tried to use this book in independent study. Currently, I am in a class that has assigned this as the textbook. To preface, this class is "designed" to bring a person in to the beginning stages of proof--including proofs covered before mathematical induction(which is an early topic dealt with by most). Now one would expect this book, being a "guide" to proof, would contain steps in proving mathematical statements. But this is where most frustrations are expressed, because, quite frankly, it has fewer than a few. If a person can extrapolate proofs from almost strictly theorems and definitions, they probably would find this book useless anyway. A prime example of this is Chapter 2 dealing with indexing sets. There may be 3 theorems dealing with indexing, taking unions and intersections of indexing sets and at most 2 definitions on the subject. There is no proof of such statements, but it surely is a problem left for the reader to tackle--The proof of the theorems are required in my class. Now the theorems are quite succinct as are the definitions, but for those learning mathematical proof it would be good to have another person elaborate the ideas. Unfortunately, some people I'm sure have bought this hoping to independently learn. It would be best to supplement this if you already own it, or look elsewhere for a proofs book--I, personally, had to supplement with another. Bottom line: this book could do much better.

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