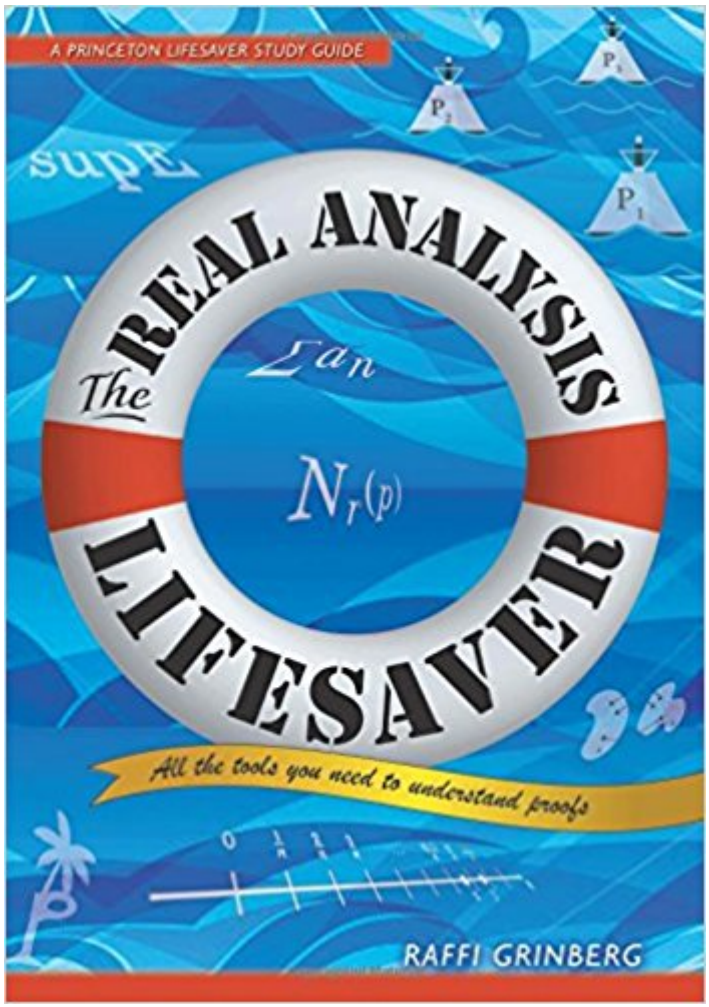
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The Real Analysis Lifesaver: All The Tools You Need To Understand Proofs (Princeton Lifesaver Study Guides)



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Synopsis

Real analysis is difficult. For most students, in addition to learning new material about real numbers, topology, and sequences, they are also learning to read and write rigorous proofs for the first time. The Real Analysis Lifesaver is an innovative guide that helps students through their first real analysis course while giving them the solid foundation they need for further study in proof-based math.Rather than presenting polished proofs with no explanation of how they were devised, The Real Analysis Lifesaver takes a two-step approach, first showing students how to work backwards to solve the crux of the problem, then showing them how to write it up formally. It takes the time to provide plenty of examples as well as guided "fill in the blanks" exercises to solidify understanding.Newcomers to real analysis can feel like they are drowning in new symbols, concepts, and an entirely new way of thinking about math. Inspired by the popular Calculus Lifesaver, this book is refreshingly straightforward and full of clear explanations, pictures, and humor. It is the lifesaver that every drowning student needs.The essential Ã¢â ¬Å“lifesaverÃ¢â ¬Â• companion for any course in real analysisClear, humorous, and easy-to-read styleTeaches students not just what the proofs are, but how to do themÃ¢â ¬â ¢in more than 40 worked-out examplesEvery new definition is accompanied by examples and important clarificationsFeatures more than 20 Ã¢â ¬Å“fill in the blanksÃ¢â ¬Â• exercises to help internalize proof techniquesTried and tested in the classroom

Book Information

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Customer Reviews

"This well-written book prepares readers to take a real analysis course by carefully defining and proving all concepts one needs for this type of course. . . . Throughout the book, the style is incredibly reader friendly, and the author's enthusiasm for the subject is very clear."--Choice

"This book is a great resource that every real analysis student should have. Grinberg writes like a professor would speak to a student during office hours: free of jargon, with a sense of humor, yet still in an authoritative and informative manner."--Oscar E. Fernandez, author of Everyday Calculus: Discovering the Hidden Math All around Us"Grinberg's accessible book gives beginning real analysis students the leg up they need."--Mark McConnell, Princeton University

I simply cannot recommend this book highly enough. The material is presented in a friendly, approachable manner that illustrates the concepts very lucidly with examples and engaging dialogue between the author and reader. One of the main difficulties that math students have with proofs is that proofs are often given as a final draft; the thought process and reasoning that went into tying the assumption(s) and conclusion(s) together are often omitted and this leaves the student perplexed on how to approach proofs. This book gives you a firm grounding in proof analysis as well as propositional and quantificational logic to become proficient in developing your own proofs. I genuinely feel that after using this book, a student will have a much easier time approaching proofs in other math classes. Using this book as a prerequisite to, or concurrently with, a real analysis course will be beneficial to you if you are struggling or just need a little extra intuitive help. Either way, you will not regret purchasing this book.

The book is very well written and very engaging. But it doesn't cover much material. It starts with basic proof methods and theory and stops at sequences. It would almost be better for a introductory general proof class instead of a real analysis class.

There's no discussion of differentiation or the Riemann integral in this book -- staples of any real analysis course. The exposition is not superior to those of any number of introductory analysis texts. My advice would be to stick to texts like Ross, Bartle and Sherbert, Howie, or Zorn. Of these four probably Zorn is the most elementary -- but even it has a chapter on differentiation and a chapter on the Riemann integral.

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