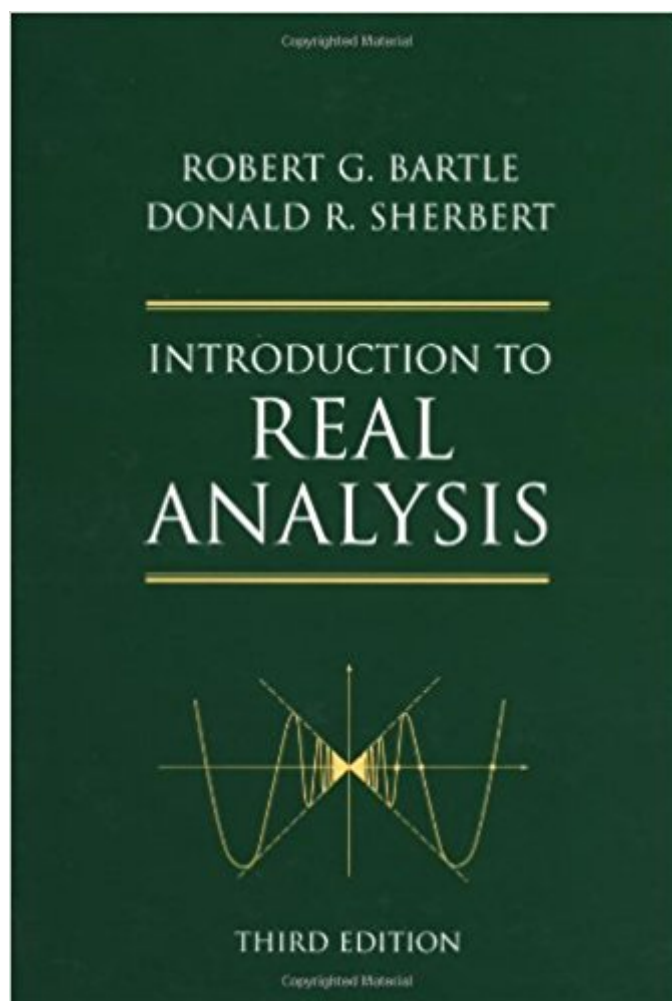


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# Introduction To Real Analysis, 3rd Edition



## Synopsis

In recent years, mathematics has become valuable in many areas, including economics and management science as well as the physical sciences, engineering and computer science. Therefore, this book provides the fundamental concepts and techniques of real analysis for readers in all of these areas. It helps one develop the ability to think deductively, analyze mathematical situations and extend ideas to a new context. Like the first two editions, this edition maintains the same spirit and user-friendly approach with some streamlined arguments, a few new examples, rearranged topics, and a new chapter on the Generalized Riemann Integral.

## Book Information

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## Customer Reviews

I took this undergrad class for real analysis, and the professor proclaimed this to be our textbook. But since im more of a self-studying person, I realized I could carry on with the book independently from class. It's very well written, it is rigorous, problems are good but there is room for making them a bit harder (Im not saying they're simple or useless, but they don't contain a few really hard problems so one can really think). However the book carries on during the first 7 chapters discussing everything in the real number system, and I liked more how the professor explained them and the way he presented those theorems in general metric spaces or topological spaces, I think in such an abstract setting one can focus much better on the concept than on the trivialities in the real numbers system which serve only as a distraction. However the authors of the book find it more appropriate to discuss the real number system and then give a glimpse into metric spaces etc at the

end which I don't quite agree, I think they should be taught parallel. But otherwise fantastic book.

This is a solid book in Analysis, and goes over the typical induction proofs, followed by epsilon delta proofs, and then finally onto continuity and differentiation in the usual sequences. Some of the proofs are original to the author, or at least not commonly used. The sections are compact, and the exercises are largely the right level of difficulty. Moreover, and this is very important in an Analysis book, the examples relate clearly to the problem sets. However, there is nothing about this book that stands out. It is a solid book, so I had to debate whether or not to give it three or four stars, but in the end chose four because of its organization and conciseness. Having said this, though, the book is not particularly deep, sometimes assumes readers will follow difficult proofs when unusual steps are taken from Algebra II to justify them, and lacks real historical background or relations to other branches of math inserted in the text to motivate the student. Also, while diligently restating the proofs, the book does not really help the student learn to compose proofs, and this is the purpose of an Analysis book. It is not a bad book, in fact it is solid to above average for an Analysis book, but just does not particularly stand out as excellent.

What a breath of fresh air after dealing with Pugh's book! The language is clear. The proofs are concise and easy to follow. The illustrations are good without being overwhelming. I cannot say enough good things about this book. Poor math teachers are obsessed with the most general case and introduce it first. A good teacher starts with a specific case, relates it to what the student already knows, and then begins to generalize it slowly, layer by layer until the most general case is achieved. This is how the mind works, this is how mathematics really developed over time, and this is how math should always be taught! Bartle and Sherbert do a outstanding job of this! One word of caution. Don't let real analysis be your first proofing class. Take a proofing class first and if your university doesn't have one, demand one!. Real analysis is not the place to learn propositional logic, quantifiers, truth tables and the like!. Learn that stuff first and do your first proofs in elementary number theory or geometry, then when you have a repertoire of proofing tools and some skill in proofing, then take real analysis. You cannot learn proofing and real analysis at the same time. First learn to proof, then take real analysis! If not you will be miserable and you will take it out on your teacher and text!

I'm really satisfy with this book. Good presentation of the real analysis.

Thorough and detailed, but a bit difficult to follow for self study. I'd highly recommend this book for guided study.

The product is excellent. It is quite explanatory. The exercises have various levels of difficulty. Ideal for those who want to delve in real analysis.

This book was very helpful for me to brush up on undergraduate analysis. The problems, especially later ones, give a fair idea on what you are going to see later in graduate studies.

In spite of Bartle's efforts, the gauge integral has yet to receive full appreciation

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