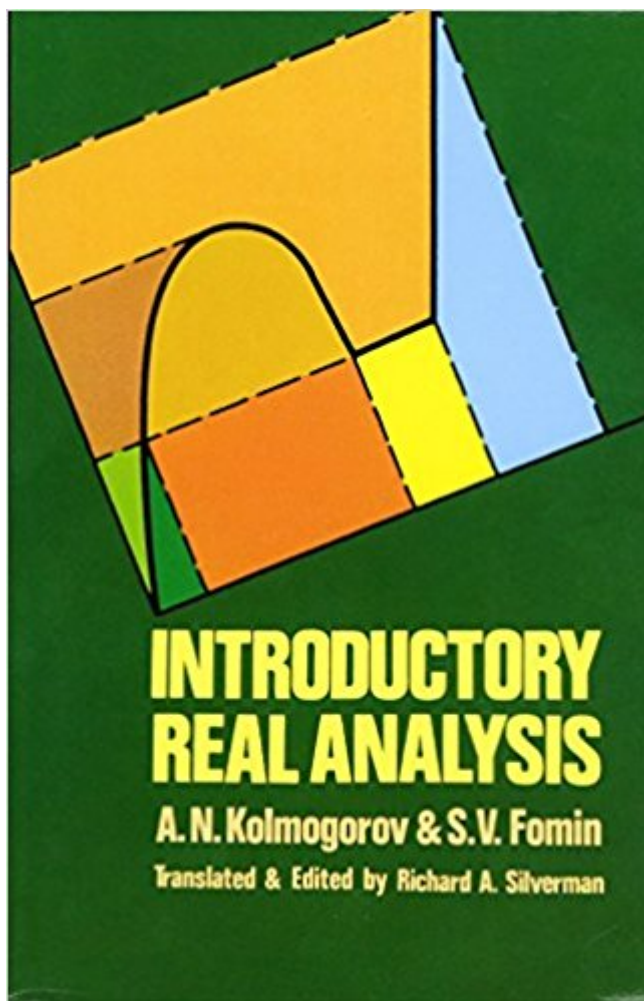The book was found

# Introductory Real Analysis (Dover Books On Mathematics)

## Synopsis

This volume in Richard Silverman's exceptional series of translations of Russian works in the mathematical science is a comprehensive, elementary introduction to real and functional analysis by two faculty members from Moscow University. It is self-contained, evenly paced, eminently readable, and readily accessible to those with adequate preparation in advanced calculus.The first four chapters present basic concepts and introductory principles in set theory, metric spaces, topological spaces, and linear spaces. The next two chapters consider linear functionals and linear operators, with detailed discussions of continuous linear functionals, the conjugate space, the weak topology and weak convergence, generalized functions, basic concepts of linear operators, inverse and adjoint operators, and completely continuous operators. The final four chapters cover measure, integration, differentiation, and more on integration. Special attention is here given to the Lebesque integral, Fubini's theorem, and the Stieltjes integral. Each individual section Ã¢â ¬â • there are 37 in all Ã¢â ¬â • is equipped with a problem set, making a total of some 350 problems, all carefully selected and matched.With these problems and the clear exposition, this book is useful for self-study or for the classroom Ã¢â ¬â • it is basic one-year course in real analysis. Dr. Silverman is a former member of the Institute of Mathematical Sciences of New York University and the Lincoln Library of M.I.T. Along with his translation, he has revised the text with numerous pedagogical and mathematical improvements and restyled the language so that it is even more readable.

## Book Information

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# Customer Reviews

Text: English, Russian (translation)

Russians prove to be key players in advancement of math analysis

I am currently a first year graduate math student. I have had advanced calculus (we used Introduction to Analysis by W. Wade, covered chapters 1-7) and basic topology as an undergrad, and I'm working through Principles of Mathematical Analysis right now for class. On the side, I decided to try to learn some more advanced analysis. I found that my undergraduate courses were good enough to start reading Kolmogorov and Fomin on my own (after all, the preface states that Adv Calc is a prereq for the text). The definitions and theorems are clean and consise, and there are plenty of good examples to help you along with the concepts. At the end of most sections, there are several instructive problems to think about to help you along. Some of the methods and notations are a little dated, but for the price of the text, that can be easily ignored. This is a wonderful introduction and I'd recommend it for anyone who is interested in graduate level mathematics.

I don't really know how to rate this book. The content is great, but the Kindle format is terrible. Most of the equations are low quality, small, images, which makes viewing with a dark background ugly, and scaling impossible (increase font size does not increase equation size).1 star for Kindle5 for book

I didn't like this book at first because it wasn't what I expected. I think the word "introductory" should be removed from the title. It's actually not an introductory book. I would recommend this book for graduate studies. Most real analysis courses at the graduate level focus on the measure theory and integration. However, I appreciate this book more now.

This is a very good intermediate math book. I used it to write my undergraduate monograph and it actually helped a lot (I'm an economics student). However, it is difficult to understand without the help of other books. In fact, if you want to use this book I recommend to get also: "Topology" by Munkres and "The Way of Analysis" by Robert Strichatz. They all make a very useful math kit and if you are thinking in a Ph.D. in economics they can help you a lot if you read them (not all, buy selected chapters) before you start the math review at the begining of the Ph.D. program.

I checked out this text at a local book shop. You need a solid foundation in elementary analysis to get through, but the book is self contained and well written and if you persevere you will learn the topic.

A very pointed text for the first course in real analysis. Definitely not for the underprepared or those looking for a simple survey or curve in grading. Those who embrace what is put forth will be well prepared on 99% of the material required for the first real analysis course in graduate school.

I have spotted some typo's but the text is such that an average math student like myself was actually able to detect them. The text is very well written. The style, the layout and the wording is very well thought out. Probably the best analysis book I've read.

Introductory Real Analysis (Dover Books on Mathematics) Mathematics for Quantum Mechanics: An Introductory Survey of Operators, Eigenvalues, and Linear Vector Spaces (Dover Books on Mathematics) Introductory Complex Analysis (Dover Books on Mathematics) The Real Book of Real Estate: Real Experts. Real Stories. Real Life. Hawaii Real Estate Wholesaling Residential Real Estate Investor & Commercial Real Estate Investing: Learn to Buy Real Estate Finance Hawaii Homes & Find Wholesale Real Estate Houses in Hawaii Introductory Graph Theory (Dover Books on Mathematics) Introductory Discrete Mathematics (Dover Books on Computer Science) The Smart Real Estate Investor: Real Estate Book Bundle 2 Manuscripts Expert Strategies on Real Estate Investing, Starting with Little or No Money, Proven Methods for Investing in Real Estate The Smart Real Estate Investor: Real Estate Book Bundle 3 Manuscripts Expert Strategies on Real Estate Investing, Finding and Generating Leads, Funding, Proven Methods for Investing in Real Estate Real Estate: 25 Best Strategies for Real Estate Investing, Home Buying and Flipping Houses (Real Estate, Real Estate Investing, home buying, flipping houses, ... income, investing, entrepreneurship) Real Estate: 30 Best Strategies to Prosper in Real Estate - Real Estate Investing, Financing & Cash Flow (Real Estate Investing, Flipping Houses, Brokers, Foreclosure) READING ORDER: TAMI HOAG: BOOKS LIST OF THE BITTER SEASON, KOVAC/LISKA BOOKS, HENNESSY BOOKS, QUAID HORSES, DOUCET BOOKS, DEER LAKE BOOKS, ELENA ESTES BOOKS, OAK KNOLL BOOKS BY TAMI HOAG Mathematics and the Imagination (Dover Books on Mathematics) One Hundred Problems in Elementary Mathematics (Dover Books on Mathematics) The Nature and Power of Mathematics (Dover Books on Mathematics) Mathematics for the Nonmathematician (Dover Books on Mathematics) Understanding Infinity: The Mathematics of

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