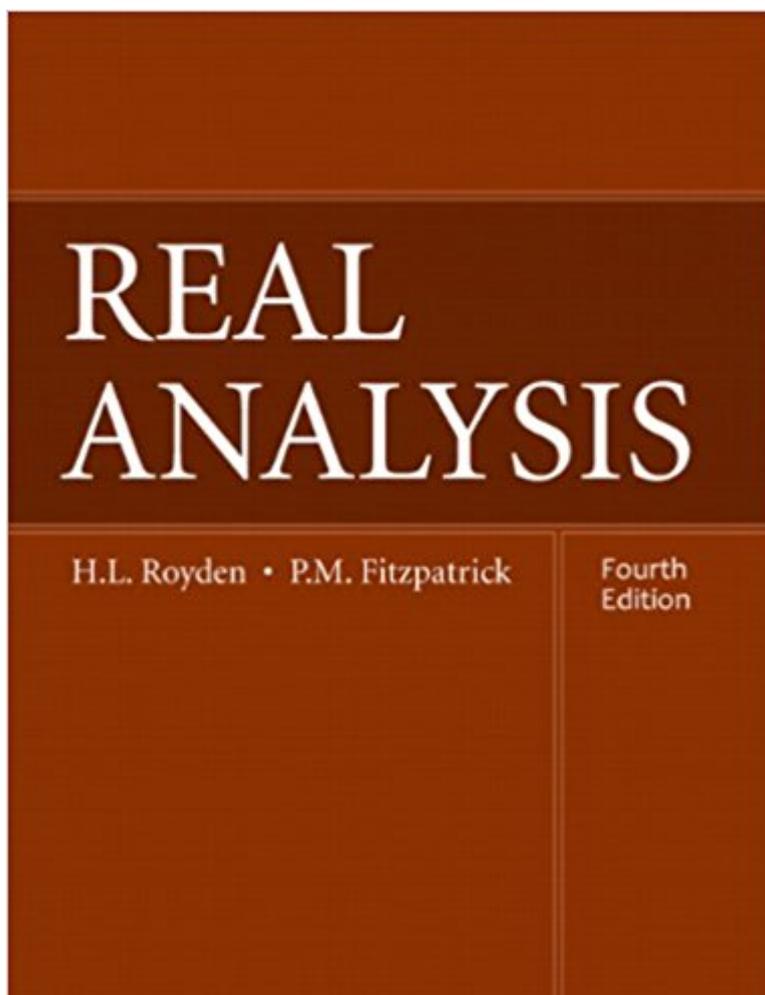The book was found

Real Analysis (4th Edition)

Synopsis

Real Analysis, Fourth Edition, covers the basic material that every reader should know in the classical theory of functions of a real variable, measure and integration theory, and some of the more important and elementary topics in general topology and normed linear space theory. This text assumes a general background in mathematics and familiarity with the fundamental concepts of analysis. Â   Classical theory of functions, including the classical Banach spaces; General topology and the theory of general Banach spaces; Abstract treatment of measure and integration. Â   For all readers interested in real analysis.

Book Information

Hardcover: 544 pages

Publisher: Pearson; 4 edition (January 15, 2010)

Language: English

ISBN-10: 013143747X

ISBN-13: 978-0131437470

Product Dimensions: 7.1 x 1.3 x 9.2 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 3.3 out of 5 starsÂ Â See all reviewsÂ (18 customer reviews)

Best Sellers Rank: #182,064 in Books (See Top 100 in Books)   #25 inÂ Books > Science & Math > Mathematics > Pure Mathematics > Set Theory   #35 inÂ Books > Science & Math > Mathematics > Pure Mathematics > Functional Analysis   #1735 inÂ Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

We're using this text for my real analysis class. We've made it through 8 chapters so far, and I must say that I'm rather disappointed with this book. I can't compare the 4th edition to any of the previous editions, as I haven't read them, but I'm not sure if this really could be called an improvement. It's riddled with errors (the errata, as of September 2011, is 12 pages long, and even it has errors! I've found some of the proofs to be confusing (for example, see his proof of Young's inequality... I find that using the convexity of the exponential is much clearer. Semi-frequently, I find myself digging through Stein and Shakarchi, Kolmogorov and Fomin or Bruckner, Bruckner and Thompson's Real Analysis book to figure out what's going on.Professors: If you're going to require a text that costs this much, make sure it has less errors.Students: It's not just the reading that's flawed! Several exercises have typos, or are even completely misstated! Here's a link to the errata:[...]*Apparently

the link was removed by someone that wasn't me. I suspect that it caused some red flags for to have an external link here. One can easily find it by typing "Royden Errata 4th Edition" in any search engine. 1/14/2012

I recently ordered a copy of this book from . I had tried without success to make sure that they sent me a late printing so that I could avoid the typos. Unfortunately, these efforts failed and the copy they sent me had all of the 19 pages worth of errata still in it. I don't understand why that should be since the errata page says a corrected printing was to be created in 2011 and I was told personally by professor Fitzpatrick that a corrected printing has been published. The margin at the binding side is very narrow so that the book has to be forced all the way open in order to read all of it. Unfortunately, the binding is very flimsy and it is easy to imagine that it won't last long being constantly opened wide like that. I'm going to pass on this book unless I can be assured that these issues have been addressed and resolved.

My Real Analysis class follows this book. However, when I ordered it and got it, I found out that I have a bad printout - when any previously used equations were mentioned, only (??) was in the text, some exercises were missing or numbered differently, and some paragraphs were also missing. Somehow, the book cover was the same as the 4th edition. The seller agreed to take the book back, but it was still inconvenient, and I met other people from my class who had the same problem.

I would give this book 5 star if it were not because of typos. I agree with the other review regarding typos: too many and the errata is 19 pages long. Almost every single page in every chapter has typos. Most typos are easy to fix, but there are some where you have to insert a paragraph to fix it. Lets hope for a fix in the next edition (I would buy it immediately.)There are some good books that are just as good as this one: Stein and Shakachi is better (just my taste), Tao's An introduction to Measure Theory is a good one too if you read it along with Stein and Shakachi since Tao wrote his book based on Stein and Shakachi (not really based on, but in the same approach and he has many awesome comment.)Thats being said, this is a good book to study but unfortunately, many typos keep it from perfect.

Unfortunately, adding Fitpatrick to the authorship of this previously wonderful real analysis text did not benefit anyone--at least in the fourth edition, first printing. There were more errata in this text

than I've ever seen in any other text. It makes you wonder if anyone was checking the text before it was published. I'm hoping later printings improved, but my professor, classmates, and I did not appreciate being beta testers. Unfortunately, because of the state of this text, the professors who loved and used Royden at my graduate school have since switched to Folland for all future real analysis course. It's quite a shame, and I'm not sure Mr. Royden would have been pleased.

I used this book in my second semester analysis class. I think the book does a good job laying out measure theory and Lebesgue integration, and materials about topological spaces can serve as complement reading of Munkres' book (I'm taking topology at the same time). However, there are some typos in the book and some of the questions and examples are wrong.For example, p43, q18 is wrong; p143 q9 is wrong because in Young's inequality there is equality iff $a^p=b^q$, and on the same page the last example is incorrect.

The grammatical errors induced from third to fourth edition are quite irksome. Also, in many proofs, key words and symbols are switched, changing the meaning. But, the third was an outstanding book and the fourth is still my best resource on the subject.

The information on R^1 integration is nice and easy to follow but the number of errors is totally unacceptable(19 pages as of errata). It appears no one proof-read the book.Knowing the number of errors I can't recommended anyone buy this edition.

Real Estate: Learn to Succeed the First Time: Real Estate Basics, Home Buying, Real Estate Investment & House Flipping (Real Estate income, investing, Rental Property) Real Time Systems and Programming Languages: Ada 95, Real-Time Java and Real-Time C/POSIX (3rd Edition) The Best Homemade Kids' Lunches on the Planet: Make Lunches Your Kids Will Love with Over 200 Deliciously Nutritious Lunchbox Ideas - Real Simple, Real Ingredients, Real Quick! Lupus: Real Life, Real Patients, Real Talk Real Analysis (4th Edition) Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) 4th (fourth) Edition by Turton, Richard, Bailie, Richard, Whiting, Wallace B., Shaei [2012] Real Virtual en la estetica y la teoria de las artes/Real Virtual in the Esthetic and the Theory of the Arts (Paidos Estetica / Ethetics) (Spanish Edition) Will Puberty Last My Whole Life?: REAL Answers to REAL Questions from Preteens About Body Changes, Sex, and Other Growing-Up Stuf Real-time Operating Systems (The engineering of real-time embedded systems Book 1) Memory Controllers

for Real-Time Embedded Systems: Predictable and Composable Real-Time Systems: 2 The Real Food Diet Cookbook: Gluten-Free, grain-free and real food recipes for losing weight, feeling great, and transforming your health Florida Real Estate Exam: How To Pass The Real Estate Exam in 7 Days. A Proven Method That Works (Includes Prep Questions with Answers) The Obsessive Compulsive Trap: Real Help for a Real Struggle Investigating Eating Disorders (Anorexia, Bulimia, and Binge Eating): Real Facts for Real Lives (Investigating Diseases) Essential Guide to Real Estate Contracts (Complete Book of Real Estate Contracts) Precalculus: Real Mathematics, Real People Real Computing Made Real: Preventing Errors in Scientific and Engineering Calculations (Dover Books on Computer Science) Krav Maga: Real World Solutions to Real World Violence The Mystery on the Iditarod Trail (Real Kids, Real Places) (Teacher's Guide) (Carole Marsh Mysteries (Paperback)) Real Analysis : Theory of Measure and Integration (3rd Edition)