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Vector Calculus, Linear Algebra, And Differential Forms

A Unified Approach

John Hamal Hubbard Barbara Burke Hubbard
Cornell University



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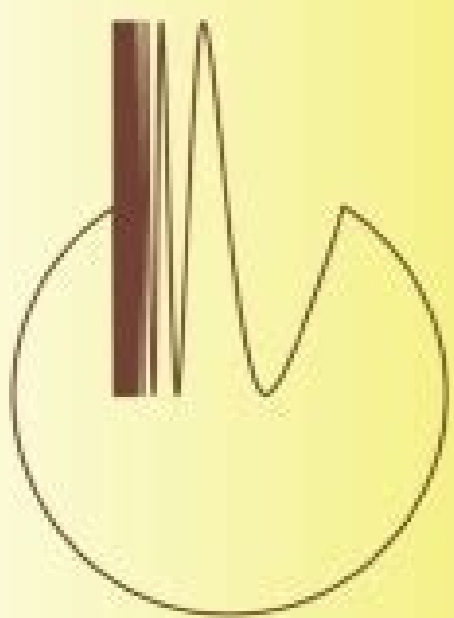
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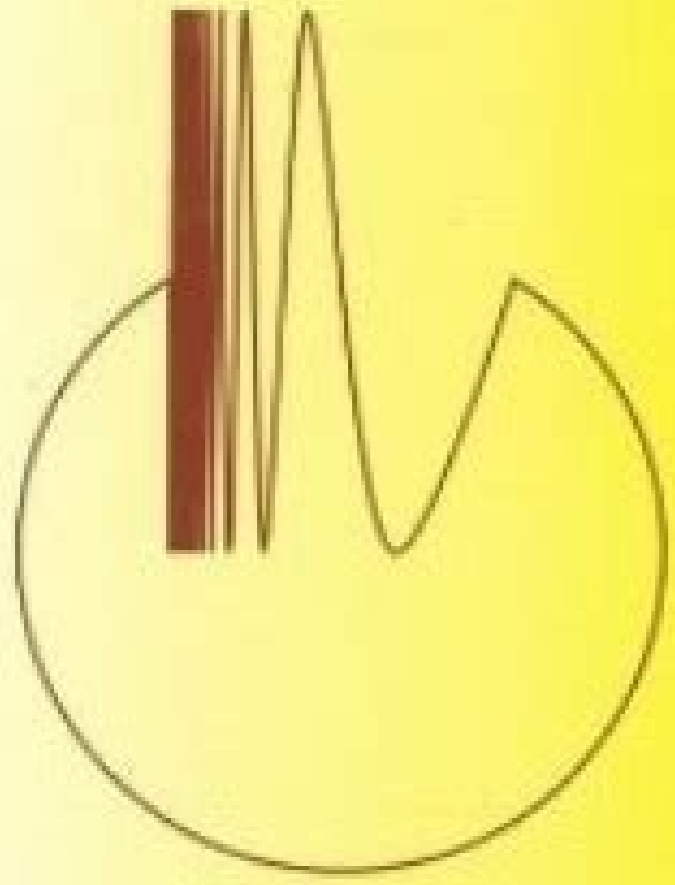
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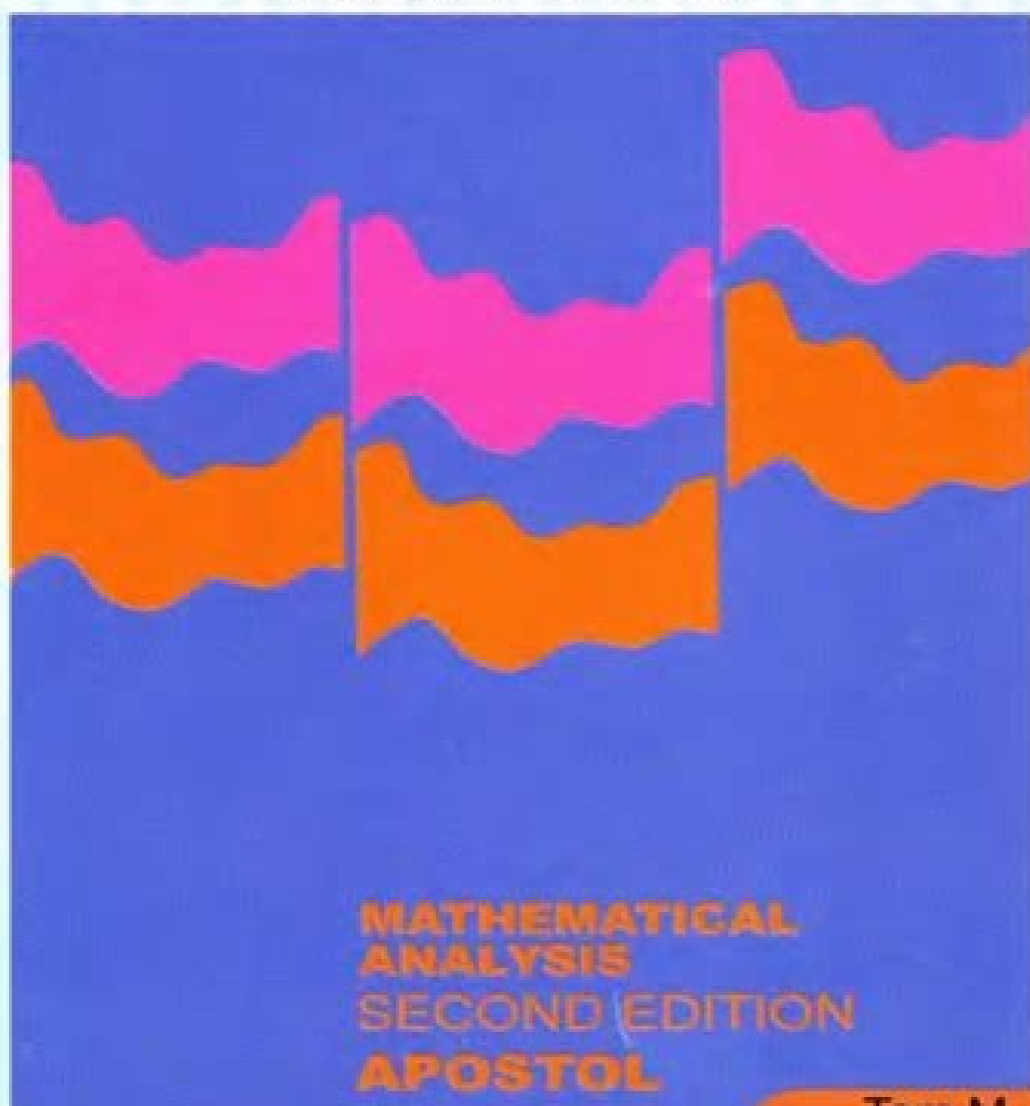


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i would argue that actually such reviews are as necessary as reviews of already-shortlisted novels and essays, given the vast amounts of mind-numbingly jargon-filled passive voice crowding today's market of anything even slightly "academic" blocking non-phd students from fully appreciating the beauty of often esoterically written concepts.reading this felt like having a very strange, philosophical yet somehow technical conversation with a witty yes, this is a literary review of a math textbook. But it's a very good start to understanding Topology even though Maybe it does not teach you topology directly, truly a rare gift. 69, 2003) "Pugh's book is not a typical book. 1003 (3), 2003) < "In this new introduction to undergraduate real analysis, the author takes a different approach by stressing the importance of pictures in mathematics and hard problems. I can recommend this book to serious undergraduates who want to get into real analysis." (Gerry Leversha, The Mathematical Gazette, Vol. Apr 11, 2016 Ethan rated it it was amazing This is a terrific book's. Many problems are challenging, but then again, don't you love it when you figure one of those out?Nevertheless, the book is a great studying source, whether you want to apply the theorems to your problems, or learn the proofs in great length. This is a book for the highly motivated student. While the book can be light on examples, the author always provides enough of them to motivate the mor This is a terrific book. While the book can be light on examples, the author always provides enough of them to motivate the more rigorous definitions and proofs.This books greatest strength is does more than just teaches real analysis—it teaches how to think and solve problems in analysis. i found a 2 dollar mistake: a minor mathematical mistake. Maybe it's better to look at 'Calculus on Manifolds' by Spivak for this topic.I repeat again, the book really cares about how you will learn concepts, it is full of figures, examples, questions. Very good book to read in two semesters for an undergraduate student. Undoubtedly, this is a heavy book. The style is lively and engaging. ...more Jun 30, 2018 Anurag rated it it was amazing One of the very enjoyable books on mathematics I have read. The book can be highly recommended as an introduction to real analysis." (Joachim Naumann, Zentralblatt MATH, Vol. As a mathematics student, I would have loved to have this as a textbook to be taught my first analysis course. El-Helaly, Mathematical Reviews, 2003 e) "The book under review is an introduction to the basics of real analysis. it very successfully (and atypically) manages to convey the look and feel of an engaging classroom lecture while maintaining the highest level of rigor and care. The occasional comments from mathematicians make the text really enjoyable. The topics are simplified and detailed for an undergraduate level study. I would argue that actually such reviews are as necessary as reviews of already-shortlisted novels and essays, given the vast amounts of mind-numbingly jargon-filled passive voice crowding today's market of anything even slightly "academic" blocking non-phd students from fully appreciating the beauty of often esoterically written concepts.reading this felt like having a very strange, philosophical yet somehow technical conversation with a witty close friend. This chapter is well written, But not what we think of the word "Analysis".Second chapter is about Metric Spaces. I think it's the best chapter of this book.Very clear and educational, not theorem. Lemma style, it seriously tries to "teach" you the concepts. This chapter. As the name tells you . The book starts studying Numbers, Actually real numbers and constructs them from rational numbers with Dedekind Cuts, Which we expect to see these parts in a Set theory book or something about Math bases. ...more Jan 30, 2016 afloatpoint rated it really liked it Undoubtedly, this is a heavy book. Rest of the book has more Analytic Topics, Like Derivative, Integral, Function Spaces. It may serve as a great primer for anybody who is interested in real analysis but has shied away from a heavier algebraic treatment. This book is based on the honors version of a course that the author has taught many times, over the last thirty-five years, at the University of California, Berkeley." (L'Enseignement Mathématique, Issue 1-2, 2002) Something went wrong, hard class; honor's version of analysis. I'm lucky to have a wonderful professor who carefully guides us through the material and often explains things from a great, different point of view.If you're one of those students who try to do all problems in the section, good luck! There are over 100 problems in each chapter, not including the UC Berkeley qualifying exam problems (which I think is really cool), half of the class died of headache, half of the rest died of heartache, half of the rest died of loss of self-esteem...eventually we'll all die. To sum up, this undergraduate textbook contains a wealth of information. The exposition is chatty and easygoing, while managing to cover all of the basic ideas carefully and thoroughly. Showing 1-30 Start your review of Real Mathematical Analysis Apr 20, 2007 powei rated it it was amazing prof wrote this book, offered 5 dollars for each mathematical mistake, 1 dollar for a typo. An excellent book in an excellent series. for anyone who is dipping their toes into real analysis for the first time, i highly recommend pugh! his writing style is simply so down-to-earth and endlessly entertaining, despite the abstract nature of the topic discussed. A special feature of the exposition is its emphasis on the explanation of mathematical concepts by figures. The exposition is informal and relaxed, with many helpful asides, examples, and occasional comments from mathematicians. The chapter on metric space theory is absolutely incredible, and the construction of the real numbers in chapter one is really compelling. It is written in a concise, but always clear and well-readable way. The reader is given plenty of visualisations and exercises to understand the concepts ranging from lagrangian multipliers to measure theory. Many problems are challenging, but then again, don't you love it when you figure one of those out? Wait a moment and try again. As a teacher, I would love to use it as lecture notes." (Adhemar Bultheel, Belgian Mathematical Society . Simon Stevin Bulletin, Vol. Feroc, CHOICE, September, 2002) "This book is suited for a two-semester course in real analysis for upper-level undergraduate students who major in mathematics. The exercises are numerous and they vary from straightforward to very challenging. ...more Nov 30, 2015 Saman rated it liked it The book starts studying Numbers, Actually real numbers and constructs them from rational numbers with Dedekind Cuts, Which we expect to see these parts in a Set theory book or something about Math bases. The text is complemented by an excellent index and frequent suggestions for further reading. prof wrote this book. Intuition is stimulated and metaphors are used throughout the book, without compromising rigor. These chapters are more familiar and somehow you can see them as applications of chapter 2.The book is not Rich enough on multivariable part. I should add here that Pugh succeeds in transferring his love and enthusiasm for this material to the reader. Its explanations are crystal clear and concise, and its exercises are really interesting. The author peppers the text with his advice for solving problems or conceptualizing certain concepts, and it really helps the book.Could not recommend this book more. This makes this well-crafted book very appealing as a resource for an honors section, but it also should be in any undergraduate library as a source of ideas and supplementary problems for faculty or as a challenge for strong students. 88 (551), 2004) "This book is a new introduction to undergraduate real analysis.

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