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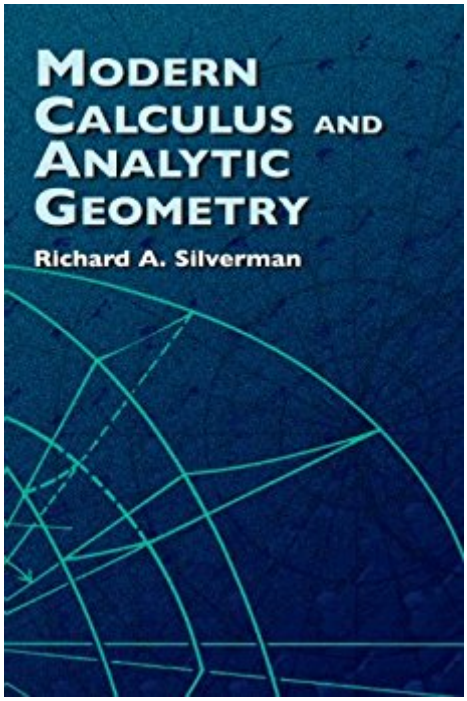
Modern Calculus And Analytic Geometry (Dover Books On Mathematics)



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Synopsis

A self-contained text for an introductory course, this volume places strong emphasis on physical applications. Key elements of differential equations and linear algebra are introduced early and are consistently referenced, all theorems are proved using elementary methods, and numerous worked-out examples appear throughout. The highly readable text approaches calculus from the student's viewpoint and points out potential stumbling blocks before they develop. A collection of more than 1,600 problems ranges from exercise material to exploration of new points of theory â " many of the answers are found at the end of the book; some of them worked out fully so that the entire process can be followed. This well-organized, unified text is copiously illustrated, amply cross-referenced, and fully indexed.

Book Information

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Customer Reviews

I have no idea why this book is so little known. It is a great calculus book - rigorous for a calculus course, but very detailed. I have used this book in a calculus class and, aside from complaints of it being a difficult book, the students learned their calculus.Since the book is old (1960's I believe), it

has no clue about graphing calculators. Thus, the graphing sections are very detailed, but somewhat arduous. However, that's how things were done in those days. Even so, that material could be easily covered in a modern treatment - just have the calculator do all the dirty work - the students get to see how technology has made computations so much more palatable nowadays (but the students could indulge their masochistic side by working all the details).The exposition is extremely detailed and proofs to most (if not all) of the theorems are given. There are many examples in every section, and the author doesn't shy away from difficult examples. Additionally, while there are many standard calculus problems, there are also a lot of problems that might require a considerable amount of thought (but simple in retrospect), many theoretical problems, and some downright ugly problems.I think this is a complete calculus book. I used it for calculus 1 and 2. I would have used it for my calculus 3, but my class was a mixture of students from different schools, so I chose not to adhere to a single book for calculus 3.All in all, it's the kind of a book for someone who wants a rigorous calculus course, like they used to do in the "old days". At the same time, the amount of information in this book is incredible, and completely authoritative, with tons of worked out examples.

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