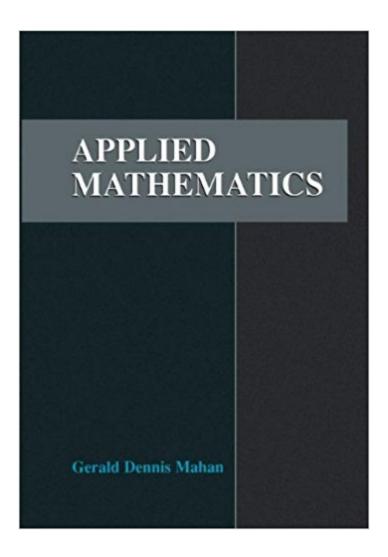


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Applied Mathematics





Synopsis

This volume is a textbook for a year-long graduate level course in All research universities have applied mathematics for scientists and engineers. such a course, which could be taught in different departments, such as mathematics, physics, or engineering. I volunteered to teach this course when I realized that my own research students did not learn much in this course at my university. Then I learned that the available textbooks were too introducÂ- tory. While teaching this course without an assigned text, I wrote up my lecture notes and gave them to the students. This textbook is a result of that endeavor. When I took this course many, many, years ago, the primary references were the two volumes of P. M. Morse and H. Feshbach, Methods of Theoretical Physics (McGraw-Hill, 1953). The present text returns the contents to a similar level, although the syllabus is quite different than given in this venerable pair of books.

Book Information

Hardcover: 368 pages

Publisher: Springer; 2002 edition (December 31, 2001)

Language: English

ISBN-10: 030646683X

ISBN-13: 978-0306466830

Product Dimensions: 7 x 0.9 x 10 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

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Mahan's Text is an up to date exposition of applied mathematics that provides the theoretical foundations for each of the topics covered, followed by unique and insightful applications of the theory. Particularly rewarding are discussions and applications of Markov processes, Complex

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