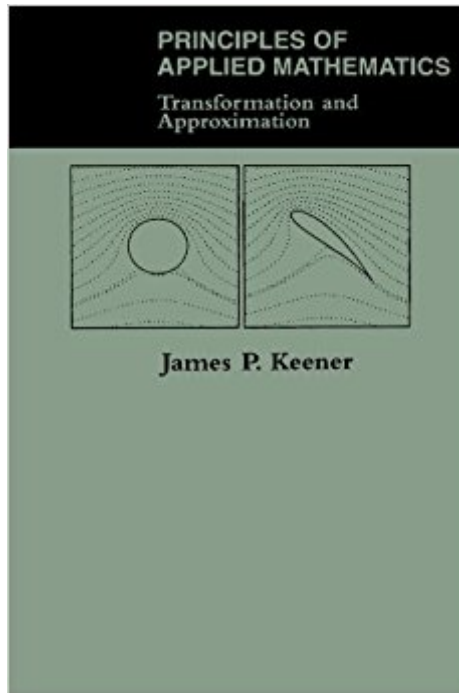




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# Principles Of Applied Mathematics: Transformation And Approximation



## Synopsis

This book is written for beginning graduate students in applied mathematics, science, and engineering, and is appropriate as a one-year course in applied mathematical techniques (although I have never been able to cover all of this material in one year). We assume that the students have studied at an introductory undergraduate level material on linear algebra, ordinary and partial differential equations, and complex variables. The emphasis of the book is a working, systematic understanding of classical techniques in a modern context. Along the way, students are exposed to models from a variety of disciplines. It is hoped that this course will prepare students for further study of modern techniques and in-depth modeling in their own specific discipline.

## Book Information

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## Customer Reviews

James P. Keener is a professor of mathematics at the University of Utah. He received his Ph.D. from the California Institute of Technology in applied mathematics in 1972. In addition to teaching and research in applied mathematics, Professor Keener served as editor in chief of the SIAM Journal on Applied Mathematics and continues to serve as editor of several leading research journals. He is the recipient of numerous research grants. His research interests are in mathematical biology with an emphasis on physiology. His most recent book, co-authored with James Sheyd, is Mathematical Physiology.

For the Chapters I have read so far the presentation is clear and well written. Important topics for applied mathematician are covered that I haven't seen elsewhere.

Goooooooooooo

Pros: Keener is very intelligent and covers a lot of ground. This book is probably great for those who would like to use it as a reference source. Cons: Frustrating typos (I hope Keener will fix this issue in future editions of the book). Many of the concepts and examples in this book come off as simply being glossed over. At other times Keener is very wordy and it becomes easy to get lost in the reading. Many steps in the examples are skipped over. Many of the examples seem like new rules to memorize than examples of the use of theories previously introduced. Note: I recently took a class that used this as the main text. It was very difficult and I think Keener should consider writing another edition of this book. Perhaps with examples that show more steps. The book is very dense and I think covers too much ground for students. For teachers this is probably a great reference source.

The book is surprisingly comprehensive not only in scope but also with respect to well selected details, for such a broad sweep within the compact exposition. Every chapter is worth an attentive reading even if one by and large knows the subject. The overall benefit consists in a well balanced picture of the key ideas and techniques within a major part of what is called applied mathematics (e.g. tensors, differential forms etc are not included), and also of every of the specific subjects treated in individual chapters. Good to have at hand and probably to learn from scratch because of the clarity of exposition.

This book doesn't clarify anything for you. No examples, No further explanation. It only keeps introduce various theories to you. It can compact theories that other books take 2-3 pages to explain it into 5 lines! I think you can imagine. Obviously, this book is not suitable to be your first book (not the second also). Buy it if you are sure that you are smart enough to understand it!

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