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The book is self-contained and has many illustrative examples. I will use to teach a one-semester class (Methods of Mathematical Physics) for advanced undergraduate mathematics students, focused on the aforementioned methods. If your class has physics students as well, you may want to include methods for the analysis of PDEs from other sources.

Advanced Mathematical Methods for Scientists and Engineers ...

Advanced Mathematical Methods for Scientists and Engineers I: Asymptotic Methods and Perturbation Theory. Softcover reprint of hardcover 1st ed. 1999 Edition. by. Carl M. Bender (Author) › Visit Amazon's Carl M. Bender Page. Find all the books, read about the author, and more.

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The mathematical methods discussed in this book are known collectively as asymptotic and perturbative analysis. These are the most useful and powerful methods for finding approximate solutions to equations, but they are difficult to justify rigorously. Thus, we concentrate on the most fruitful aspect of applied analysis; namely, obtaining the answer.

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Mathematical Methods in Engineering and Science 8, Contents VI. Sturm-Liouville Theory Fourier Series and Integrals Fourier Transforms Minimax Approximation* Partial Differential Equations Analytic Functions Integrals in the Complex Plane Singularities of Complex Functions.

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Advanced Mathematical Methods for Scientists and Engineers I. : Carl M. Bender, Steven A. Orszag. Springer Science & Business Media, Oct 29, 1999 - Mathematics - 593 pages. 6 Reviews. This book...

Advanced Mathematical Methods for Scientists and Engineers ...

This book can be used as either a primary text or a supplemental reference for courses in applied mathematics. Its core chapters are devoted to linear algebra, calculus, and ordinary differential equations. Additional topics include partial differential equations and approximation methods. Each chapter features a selection of solved problems. 1992 edition.

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