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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.

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Main *Advanced Mathematical Methods for Scientists and Engineers I: Asymptotic Methods and Perturbation Theory*

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The presentation begins with a review of differential and difference equations; develops local asymptotic methods for differential and difference equations; explains perturbation and summation theory; and concludes with an exposition of global asymptotic methods, including boundary-layer theory, WKB theory, and multiple-scale analysis.

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Book: "Advanced Mathematical Methods for Scientists and Engineers," Coauthored with S.A. Orszag. Originally published by McGraw-Hill, 1978 Currently being published by Springer Garrison Keillor's comments on this book

Carl M. Bender's Home Page

Intended for graduates and advanced undergraduates, it assumes only a limited familiarity with differential equations and complex variables. The presentation begins with a review of differential and difference equations, then develops local asymptotic methods for such equations, and explains perturbation and summation theory before concluding with an exposition of global asymptotic methods.

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