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

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stemjock.com - Solutions to Bender Advanced Math Methods

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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 a 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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