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Advanced Mathematical Methods for Scientists and Engineers ...

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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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Title: Advanced Mathematical Methods for Scientists and Engineers: Asymptotic Methods and Perturbation Theory. Author: Carl M. Bender & Steven A. Orszag. Edition: 1. Pages: 593. Publisher: Copyright © 1999 by Springer-Verlag New York, Inc. ISBN: 978-1-4419-3187-0. Printed in the United States of America. Amazon.com: Page.

stemjock.com - Solutions to Bender Advanced Math Methods

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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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