

Mathematical Methods for Engineers and Scientists 3

Steven A. Orszag, *Harvard University*
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Mathematical Methods for Scientists and Engineers Donald Allan McQuarrie, 2003 Intended for upper level undergraduate and graduate courses in chemistry physics math and engineering this book will also become a must have for the personal library of all advanced students in the physical sciences Comprised of more than 2000 problems and 700 worked examples that detail every single step this text is exceptionally well adapted for self study as well as for course use From publisher description

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Advanced Mathematical Methods for Scientists and Engineers I Carl M. Bender, Steven A. Orszag, 1999-10-29 A clear practical and self contained presentation of the methods of asymptotics and perturbation theory for obtaining approximate analytical solutions to differential and difference equations Aimed at teaching the most useful insights in approaching new problems the text avoids special methods and tricks that only work for particular problems 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 Emphasizing applications the discussion stresses care rather than rigor and relies on many well chosen examples to teach readers how an applied mathematician tackles problems There are 190 computer generated plots and tables comparing approximate and exact solutions over 600 problems of varying levels of difficulty and an appendix summarizing the properties of special functions

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Mathematical Methods in Science and Engineering Selcuk S. Bayin, 2018-02-26 A Practical Interdisciplinary Guide to Advanced Mathematical Methods for Scientists and Engineers Mathematical Methods in Science and Engineering Second Edition provides students and scientists with a detailed mathematical reference for advanced analysis and computational methodologies Making complex tools accessible this invaluable resource is designed for both the classroom and the practitioners the modular format allows flexibility of coverage while the text itself is formatted to provide essential information without detailed study Highly practical discussion focuses on the how to aspect of each topic presented yet provides enough theory to reinforce central processes and mechanisms Recent growing interest in interdisciplinary studies has brought scientists together from physics chemistry biology economy and finance to expand advanced mathematical methods beyond theoretical physics This book is written with this multi disciplinary group in mind emphasizing practical solutions for diverse applications and the development of a new interdisciplinary science Revised and expanded for increased utility this new Second Edition Includes over 60 new sections and subsections more useful to a multidisciplinary audience Contains new examples new figures new problems and more fluid arguments Presents a detailed discussion on the most frequently encountered special functions in science and engineering Provides a systematic treatment of special functions in terms of the Sturm Liouville theory Approaches second order differential equations of physics and engineering from the factorization perspective Includes extensive discussion of coordinate transformations and tensors complex analysis fractional calculus integral transforms Green s functions path integrals and more Extensively reworked to provide increased utility to a broader audience this book provides a self contained three semester course for curriculum self study or reference As more scientific disciplines begin to lean more heavily on advanced mathematical analysis this resource will prove to be an invaluable addition to any bookshelf

Advanced Mathematical Methods in Science and Engineering S.I. Hayek, 2010-06-22 Classroom tested Advanced Mathematical Methods in Science and Engineering Second Edition presents methods of applied mathematics that are particularly suited to address physical problems in science and engineering Numerous examples illustrate the various methods of solution and answers to the end of chapter problems are included at the back of t *Mathematical Methods for Scientists and Engineers* Peter B. Kahn, 2004-01-01 Appropriate for advanced undergraduate and graduate students in a variety of scientific and engineering fields this text introduces linear and nonlinear

problems and their associated models The first part covers linear systems emphasizing perturbation or approximation techniques and asymptotic methods The second part comprises nonlinear problems including weakly nonlinear oscillatory systems and nonlinear difference equations The two parts both of which include exercises merge smoothly and many of the nonlinear techniques arise from the study of the linear systems 1990 edition 70 figures 4 tables Appendix Index

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