



Modern Mathematical Methods for Physicists and Engineers

By C. D. Cantrell

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The advent of powerful desktop computers has revolutionized scientific analysis and engineering design in fields as disparate as particle physics and telecommunications. This up-to-date volume provides the essential mathematical and computational education for students, researchers, and practicing engineers. The author begins with a review of computation, and then deals with a range of key concepts including sets, fields, matrix theory, and vector spaces. He then goes on to cover more advanced subjects such as linear mappings, group theory, and special functions. He concentrates exclusively on the most important topics for the working physical scientist or engineer with the aim of helping them to make intelligent use of the latest computational and analytical methods. The book contains well over 400 homework problems and covers many topics not dealt with in other textbooks. It will be ideal for senior undergraduate and graduate students in the physical sciences and engineering, as well as a valuable reference for working engineers.

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Review

'The emphasis on computation sets Cantrell's book apart ... it would provide an excellent introduction to some of the computational issues in applying numerics to non-linear dynamical problems.' David Jefferies, The Times Higher Education Supplement

'Precisely because one can dip in, this book has a very real value as a reference for science graduates with some mathematical background who find themselves seriously in need of some more.' Derek Raine, The Observatory

'... unique in the sense that it sails across the ocean of contemporary advanced mathematics by an impressive tour de force ...'. Thomas Z. Fahidy, Measurement Science & Technology

'... an excellent job of surveying selected topics of modern mathematics that graduate students of physics and engineering are likely to encounter.' Any Magid, Computer Applications

'It is not the contents of the book that is really original - albeit one could already prize the good selection of materials by the author - but it is the way they are presented, the choice of examples and exercises, the way to solve the exercises, and the successful equilibrium between the basic classical concepts and issues that no student can skip, and the computational tools nowadays available, that are remarkable ... a book to be recommended, from beginning to end.' E. Elizalde, Zentralblatt für Mathematik und ihre Grenzgebiete Mathematics Abstracts

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