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interpretations and select appropriate techniques for analyzing multivariate data. Ideal for a junior/senior or graduate level course that explores the statistical methods for describing and analyzing multivariate data, the text assumes two or more statistics courses as a prerequisite.

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applicable in computational science, particularly in computational physics and chemistry. The volume reflects that the cooperation of computer scientists, mathematicians and scientists provides new numerical tools for computational scientists and, at the same time, stimulates numerical analysis.

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mathematical clarity of the first edition are continued in this edition. Major revisions in this edition include: an expanded coverage of three-dimensional stress/strain transformations; additional topics from the theory of elasticity; examples and problems which test the mastery of the prerequisite elementary topics; clarified and additional topics from advanced mechanics of materials; new sections on fracture mechanics and structural stability; a completely rewritten chapter on the finite element method; a new chapter on finite element modeling techniques employed in practice when using commercial FEM software; and a significant increase in the number of end of chapter exercise problems some of which are oriented towards computer applications.

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This author-prepared resource provides the tools students need to practice and test their own understanding with this focused manual that contains step-by-step completed solutions to the odd-numbered problems in the text.

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