Multivariable Calculus, Linear Algebra, and Differential Equations

By Stanley I. Grossman

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The third edition combines coverage of multivariable calculus with linear algebra and differential equations. Grossman's unique approach provides maths, engineering, and physical science students with a continuity of level and style. The intuitive approach is stressed over a more rigorous/formal treatment of the topics. An abundance of examples, graded exercises, and numerous applications all contribute to student appeal. Features: * Historical notes and biographical sketches describe the development of an idea or identify an important person in mathematics. * Graphs and exercises sets are incorporated thoughout the text to help students visualize mathematics and better understand concepts. * An optional discussion of Newton's method for two variables is part of Section 3.12. * The Summing Up Theorem is used to tie together seemingly disparate topics in the study of linear algebra. * Section 10.3 contains an answer to the question "When is a differential equation separable ?" * Numerous examples throughout the text contain all the algebraic steps needed to complete the solution. * The text contains over 5,500 exercises graded according to difficulty, and there is a balance between technique and proof. New to this edition: * Solving Linear Systems Numerically: Gaussian Elimination with Divoting has been added to Chapter 6. * Coverage of Least Squares Approximation and Isomorphisms has been added to Chapter 8. * True/False and multiple choice "Self-Quiz" exercises now begin each problem set. Students can use these exercises to access their comprehension before tackling the exercise set. * Each chapter now ends with a review of the important results of that chapter. * Examples and figures are now titled so that students can easily grasp the essential concept each one illustrates.

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Multivariable Calculus, Linear Algebra, and Differential Equations By Stanley I. Grossman Bibliography

- Sales Rank: #3005128 in Books
- Published on: 1996-04
- Original language: English
- Number of items: 1
- Dimensions: 10.50" h x 8.50" w x 1.75" l,
- Binding: Hardcover
- 1009 pages

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