



# Multivariable Calculus, Linear Algebra and Differential Equations: Student Solution Manual

*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 throughout 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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