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One of the most useful applications for derivatives of a function of one variable is the determination of maximum and/or minimum values. This application is also important for functions of two or more variables, but as we have seen in earlier sections of this chapter, the introduction of more independent variables leads to more possible outcomes for the calculations.

2.9: Optimization of Functions of Several Variables ...

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Calculus: One and Several Variables, 10th Edition. Saturnino L. Salas, Garret J. Etgen, Einar Hille. ISBN: 978-0-471-69804-3 November 2006 1168 Pages. E-Book AUD \$65.00. Hardcover AUD \$208.95. Read an Excerpt Excerpt 1: (PDF) Excerpt 2: (PDF) Excerpt 3: (PDF) Description.

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Calculus: One and Several Variables, 10th Edition. By Saturnino L. Salas, Einar Hille, Garret J. Etgen. Calculus: One and Several Variables reviews the difficult concepts of calculus without sacrificing rigor by providing a precise and perfect balance of theory and applications. This course instills in students a clear understanding of calculus as well as a broad insight into mathematics.

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The present course on calculus of several variables is meant as a text, either for one semester following the First Course in Calculus, or for a longer period if the calculus sequence is so structured. In a one-semester course, I suggest covering most of the first part,

CALCULUS OF SEVERAL VARIABLES - WordPress.com

Section 6-5 : Functions of Several Variables. In this section we want to go over some of the basic ideas about functions of more than one variable. First, remember that graphs of functions of two variables,  $(z = f(\{x,y\}))$  are surfaces in three dimensional space. For example, here is the graph of  $(z = 2\{x^2\} + 2\{y^2\} - 4)$ .

Calculus II - Functions of Several Variables

The book consistently provides clear calculus content to help them master these concepts and understand its relevance to the real world. Throughout its pages, Calculus: One and Several Variables, 10th Edition offers a perfect balance of theory and applications to elevate mathematical insights.

Provides a thorough overview of introductory calculus concepts and application?focusing on comprehension, problem solving, and real-world usage For ten editions, readers have turned to Salas to learn the difficult concepts of calculus without sacrificing rigor. The book consistently provides clear calculus content to help them master these concepts and understand its relevance to the real world. Throughout its pages, Calculus: One and Several Variables, 10th Edition offers a perfect balance of theory and applications to elevate mathematical insights. Readers will also find that it emphasizes both problem-solving skills and real-world applications that don't rely on obscure calculus identities, and which build on one another to help develop important knowledge and skills.

Wiley is proud to publish a new revision of this successful classic text known for its elegant writing style, precision and perfect balance of theory and applications. The Tenth Edition is refined to offer students an even clearer understanding of calculus and insight into mathematics. It includes a wealth of rich problem sets which makes calculus relevant for students.

Salas/Hille/Etgen is recognized for its mathematical integrity, accuracy, and clarity.

Advanced Calculus of Several Variables provides a conceptual treatment of multivariable calculus. This book emphasizes the interplay of geometry, analysis through linear algebra, and approximation of nonlinear mappings by linear ones. The classical applications and computational methods that are responsible for much of the interest and importance of calculus are also considered. This text is organized into six chapters. Chapter I deals with linear algebra and geometry of Euclidean  $n$ -space  $R^n$ . The multivariable differential calculus is treated in Chapters II and III, while multivariable integral calculus is covered in Chapters IV and V. The last chapter is devoted to venerable problems of the calculus of variations. This publication is intended for students who have completed a standard introductory calculus sequence.

This new, revised edition covers all of the basic topics in calculus of several variables, including vectors, curves, functions of several variables, gradient, tangent plane, maxima and minima, potential functions, curve integrals, Green's theorem, multiple integrals, surface integrals, Stokes' theorem, and the inverse mapping theorem and its consequences. It includes many completely worked-out problems.

Includes index.

A revised and updated presentation of calculus with applications to engineering and the sciences. Changes include an early treatment of the calculus of the trigonometric functions, an increased use of Riemann definition of the integral, the introduction of several numerical techniques, an early chapter on mathematical modeling, expanded and balanced exercise sets, suggested procedures for problem solving, revised proofs, and additional examples. Chapter 13 is contained in both Part I and Part II.

This text was produced for the second part of a two-part sequence on advanced calculus, whose aim is to provide a firm logical foundation for analysis. The first part treats analysis in one variable, and the text at hand treats analysis in several variables. After a review of topics from one-variable analysis and linear algebra, the text treats in succession multivariable differential calculus, including systems of differential equations, and multivariable integral calculus. It builds on this to develop calculus on surfaces in Euclidean space and also on manifolds. It introduces differential forms and establishes a general Stokes formula. It describes various applications of Stokes formula, from harmonic functions to degree theory. The text then studies the differential geometry of surfaces, including geodesics and curvature, and makes contact with degree theory, via the Gauss-Bonnet theorem. The text also takes up Fourier analysis, and bridges this with results on surfaces, via Fourier analysis on spheres and on compact matrix groups.

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