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Calculus: One and Several Variables

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Wiley, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1. Precalculus Review.1.1 What is Calculus?1.2 Review of Elementary Mathematics.1.3 Review of Inequalities.1.4 Coordinate Plane; Analytic Geometry.1.5 Functions.1.6 The Elementary Functions.1.7 Combinations of Functions.1.8 A Note on Mathematical Proof; Mathematical Induction.Chapter 2. Limits and Continuity.2.1 The Limit Process (An Intuitive Introduction).2.2 Definition of Limit.2.3 Some Limit Theorems.2.4 Continuity.2.5 The Pinching Theorem; Trigonometric Limits.2.6 Two Basic Theorems.Chapter 3. The Derivative; The Process of Differentiation.3.1 The Derivative.3.2 Some Differentiation Formulas.3.3 The dx Notation; Derivatives of Higher Order.3.4 The Derivative as a Rate of Change.3.5 The Chain Rule.3.6 Differentiating the Trigonometric Functions.3.7 Implicit Differentiation; Rational Powers.Chapter 4. The Mean-Value Theorem; Applications of the First and Second Derivatives.4.1 The Mean-Value Theorem.4.2 Increasing and Decreasing Functions.4.3 Local Extreme Values.4.4 Endpoint Extreme Values; Absolute Extreme Values.4.5 Some Max-Min Problems.4.6 Concavity and Points of Inflection.4.7 Vertical and Horizontal Asymptotes; Vertical Tangents and Cusps.4.8 Some Curve Sketching.4.9 Velocity and Acceleration; Speed.4.10 Related Rates of Change Per Unit Time.4.11 Differentials.4.12 Newton-Raphson Approximations.Chapter 5. Integration.5.1 An Area Problem; A Speed-Distance Problem.5.2 The Definite Integral of a Continuous Function. 5.3 The Function $f(x) = \int_a^x f(t) dt$.5.4 The Fundamental Theorem...



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This publication is great. It is full of wisdom and knowledge You will not really feel monotony at any time of the time (that's what catalogs are for relating to when you ask me).

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