



# Calculus and Its Applications (8th Edition)

By Bittinger, Marvin L.

Addison Wesley, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (Each chapter concludes with a Summary and Review, and a Chapter Test.) 1. Functions, Graphs, and Models. Graphs and Equations. Functions and Models. Finding Domain and Range. Slope and Linear Functions. Other Functions and Models. Mathematical Modeling and Curve Fitting. ExtENDed Technology Application: The Ecological Effect of Global Warming. 2. Differentiation. Limits and Continuity: Numerically and Graphically. Limits: Algebraically. Average Rates of Change. Differentiation Using Limits of Difference Quotients. Differentiation Techniques: The Power and Sum-Difference Rules. Instantaneous Rates of Change. Differentiation Techniques: The Product and Quotient Rules. The Chain Rule. Higher-Order Derivatives. ExtENDed Technology Application: Path of a Baseball: The Tale of the Tape. 3. Applications of Differentiation. Using First Derivatives to Find Maximum and Minimum Values and Sketch Graphs. Using Second Derivatives to Find Maximum and Minimum Values and Sketch Graphs. Graph Sketching: Asymptotes and Rational Functions. Using Derivatives to Find Absolute Maximum and Minimum Values. Maximum-Minimum Problems: Business and Economic Applications. Differentials. Implicit Differentiation and Related Rates. ExtENDed Technology Application: Maximum Sustainable Harvest. 4. Exponential and Logarithmic Functions. Exponential Functions. Logarithmic Functions. Applications: The Uninhibited Growth Model, dP/dt = kP. Applications:...



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