



## Applied Mathematics with Microsoft Excel

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Cengage Learning, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: SPREADSHEET BASICS 1. LINEAR FUNCTIONS Slope-Intercept Form / Break Even Analysis / Using Excel's Goal Seek to: (A) Solve for  $x$ , given  $y$ ; (B) Solve for  $y$ , given  $x$  / Inserting a Trendline 2. POWER FUNCTIONS AND QUADRATIC FUNCTIONS Power Functions / Graphing Concepts: Shifts and Reflections / Quadratic Functions: Graphs of  $y = ax^2 + bx + c$  / Revenue Functions and Break-even Analysis 3. SELECTED RATIONAL FUNCTIONS Odd and Even Powers of  $y = a/x^n$ ; Sums of Functions / Average Cost Functions; Inventory Cost 4. MATRICES AND LINEAR SYSTEMS Matrix Operations / Solving Linear Systems by Matrix Inverses / Leontief's Input-Output Model 5. LINEAR PROGRAMMING 6. MATHEMATICS OF FINANCE Simple vs. Compound Interest / International Investing / Future Value of an Annuity / Present Value of an Annuity / Amortization / Automobile Leases 7. PROBABILITY DISTRIBUTIONS Probability Distributions and Expected Value / Variance and Standard Deviation / The Binomial Distribution / The Normal Distribution 8. DERIVATIVES Limits / Instantaneous Rate of Change: Numerical Approximation / Differentiability: A Numerical Perspective 9. EXPONENTIAL AND LOGARITHMIC FUNCTIONS Exponential Growth and Decay / The Constant  $e$ ...



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