### Brief Contents -

I P	art One: Value		■ Pa	art Six Options	
1	Goals and Governance of the Firm	1	20	Understanding Options	502
2	How to Calculate Present Values	20	21	Valuing Options	525
3	Valuing Bonds	45	22	Real Options	554
4	The Value of Common Stocks	74		•	
5	Net Present Value and Other Investment Criteria	101		Condition Debt Financing	
6	Making Investment Decisions with the Net Present Value Rule	127	24	Credit Risk and the Value of Corporate Debt The Many Different Kinds of Debt Leasing	597 597 625
I P	art Two Risk		• D	out Fight D: 134	
7	Introduction to Risk and Return	156	I Pa	art Eight Risk Management	
8	Portfolio Theory and the Capital Asset	130	26	Managing Risk	645
O	Pricing Model	185	27	Managing International Risks	676
	Risk and the Cost of Capital	213	Part Nine Financial Planning and Working Capital Management		
<u> </u>	art Three Best Practices in Capital Budgetin	ıg			
10	Project Analysis	240	28	Financial Analysis	704
11	Investment, Strategy, and Economic Rents	268	29	Financial Planning	731
12	Agency Problems, Compensation, and Performance Measurement	290	30	Working Capital Management	757
∎ P	art Four Financing Decisions and Market	270	I Pa	art Ten Mergers, Corporate Control, and Governance	
	Efficiency		31	Mergers	792
13	Efficient Markets and Behavioral Finance	312	32	Corporate Restructuring	822
	An Overview of Corporate Financing	341	33	Governance and Corporate Control	
	How Corporations Issue Securities	362		around the World	846
I P	art Five Payout Policy and Capital Structure	2	I Pa	art Eleven Conclusion	
16	Payout Policy	391	34	Conclusion: What We Do and Do Not	866
17	Does Debt Policy Matter?	418		Know about Finance 86	
18	How Much Should a Corporation Borrow?	440			
19	Financing and Valuation	471			

#### I Part One Value

#### 1 Goals and Governance of the Firm 1

- 1-1 Corporate Investment and Financing
  Decisions 2
  Investment Decisions/Financing Decisions/What Is
  a Corporation?
- **1-2** The Role of the Financial Manager and the Opportunity Cost of Capital 6

  The Investment Trade-off
- 1-3 Goals of the Corporation 9
  Shareholders Want Managers to Maximize Market
  Value/A Fundamental Result/Should Managers Look
  After the Interests of Their Shareholders?/Should Firms
  Be Managed for Shareholders or All Stakeholders?
- 1-4 Agency Problems and Corporate Governance 12
  Pushing Subprime Mortgages: Value Maximization
  Run Amok, or an Agency Problems/Agency Problems
  Are Mitigated by Good Systems of Corporate
  Governance

Summary 15 • Problem Sets 16 • Appendix: Foundations of the Net Present Value Rule 18

### 2 How to Calculate Present Values 20

- 2-1 Future Values and Present Values 21

  Calculating Future Values/Calculating Present

  Values/Calculating the Present Value of an Investment

  Opportunity/Net Present Value/Risk and Present

  Value/Present Values and Rates of Return/Calculating

  Present Values When There Are Multiple Cash Flows/

  The Opportunity Cost of Capital
- 2-2 Looking for Shortcuts—Perpetuities and
  Annuities 27
  How to Value Perpetuities/How to Value Annuities/
  PV Annuities Due/Calculating Annual Payments/

Future Value of an Annuity

**2-3** More Shortcuts—Growing Perpetuities and Annuities 33
Growing Perpetuities/Growing Annuities

# 2-4 How Interest Is Paid and Quoted 35 Continuous Compounding Summary 39 • Problem Sets 39 Real-Time Data Analysis 43

### 3 Valuing Bonds 45

- 3-1 Using the Present Value Formula to Value Bonds 46
  A Short Trip to Paris to Value a Government Bond/Back to the United States: Semiannual Coupons and Bond Prices
- **3-2** How Bond Prices Vary with Interest Rates 49 Duration and Volatility
- 3-3 The Term Structure of Interest Rates 53

  Spot Rates, Bond Prices, and the Law of One Price/
  Measuring the Term Structure/Why the Discount
  Factor Declines as Futurity Increases—and a

  Digression on Money Machines
- **3-4** Explaining the Term Structure 57

  Expectations Theory of the Term Structure/Introducing
  Risk/Inflation and Term Structure
- 3-5 Real and Nominal Rates of Interest 59
  Indexed Bonds and the Real Rate of Interest/What
  Determines the Real Rate of Interest?/Inflation and
  Nominal Interest Rates
- **3-6** Corporate Bonds and the Risk of Default 65 Corporate Bonds Come in Many Forms

Summary 68 • Further Reading 69 Problem Sets 69 • Real-Time Data Analysis 73

### 4 The Value of Common Stocks 74

- **4-1** How Common Stocks Are Traded 75
- **4-2** How Common Stocks Are Valued 76

  Valuation by Comparables/The Determinants of

  Stock Prices/Today's Price/But What Determines

  Next Year's Price?
- **4-3** Estimating the Cost of Equity Capital 81

  Using the DCF Model to Set Gas and Electricity

  Prices/Dangers Lurk in Constant-Growth Formulas

### **4-4** The Link between Stock Price and Earnings per Share 87

Calculating the Present Value of Growth Opportunities for Fledgling Electronics

### **4-5** Valuing a Business by Discounted Cash Flow 90

Valuing the Concatenator Business/Valuation Format/Estimating Horizon Value/A Further Reality Check

Summary 94 • Further Reading 95 Problem Sets 95 • Real-Time Data Analysis 99 Mini-Case: Reeby Sports 99

#### 5 Net Present Value and Other Investment Criteria 101

**5-1** A Review of the Basics 101

Net Present Value's Competitors/Three Points to Remember about NPV/NPV Depends on Cash Flow, Not on Book Returns

**5-2** Payback 105

Discounted Payback

### **5-3** Internal (or Discounted-Cash-Flow) Rate of Return 107

Calculating the IRR/The IRR Rule/Pitfall
1—Lending or Borrowing?/Pitfall 2—Multiple
Rates of Return/Pitfall 3—Mutually Exclusive
Projects/Pitfall 4—What Happens When There Is
More Than One Opportunity Cost of Capital?/The
Verdict on IRR

### **5-4** Choosing Capital Investments When Resources Are Limited 115

An Easy Problem in Capital Rationing/Uses of Capital Rationing Models

Summary 119 • Further Reading 120 Problem Sets 120

Mini-Case: Vegetron's CFO Calls Again 124

#### 6 Making Investment Decisions with the Net Present Value Rule 127

# 6-1 Applying the Net Present Value Rule 128 Rule 1: Only Cash Flow Is Relevant/Rule 2: Estimate Cash Flows on an Incremental Basis/Rule 3: Treat Inflation Consistently

### **6-2** Example—IM&C'S Fertilizer Project 132

Separating Investment and Financing
Decisions/Investments in Working Capital/A
Further Note on Depreciation/A Final Comment on
Taxes/Project Analysis/Calculating NPV in Other
Countries and Currencies

#### **6-3** Investment Timing 140

#### **6-4** Equivalent Annual Cash Flows 141

Investing to Produce Reformulated Gasoline at
California Refineries/Choosing Between Long- and
Short-Lived Equipment/Equivalent Annual Cash
Flow and Inflation/ Equivalent Annual Cash Flow
and Technological Change/Deciding When to Replace
an Existing Machine

Summary 146 • Problem Sets 146 Mini-Case: New Economy Transport (A) and (B) 153

#### I Part Two Risk

#### 7 Introduction to Risk and Return 156

### **7-1** Over a Century of Capital Market History in One Easy Lesson 156

Arithmetic Averages and Compound Annual Returns/Using Historical Evidence to Evaluate Today's Cost of Capital/Dividend Yields and the Risk Premium

### **7-2** Measuring Portfolio Risk 163 Variance and Standard Deviation/Measuring Variability/How Diversification Reduces Risk

**7-3** Calculating Portfolio Risk 170

General Formula for Computing Portfolio

Risk/Limits to Diversification

### 7-4 How Individual Securities Affect Portfolio Risk 174 Market Risk Is Measured by Beta/Why Security Betas Determine Portfolio Risk

**7-5** Diversification and Value Additivity 177 Summary 178 • Further Reading 179 Problem Sets 179 • Real-Time Data Analysis 184

#### 8 Portfolio Theory and the Capital Asset Model Pricing 185

### **8-1** Harry Markowitz and the Birth of Portfolio Theory 185

Combining Stocks into Portfolios/We Introduce Borrowing and Lending

### **8-2** The Relationship between Risk and Return 192

Some Estimates of Expected Returns/Review of the Capital Asset Pricing Model/What If a Stock Did Not Lie on the Security Market Line?

### **8-3** Validity and Role of the Capital Asset Pricing Model 195

Tests of the Capital Asset Pricing Model/Assumptions behind the Capital Asset Pricing Model

#### **8-4** Some Alternative Theories 199

Arbitrage Pricing Theory/A Comparison of the Capital Asset Pricing Model and Arbitrage Pricing Theory/The Three-Factor Model

Summary 203 • Further Reading 204 Problem Sets 204 • Real-Time Data Analysis 210 Mini-Case: John and Marsha on Portfolio Selection 211

### 9 Risk and the Cost of Capital 213

### 9-1 Company and Project Costs of Capital 214 Perfect Pitch and the Cost of Capital/Debt and the Company Cost of Capital

# 9-2 Measuring the Cost of Equity 217 Estimating Beta/The Expected Return on Union Pacific Corporation's Common Stock/ Union Pacific's After-Tax Weighted-Average Cost of Capital/Union Pacific's Asset Beta

### 9-3 Analyzing Project Risk 221

What Determines Asset Betas?/Don't Be Fooled by Diversifiable Risk/Avoid Fudge Factors in Discount Rates/Discount Rates for International Projects

### **9-4** Certainty Equivalents—Another Way to Adjust for Risk 227

Valuation by Certainty Equivalents/When to Use a Single Risk-Adjusted Discount Rate for Long-Lived Assets/A Common Mistake/When You Cannot Use a Single Risk-Adjusted Discount Rate for Long-Lived Assets

Summary 232 • Further Reading 233 Problem Sets 233 • Real-Time Data Analysis 237 Mini-Case: The Jones Family, Incorporated 237

### Part Three Best Practices in Capital Budgeting

### 10 Project Analysis 240

#### **10-1** The Capital Investment Process 241

Project Authorizations—and the Problem of Biased Forecasts/Postaudits

#### 10-2 Sensitivity Analysis 243

Value of Information/Limits to Sensitivity Analysis/ Scenario Analysis/Break-Even Analysis/Operating Leverage and the Break-Even Point

### **10-3** Monte Carlo Simulation 249 Simulating the Electric Scooter Project

#### 10-4 Real Options and Decision Trees 253

The Option to Expand/The Option to Abandon/Production Options/Timing Options/More on Decision Trees/Pro and Con Decision Trees

Summary 260 • Further Reading 261 Problem Sets 262

Mini-Case: Waldo County 266

### 11 Investment, Strategy, and Economic Rents 268

### **11-1** Look First to Market Values 268 The Cadillac and the Movie Star

**11-2** Economic Rents and Competitive Advantage 273

### **11-3** Marvin Enterprises Decides to Exploit a New Technology: an Example 276

Forecasting Prices of Gargle Blasters / The Value of Marvin's New Expansion / Alternative Expansion Plans / The Value of Marvin Stock / The Lessons of Marvin Enterprises

Summary 283 • Further Reading 284

Problem Sets 284

Mini-Case: Ecsy-Cola 289

### 12 Agency Problems, Compensation, and Performance Measurement 290

#### **12-1** Incentives and Compensation 290

Agency Problems in Capital Budgeting/ Monitoring/Management Compensation/Incentive Compensation

12-2	Measuring and Rewarding Performance:
	Residual Income and EVA 298
	Pros and Cons of EVA

### **12-3** Biases in Accounting Measures of Performance 301

Example: Measuring the Profitability of the Nodhead Supermarket/Measuring Economic Profitability/Do the Biases Wash Out in the Long Run?/What Can We Do about Biases in Accounting Profitability Measures?/Earnings and Earnings Targets

Summary 307 • Further Reading 307 Problem Sets 308

### Part Four Financing Decisions and Market Efficiency

### 13 Efficient Markets and Behavioral Finance 312

**13-1** We Always Come Back to NPV 313

Differences between Investment and Financing Decisions

13-2 What Is an Efficient Market? 314

A Startling Discovery: Price Changes Are
Random/Three Forms of Market Efficiency/Efficient
Markets: The Evidence

13-3 The Evidence against Market Efficiency 321

Do Investors Respond Slowly to New

Information?/Bubbles and Market Efficiency

13-4 Behavioral Finance 326

Limits to Arbitrage/Incentive Problems and the Subprime Crisis

13-5 The Six Lessons of Market Efficiency 329

Lesson 1: Markets Have No Memory/Lesson

2: Trust Market Prices/Lesson 3: Read the

Entrails/Lesson 4: There Are No Financial

Illusions/Lesson 5: The Do-It-Yourself

Alternative/Lesson 6: Seen One Stock, Seen Them

All/What if Markets Are Not Efficient? Implications
for the Financial Manager

Summary 335 • Further Reading 335 Problem Sets 337 • Real-Time Data Analysis 340

### 14 An Overview of Corporate Financing 34

### 14-1 Patterns of Corporate Financing 341 Do Firms Rely Too Much on Internal Funds?/How Much Do Firms Borrow?

# 14-2 Common Stock 345 Ownership of the Corporation/Voting Procedures/Dual-class Shares and Private Benefits/Equity in Disguise/Preferred Stock

14-3 Debt 351

Debt Comes in Many Forms/A Debt by Any Other

Name/Variety's the Very Spice of Life

**14-4** Financial Markets and Institutions 354

The Financial Crisis of 2007–2009/The Role of
Financial Institutions

Summary 357 • Further Reading 358
Problem Sets 359 • Real-Time Data Analysis 361

### 15 How Corporations Issue Securities 362

**15-1** Venture Capital 362

The Venture Capital Market

15-2 The Initial Public Offering 366

Arranging an Initial Public Offering/The Sale of
Marvin Stock/The Underwriters/Costs of a New
Issue/Underpricing of IPOs/Hot New-Issue Periods

**15-3** Alternative Issue Procedures for IPOs 375 *Types of Auction: a Digression* 

15-4 Security Sales by Public Companies 376

General Cash Offers/International Security

Issues/The Costs of a General Cash Offer/Market

Reaction to Stock Issues/Rights Issues

**15-5** Private Placements and Public Issues 381 Summary 382 • Further Reading 383 Problem Sets 383 • Real-Time Data Analysis 387 Appendix: Marvin's New-Issue Prospectus 387

### Part Five Payout Policy and Capital Structure

### 16 Payout Policy 391

16-1 Facts about Payout 391

16-2	How Firms	Pay Dividends	and Repurchase
	Stock 392		

How Firms Repurchase Stock

#### 16-3 How Do Companies Decide on Payouts? 394

### **16-4** The Information in Dividends and Stock Repurchases 395

The Information Content of Share Repurchases

#### **16-5** The Payout Controversy 397

Dividend Policy Is Irrelevant in Perfect Capital Markets/Dividend Irrelevance—An Illustration/Calculating Share Price/Stock Repurchase/Stock Repurchase and Valuation

#### **16-6** The Rightists 402

Payout Policy, Investment Policy, and Management Incentives

#### 16-7 Taxes and the Radical Left 404

Why Pay Any Dividends at All?/Empirical Evidence on Dividends and Taxes/The Taxation of Dividends and Capital Gains/Alternative Tax Systems

#### 16-8 The Middle-of-the-Roaders 409

Payout Policy and the Life Cycle of the Firm

Summary 411 • Further Reading 412 Problem Sets 412

### 17 Does Debt Policy Matter? 418

### **17-1** The Effect of Financial Leverage in a Competitive Tax-free Economy 419

Enter Modigliani and Miller/The Law of Conservation of Value/An Example of Proposition 1

#### 17-2 Financial Risk and Expected Returns 424

Proposition 2/How Changing Capital Structure Affects Beta

### 17-3 The Weighted-Average Cost of Capital 428

Two Warnings/Rates of Return on Levered
Equity—The Traditional Position/Today's
Unsatisfied Clienteles Are Probably Interested in
Exotic Securities/Imperfections and Opportunities

#### **17-4** A Final Word on the After-Tax Weighted-Average Cost of Capital 433

Summary 434 • Further Reading 434 Problem Sets 435

### 18 How Much Should a Corporation Borrow? 440

#### **18-1** Corporate Taxes 441

How Do Interest Tax Shields Contribute to the Value of Stockholders' Equity?/Recasting Merck's Capital Structure/MM and Taxes

#### **18-2** Corporate and Personal Taxes 444

#### **18-3** Costs of Financial Distress 447

Bankruptcy Costs/Evidence on Bankruptcy
Costs/Direct versus Indirect Costs of
Bankruptcy/Financial Distress without
Bankruptcy/Debt and Incentives/Risk Shifting:
The First Game/Refusing to Contribute Equity
Capital: The Second Game/And Three More Games,
Briefly/What the Games Cost/Costs of Distress Vary
with Type of Asset/The Trade-off Theory of Capital
Structure

#### **18-4** The Pecking Order of Financing Choices 460

Debt and Equity Issues with Asymmetric
Information/Implications of the Pecking Order/The
Trade-off Theory vs. the Pecking-Order Theory—Some
Recent Tests/The Bright Side and the Dark Side
of Financial Slack/Is There a Theory of Optimal
Capital Structure?

Summary 465 • Further Reading 466 Problem Sets 467 • Real-Time Data Analysis 470

### **19** Financing and Valuation 471

### 19-1 The After-Tax Weighted-Average Cost of Capital 471

Review of Assumptions

#### 19-2 Valuing Businesses 475

Valuing Rio Corporation/Estimating Horizon Value/WACC vs. the Flow-to-Equity Method

#### 19-3 Using WACC in Practice 479

Some Tricks of the Trade/Mistakes People Make in Using the Weighted-Average Formula/Adjusting WACC When Debt Ratios and Business Risks Differ/Unlevering and Relevering Betas/The Importance of Rebalancing/The Modigliani–Miller Formula, Plus Some Final Advice

#### 19-4 Adjusted Present Value 486

APV for the Perpetual Crusher/Other Financing Side Effects/APV for Businesses/APV for International Investments

**19-5** Your Questions Answered 490 Summary 492 • Further Reading 493 Problem Sets 494 • Real-Time Data Analysis 498 Appendix: Discounting Safe, Nominal Cash Flows 498

#### I Part Six Options

### **20** Understanding Options 502

**20-1** Calls, Puts, and Shares 503

Call Options and Position Diagrams/Put

Options/Selling Calls, Puts, and Shares/Position

Diagrams Are Not Profit Diagrams

**21-2** Financial Alchemy with Options 507 *Spotting the Option* 

**21-3** What Determines Option Values? 513 *Risk and Option Values* 

Summary 519 • Further Reading 519 Problem Sets 519 • Real-Time Data Analysis 524

### 21 Valuing Options 525

### **21-1** A Simple Option-Valuation Model 525

Why Discounted Cash Flow Won't Work for Options/Constructing Option Equivalents from Common Stocks and Borrowing/Valuing the Google Put Option

21-2 The Binomial Method for Valuing Options 530

Example: The Two-Stage Binomial Method/The

General Binomial Method/The Binomial Method

and Decision Trees

**21-3** The Black–Scholes Formula 534 *Using the Black–Scholes Formula/The Risk of* 

an Option/The Black–Scholes Formula and the Binomial Method

21-4 Black-Scholes in Action 538

Executive Stock Options/Warrants/Portfolio Insurance/Calculating Implied Volatilities

21-5 Option Values at a Glance 542

**21-6** The Option Menagerie 543

Summary 544 • Further Reading 544
Problem Sets 545 • Real-Time Data Analysis 548
Mini-Case: Bruce Honiball's Invention 549

Appendix: How Dilution Affects Option Value 550

### 22 Real Options 554

### **22-1** The Value of Follow-on Investment Opportunities 554

Questions and Answers about Blitzen's Mark II/Other Expansion Options

**22-2** The Timing Option 558

Valuing the Malted Herring Option/Optimal Timing
for Real Estate Development

**22-3** The Abandonment Option 561

The Zircon Subductor Project/Abandonment Value and Project Life/Temporary Abandonment

**22-4** Flexible Production 566

22-5 Aircraft Purchase Options 567

**22-6** A Conceptual Problem? 569 *Practical Challenges* 

Summary 571 • Further Reading 572 Problem Sets 572

### ■ Part Seven Debt Financing

### 23 Credit Risk and the Value of Corporate Debt 577

**23-1** Yields on Corporate Debt 577 What Determines the Yield Spread?

**23-2** The Option to Default 581

How the Default Option Affects a Bond's Risk and Yield/A Digression: Valuing Government Financial Guarantees

- **23-3** Bond Ratings and the Probability of Default 587
- **23-4** Predicting the Probability of Default 588 Credit Scoring/Market-Based Risk Models

23-5	Value	at Risk	592

Summary 594 • Further Reading 594

Problem Sets 595 • Real-Time Data Analysis 596

### 24 The Many Different Kinds of Debt 597

- **24-1** Domestic Bonds, Foreign Bonds, and Eurobonds 598
- **24-2** The Bond Contract 599 *Indenture, or Trust Deed/The Bond Terms*
- **24-3** Security and Seniority 601 Asset-Backed Securities
- **24-4** Repayment Provisions 603 Sinking Funds/Call Provisions
- 24-5 Debt Covenants 605
- 24-6 Convertible Bonds and Warrants 607

The Value of a Convertible at Maturity/
Forcing Conversion/Why Do Companies
Issue Convertibles?/Valuing Convertible Bonds/A
Variation on Convertible Bonds: The Bond–Warrant
Package

- **24-7** Private Placements and Project Finance 612

  Project Finance/Project Finance—Some Common

  Features/The Role of Project Finance
- **24-8** Innovation in the Bond Market 615 Summary 617 Further Reading 618 Problem Sets 619

Mini-Case: The Shocking Demise of Mr. Thorndike 623

### **25** Leasing 625

- **25-1** What Is a Lease? 625
- **25-2** Why Lease? 626

  Sensible Reasons for Leasing/Some Dubious Reasons for Leasing
- **25-3** Operating Leases 630 Example of an Operating Lease/Lease or Buy?
- **25-4** Valuing Financial Leases 632

Example of a Financial Lease/Who Really Owns the Leased Asset?/Leasing and the Internal Revenue Service/A First Pass at Valuing a Lease Contract/The Story So Far

### **25-5** When Do Financial Leases Pay? 637 *Leasing Around the World*

**25-6** Leveraged Leases 638

Summary 640 • Further Reading 640 Problem Sets 641

#### Part Eight Risk Management

### 26 Managing Risk 645

#### **26-1** Why Manage Risk? 645

Reducing the Risk of Cash Shortfalls or Financial Distress/Agency Costs May Be Mitigated by Risk Management/The Evidence on Risk Management

- **26-2** Insurance 648

  How BP Changed Its Insurance Strategy
- **26-3** Reducing Risk with Options 651
- 26-4 Forward and Futures Contracts 652

  A Simple Forward Contract/Futures Exchanges/The
  Mechanics of Futures Trading/Trading and Pricing
  Financial Futures Contracts/Spot and Futures
  Prices—Commodities/More about Forward
  Contracts/Homemade Forward Rate Contracts
- **26-5** Swaps 660

Interest Rate Swaps/Currency Swaps/Total Return Swaps

- 26-6 How to Set Up a Hedge 664
- **26-7** Is "Derivative" a Four-Letter Word? 666

Summary 668 • Further Reading 669

Problem Sets 670 • Real-Time Data Analysis 675

### **27** Managing International Risks 676

- **27-1** The Foreign Exchange Market 676
- 27-2 Some Basic Relationships 678
  Interest Rates and Exchange Rates/The Forward
  Premium and Changes in Spot Rates/Changes in the
  Exchange Rate and Inflation Rates/Interest Rates
  and Inflation Rates/Is Life Really That Simple?
- **27-3** Hedging Currency Risk 687

  Transaction Exposure and Economic Exposure

### **27-4** Exchange Risk and International Investment Decisions 690

The Cost of Capital for International Investments/ Do Some Countries Have a Lower Interest Rate?

#### 27-5 Political Risk 694

Summary 696 • Further Reading 696 Problem Sets 698 • Real-Time Data Analysis 701 Mini-Case: Exacta, s.a. 702

### I Part Nine Financial Planning and Working Capital Management

### 28 Financial Analysis 704

- 28-1 Financial Statements 704
- **28-2** Lowe's Financial Statements 705

  The Balance Sheet/The Income Statement
- 28-3 Measuring Lowe's Performance 708

  Economic Value Added (EVA)/Accounting Rates of
  Return/Problems with EVA and Accounting Rates
  of Return
- 28-4 Measuring Efficiency 713
- **28-5** Analyzing the Return on Assets: the Du Pont System 714

  The Du Pont System
- **28-6** Measuring Leverage 716

  Leverage and the Return on Equity
- **28-7** Measuring Liquidity 718
- **28-8** Interpreting Financial Ratios 720

Summary 724 • Further Reading 724 Problem Sets 725

### 29 Financial Planning 731

- **29-1** Links between Long-Term and Short-Term Financing Decisions 731
- **29-2** Tracing Changes in Cash 734 *The Cash Cycle*
- **29-3** Cash Budgeting 737

  Preparing the Cash Budget: Inflows/Preparing the Cash Budget: Outflows

### 29-4 The Short-Term Financing Plan 740 Options for Short-Term Financing/Dynamic's

Financing Plan/Evaluating the Plan/A Note on Short-Term Financial Planning Models

#### 29-5 Long-term Financial Planning 743

Why Build Financial Plans?/A Long-Term Financial Planning Model for Dynamic Mattress/ Pitfalls in Model Design/Choosing a Plan

**29-6** Growth and External Financing 748 Summary 749 • Further Reading 750 Problem Sets 750 • Real-Time Data Analysis 756

### **30** Working Capital Management 757

- **30-1** Inventories 758
- **30-2** Credit Management 760

  Terms of Sale/The Promise to Pay/Credit

  Analysis/The Credit Decision/Collection Policy
- **30-3** Cash 766

How Purchases Are Paid For/Speeding up Check Collections/International Cash Management/Paying for Bank Services

#### **30-4** Marketable Securities 771

Calculating the Yield on Money-Market Investments/Yields on Money-Market Investments/The International Money Market/Money-Market Instruments

**30-5** Sources of Short-Term Borrowing 777

Bank Loans/Commercial Paper/Medium-Term

Notes

Summary 782 • Further Reading 784 Problem Sets 784 • Real-Time Data Analysis 791

### Part Ten Mergers, Corporate Control, and Governance

### **31** Mergers 792

### **31-1** Sensible Motives for Mergers 792

Economies of Scale/Economies of Vertical Integration/Complementary Resources/Surplus Funds/Eliminating Inefficiencies/Industry Consolidation

### **31-2** Some Dubious Reasons for Mergers 798 Diversification/Increasing Earnings per Share: The Bootstrap Game/Lower Financing Costs

# 31-3 Estimating Merger Gains and Costs 801 Right and Wrong Ways to Estimate the Benefits of Mergers/More on Estimating Costs—What If the Target's Stock Price Anticipates the Merger?/Estimating Cost When the Merger Is Financed by Stock/Asymmetric Information

#### 31-4 The Mechanics of a Merger 805

Mergers, Antitrust Law, and Popular Opposition/ The Form of Acquisition/Merger Accounting/Some Tax Considerations

### **31-5** Proxy Fights, Takeovers, and the Market for Corporate Control 808

Proxy Contests/Takeovers/Oracle Bids for PeopleSoft/Takeover Defenses/Who Gains Most in Mergers?

#### 31-6 Mergers and the Economy 814

Merger Waves/Do Mergers Generate Net Benefits?

Summary 816 • Further Reading 817 Problem Sets 817 • Appendix: Conglomerate Mergers and Value Additivity 820

### 32 Corporate Restructuring 822

### **32-1** Leveraged Buyouts 822 RJR Nabisco/Barbarians at the Gate?/Leveraged Restructurings/LBOs and Leveraged Restructurings

- **32-2** Fusion and Fission in Corporate Finance 827 Spin-offs/Carve-outs/Asset Sales/Privatization and Nationalization
- **32-3** Private Equity 831

  Private-Equity Partnerships/Are Private-Equity
  Funds Today's Conglomerates?
- **32-4** Bankruptcy 837

  Is Chapter 11 Efficient?/Workouts/Alternative
  Bankruptcy Procedures

Summary 842 • Further Reading 843 Problem Sets 844

### 33 Governance and Corporate Control around the World 846

### **33-1** Financial Markets and Institutions 846 Investor Protection and the Development of Financial Markets

# 33-2 Ownership, Control, and Governance 851 Ownership and Control in Japan/Ownership and Control in Germany/European Boards of Directors/Ownership and Control in Other Countries/Conglomerates Revisited

# **33-3** Do These Differences Matter? 859 Risk and Short-termism/Growth Industries and Declining Industries/Transparency and Governance

Summary 863 • Further Reading 864 Problem Sets 864

#### ■ Part Eleven Conclusion

### 34 Conclusion: What We Do and Do not Know about Finance 866

34-1 What We Do Know: The Seven Most Important Ideas in Finance 866
1. Net Present Value/2. The Capital Asset Pricing Model/3. Efficient Capital Markets/4. Value Additivity and the Law of Conservation of Value/5. Capital Structure Theory/6. Option Theory/7. Agency Theory

### **34-2** What We Do Not Know: 10 Unsolved Problems in Finance 869

1. What Determines Project Risk and Present Value?/2. Risk and Return—What Have We Missed?/3. How Important Are the Exceptions to the Efficient-Market Theory?/4. Is Management an Off-Balance-Sheet Liability?/5. How Can We Explain the Success of New Securities and New Markets?/6. How Can We Resolve the Payout Controversy?/7. What Risks Should a Firm Take?/8. What Is the Value of Liquidity?/9. How Can We Explain Merger Waves?/10. Why Are Financial Systems So Prone to Crisis?

#### **34-3** A Final Word 875

**→ xxviii** Contents

Appendix: Answers to Select Basic Problems A

Glossary G

Index I-1

Note: Present value tables are available on the book's

Web site, www.mhhe.com/bma.