briefcontents

Preface		V
Part 1	Fundamental Concepts of Financial Management	1
Chapter 1	An Overview of Financial Management	2
Web Extensions	and the Financial Environment 1A, 1B, 1C	2
Chapter 2 Web Extensions	Time Value of Money 2A, 2B, 2C	37
Chapter 3 Web Extension	Financial Statements, Cash Flow, and Taxes 3A	83
Chapter 4	Analysis of Financial Statements	122
Part 2	Securities and Their Valuation	155
Chapter 5 Web Extensions	Bonds, Bond Valuation, and Interest Rates 5A, 5B, 5C, 5D	156
Chapter 6 Web Extensions	Risk, Return, and the Capital Asset Pricing Model 6A, 6B	200
Chapter 7	Portfolio Theory and Other Asset Pricing Models	241
Chapter 8 Web Extension	Stocks, Stock Valuation, and Stock Market Equilibrium 8A	280
Chapter 9 Web Extension	Financial Options and Applications in Corporate Finance 9A	313
Part 3	Projects and Their Valuation	339
Chapter 10 Web Extensions	The Cost of Capital 10A, 10B	340
Chapter 11 Web Extensions	The Basics of Capital Budgeting: Evaluating Cash Flows 11A, 11B	377
Chapter 12 Web Extensions	Cash Flow Estimation and Risk Analysis 12A, 12B	415
Chapter 13 Web Extensions	Real Options 13A, 13B	457
Part 4	Corporate Valuation and Governance	485
Chapter 14 Web Extensions	Financial Planning and Forecasting Financial Statements 14A, 14B	486
Chapter 15	Corporate Valuation, Value-Based Management, and Corporate Governance	517

Part 5	Strategic Financing Decisions	563
Chapter 16 Web Extension	Capital Structure Decisions: The Basics 16A	564
Chapter 17	Capital Structure Decisions: Extensions	606
Chapter 18	Distributions to Shareholders: Dividends and Repurchases	639
Part 6	Tactical Financing Decisions	673
Chapter 19 Web Extension	Initial Public Offerings, Investment Banking, and Financial Restructuring 19A	674
Chapter 20 Web Extensions	Lease Financing 20A, 20B, 20C	714
Chapter 21 Web Extension	Hybrid Financing: Preferred Stock, Warrants, and Convertibles 21A	742
Part 7	Special Topics	773
Chapter 22 Web Extension	Working Capital Management 22A	774
Chapter 23 Web Extension	Derivatives and Risk Management 23A	818
Chapter 24 Web Extensions	Bankruptcy, Reorganization, and Liquidation 24A, 24B	851
Chapter 25 Web Extension	Mergers, LBOs, Divestitures, and Holding Companies 25A	881
Chapter 26	Multinational Financial Management	929
Appendixes		0.40
Appendix A	Solutions to Self-Test Problems Answers to End-of-Chapter Problems	969 1002
Appendix B Appendix C	Selected Equations and Data	1002
Appendix D	Values of the Areas under the Standard Normal Distribution Function	1026
Glossary		1027
Name Index		1046
Subject Index		1050
Web Chapters		
Chapter 27	Providing and Obtaining Credit	
Chapter 28 Chapter 29	Advanced Issues in Cash Management and Inventory Control Pension Plan Management	
Chapter 30	Financial Management in Not-for-Profit Businesses	
T	0	

contents

Preface v

Part 1

Fundamental Concepts of Financial Management 1

Chapter 1

An Overview of Financial Management and the Financial Environment 2

The Five-Minute MBA 3

The Corporate Life Cycle 4

The Primary Objective of the Corporation: Value Maximization 7

Box: Ethics for Individuals and Businesses 9

Box: Corporate Scandals and Maximizing Stock Price 11

An Overview of the Capital Allocation Process 12

Financial Securities and the Cost of Money 14

Financial Institutions 19

Types of Financial Markets 22

Trading Procedures in Financial Markets 23

Types of Stock Market Transactions 24

Box: Rational Exuberance 25

The Secondary Stock Markets 25

Box: Measuring the Market 27

Stock Market Returns 29

A Preview of What Is Ahead 31

e-Resources 32

Summary 32

Web Extensions

1A: A Closer Look at Markets: Securitization and Social Welfare

1B: An Overview of Derivatives

1C: A Closer Look at the Stock Markets

Chapter 2

Time Value of Money 37

Time Lines 38

Future Values 39

Box: Corporate Valuation and the Time Value of Money 40

Box: The Power of Compound Interest 44

Present Values 46

Finding the Interest Rate, I 48

Finding the Number of Years, N 49

Annuities 50

Future Value of an Ordinary Annuity 51

Future Value of an Annuity Due 53

Present Value of an Ordinary Annuity and of an Annuity Due 54

Finding Annuity Payments, Periods, and Interest Rates 56

Perpetuities 58

Uneven Cash Flows 59

Future Value of an Uneven Cash Flow Stream 62

Solving for I with Uneven Cash Flows 63

Semiannual and Other Compounding Periods 64

Box: Using the Internet for Personal Financial Planning 68

Fractional Time Periods 68

Amortized Loans 69

Growing Annuities 70

Summary 72

Web Extensions

2A: Derivation of Annuity Formulas

2B: Continuous Compounding and Discounting

2C: The Tabular Approach

Chapter 3

Financial Statements, Cash Flow, and Taxes 83

Financial Statements and Reports 84

Box: Corporate Valuation and Financial Statements 85

The Balance Sheet 85

The Income Statement 88

Statement of Retained Earnings 90

Net Cash Flow 91

Box: Financial Analysis on the Internet 92

Statement of Cash Flows 93

Modifying Accounting Data for Managerial Decisions 95

Box: Financial Bamboozling: How to Spot It 99

MVA and EVA 103

Box: Sarbanes-Oxley and Financial Fraud 106

The Federal Income Tax System 107

Summary 112

Web Extension

3A: Individual Taxes

Chapter 4

Analysis of Financial Statements 122

Ratio Analysis 123

Liquidity Ratios 123

Box: Corporate Valuation and Analysis of Financial Statements 123

Asset Management Ratios 126

Debt Management Ratios 129

Box: International Accounting Differences Create Headaches for Investors 131

Profitability Ratios 132 Market Value Ratios 134 Trend Analysis, Common Size Analysis, and Percent Change Analysis 137

Tying the Ratios Together: The Du Pont Equation 140

Comparative Ratios and Benchmarking 141

Box: Ratio Analysis on the Web 143

Uses and Limitations of Ratio Analysis 143

Looking Beyond the Numbers 144

Summary 145

Part 2

Securities and Their Valuation 155

Chapter 5

Bonds, Bond Valuation, and Interest Rates 156

Who Issues Bonds? 157

Box: Corporate Valuation and Risk 158

Key Characteristics of Bonds 158

Bond Valuation 163

Bond Yields 167

Changes in Bond Values Over Time 169

Box: Drinking Your Coupons 172

Bonds with Semiannual Coupons 173

The Determinants of Market Interest Rates 174

The Real Risk-Free Rate of Interest, r* 175

The Inflation Premium (IP) 175

The Nominal, or Quoted, Risk-Free Rate of Interest, $r_{\mbox{\tiny RF}}$ 177

The Default Risk Premium (DRP) 177

The Liquidity Premium (LP) 183

The Maturity Risk Premium (MRP) 183

The Term Structure of Interest Rates 186

Junk Bonds 188

Bankruptcy and Reorganization 189

Summary 190

Web Extensions

5A: A Closer Look at Zero Coupon Bonds

5B: A Closer Look at TIPS: Treasury Inflation-Protected Securities

5C: Bond Risk and Duration

5D: The Pure Expectations Theory and Estimation of Forward Rates

Chapter 6

Risk, Return, and the Capital Asset Pricing Model 200

Investment Returns 201

Box: Corporate Valuation and Risk 202

Stand-Alone Risk 202

Box: The Tradeoff between Risk and Return 210

Risk in a Portfolio Context 211

Box: The Benefits of Diversifying Overseas 218

Calculating Beta Coefficients 223

The Relationship between Risk and Rates of Return 226

The CAPM, Risk, and Return: Is Something Missing? 231 Summary 232

Web Extensions

6A: Continuous Probability Distributions

6B: Calculating Beta Coefficients with a Financial Calculator

Chapter 7

Portfolio Theory and Other Asset Pricing Models 241

Efficient Portfolios 242

Box: Corporate Valuation and Risk 243

Choosing the Optimal Portfolio 246

The Basic Assumptions of the Capital Asset Pricing Model 249

The Capital Market Line and the Security Market Line 250

Calculating Beta Coefficients 255

Empirical Tests of the CAPM 262

Arbitrage Pricing Theory 264

The Fama-French Three-Factor Model 267

An Alternative Theory of Risk and Return: Behavioral Finance 270

Summary 272

Chapter 8

Stocks, Stock Valuation, and Stock Market Equilibrium 280

Legal Rights and Privileges of Common Stockholders 281

Box: Corporate Valuation and Stock Risk 282

Types of Common Stock 282

Stock Market Reporting 284

Common Stock Valuation 285

Constant Growth Stocks 287

Expected Rate of Return on a Constant Growth Stock 291

Valuing Stocks That Have a Nonconstant Growth Rate 293

Stock Valuation by the Free Cash Flow Approach 296

Market Multiple Analysis 297

Preferred Stock 297

Stock Market Equilibrium 298

The Efficient Markets Hypothesis 301

Summary 305

Web Extension

8A: Derivation of Valuation Equations

Chapter 9

Financial Options and Applications in Corporate Finance 313

Financial Options 314

Box: Financial Reporting for Employee Stock Options 319

Introduction to Option Pricing Models: The Binomial Approach 320

The Black-Scholes Option Pricing Model (OPM) 325

Box: Taxes and Stock Options 329

The Valuation of Put Options 330

Applications of Option Pricing in Corporate Finance 332

Summary 334

Web Extension

9A: The Binomial Approach

Part 3

Projects and Their Valuation 339

Chapter 10

The Cost of Capital 340

The Weighted Average Cost of Capital 341

Box: Corporate Valuation and the Cost of Capital 341

Cost of Debt, $r_d(1 - T)$ 342

Cost of Preferred Stock, r_{ps} 344

Cost of Common Stock, r_s 345

The CAPM Approach 346

Dividend-Yield-Plus-Growth-Rate, or Discounted Cash Flow (DCF), Approach 352

Bond-Yield-Plus-Risk-Premium Approach 355

Comparison of the CAPM, DCF, and Bond-Yield-Plus-Risk-Premium Methods 355

Adjusting the Cost of Stock for Flotation Costs 356

Composite, or Weighted Average, Cost of Capital, WACC 358

Box: Global Variations in the Cost of Capital 359

Factors That Affect the Weighted Average Cost of Capital 360

Adjusting the Cost of Capital for Risk 361

Privately Owned Firms and Small Businesses 364

Four Mistakes to Avoid 365

Summary 366

Web Extensions

10A: Estimating Growth Rates

10B: The Cost of Equity in the Nonconstant Dividend Growth Model

Chapter 11

The Basics of Capital Budgeting: Evaluating Cash Flows 377

Overview of Capital Budgeting 378

Box: Corporate Valuation and Capital Budgeting 378

Net Present Value (NPV) 380

Internal Rate of Return (IRR) 382

Comparison of the NPV and IRR Methods 384

Multiple IRRs 387

Modified Internal Rate of Return (MIRR) 389

Profitability Index 391

Payback Methods 391

Conclusions on Capital Budgeting Methods 394

Business Practices 396

Special Applications of Cash Flow Evaluation 397

The Optimal Capital Budget 400

Summary 402

Web Extensions

11A: The Accounting Rate of Return (ARR)

11B: The Marginal Cost of Capital and the Optimal Capital Budget

Cash Flow Estimation and Risk Analysis 415

Estimating Cash Flows 416

Box: Corporate Valuation, Cash Flows, and Risk Analysis 416

Project Analysis: An Example 418

Issues in Project Analysis 423

Depreciation 426

Adjusting for Inflation 429

Project Risk Analysis: Techniques for Measuring Stand-Alone Risk 431

Box: Capital Budgeting Practices in the Asia/Pacific Region 436

Project Risk Conclusions 440

Incorporating Project Risk into Capital Budgeting 441

Managing Risk through Phased Decisions: Decision Trees 441

Introduction to Real Options 444

Summary 446

Web Extensions

12A: Replacement Project Analysis

12B: Certainty Equivalents and Risk-Adjusted Discount Rates

Chapter 13

Real Options 457

Valuing Real Options 458

The Investment Timing Option: An Illustration 459

The Growth Option: An Illustration 470

Concluding Thoughts on Real Options 476

Box: Growth Options at Dot-Com Companies 477

Summary 478

Web Extensions

13A: The Abandonment Real Option

13B: Risk-Neutral Valuation

Part 4

Corporate Valuation and Governance 485

Chapter 14

Financial Planning and Forecasting Financial Statements 486

Overview of Financial Planning 487

Box: Corporate Valuation and Financial Planning 488

Sales Forecast 489

The AFN Formula 491

The Forecasted Financial Statement (FFS) Method 493

Forecasting Financial Requirements When the Balance Sheet Ratios Are Subject to

Change 505

Summary 508

Web Extensions

14A: Financing Feedbacks

14B: Advanced Techniques for Forecasting Financial Statements Accounts

Corporate Valuation, Value-Based Management, and Corporate Governance 517

Overview of Corporate Valuation 518

Box: Corporate Valuation: Putting the Pieces Together 519

The Corporate Valuation Model 519

Value-Based Management 528

Box: Value-Based Management in Practice 536 Managerial Behavior and Shareholder Wealth 537

Corporate Governance 538

Box: The Sarbanes-Oxley Act of 2002 and Corporate Governance 544

Box: International Corporate Governance 546 Employee Stock Ownership Plans (ESOPs) 548

Summary 551

Part 5

Strategic Financing Decisions 563

Chapter 16

Capital Structure Decisions: The Basics 564

A Preview of Capital Structure Issues 565

Box: Corporate Valuation and Capital Structure 566

Business Risk and Financial Risk 567

Capital Structure Theory 574

Box: Yogi Berra on the MM Proposition 576 Capital Structure Evidence and Implications 582 Box: Taking a Look at Global Capital Structures 584 Estimating the Optimal Capital Structure 586

Summary 597

Web Extension

16A: Degree of Leverage

Chapter 17

Capital Structure Decisions: Extensions 606

Capital Structure Theory: Arbitrage Proofs of the Modigliani-Miller Models 607

Box: Corporate Valuation and Capital Structure Decisions 608

Introducing Personal Taxes: The Miller Model 617 Criticisms of the MM and Miller Models 620

An Extension to the MM Model: Nonzero Growth and a Risky Tax Shield 622

Risky Debt and Equity as an Option 626 Capital Structure Theory: Our View 630

Summary 632

Chapter 18

Distributions to Shareholders: Dividends and Repurchases 639

The Level of Distributions and Firm Value 640

Box: Corporate Valuation and Distributions to Shareholders 641

Box: Dividend Yields Around the World 644

Clientele Effect 645

Information Content, or Signaling, Hypothesis 646

Implications for Dividend Stability 647

Setting the Target Distribution Level: The Residual Distribution Model 647

Distributions in the Form of Dividends 651

Distributions through Stock Repurchases 653

Comparison of Dividends and Repurchases 657

Other Factors Influencing Distributions 659

Overview of the Distribution Policy Decision 660

Stock Splits and Stock Dividends 662

Dividend Reinvestment Plans 664

Summary 665

Part 6

Tactical Financing Decisions 673

Chapter 19

Initial Public Offerings, Investment Banking, and Financial Restructuring 674

The Financial Life Cycle of a Start-up Company 675

Box: Corporate Valuation, IPOs, and Financial Restructuring 675

The Decision to Go Public: Initial Public Offerings 676

The Process of Going Public 678

Equity Carve-Outs: A Special Type of IPO 686

Non-IPO Investment Banking Activities 688

The Decision to Go Private 691

Managing the Maturity Structure of Debt 693

Refunding Operations 696

Box: TVA Ratchets Down Its Interest Expenses 701

Managing the Risk Structure of Debt 703

Box: Bowie Bonds Ch-Ch-Change Asset Securitization 706

Summary 706

Web Extension

19A: Rights Offerings

Chapter 20

Lease Financing 714

Types of Leases 715

Tax Effects 718

Financial Statement Effects 719

Evaluation by the Lessee 721

Evaluation by the Lessor 726

Other Issues in Lease Analysis 729

Box: What You Don't Know Can Hurt You! 730

Box: Lease Securitization 731

Other Reasons for Leasing 732

Summary 734

Web Extensions

20A: Percentage Cost Analysis

20B: Leasing Feedback 20C: Leveraged Leases

Hybrid Financing: Preferred Stock, Warrants, and Convertibles 742

Preferred Stock 743

Box: Where's the Dividend? 744

Box: MIPS, QUIPS, TOPrS, and QUIDS: A Tale of Two Perspectives 745

Warrants 748

Convertible Securities 754

A Final Comparison of Warrants and Convertibles 762

Reporting Earnings When Warrants or Convertibles Are Outstanding 763

Summary 764

Web Extension

21A: Calling Convertible Issues

Part 7

Special Topics 773

Chapter 22

Working Capital Management 774

The Cash Conversion Cycle 775

Box: Corporate Valuation and Working Capital Management 775

Alternative Net Operating Working Capital Policies 780

Cash Management 781

The Cash Budget 782

Box: The CFO Cash Management Scorecard 785

Cash Management Techniques 786

Inventory 788

Receivables Management 789

Box: Supply Chain Management 790

Accruals and Accounts Payable (Trade Credit) 794

Alternative Short-Term Financing Policies 797

Short-Term Investments: Marketable Securities 799

Short-Term Financing 800

Short-Term Bank Loans 801

Commercial Paper 803

Use of Security in Short-Term Financing 804

Summary 805

Web Extension

22A: Secured Short-Term Financing

Chapter 23

Derivatives and Risk Management 818

Reasons to Manage Risk 819

Box: Corporate Valuation and Risk Management 820

Background on Derivatives 822

Derivatives in the News 824

Other Types of Derivatives 827

Corporate Risk Management 834

Box: Microsoft's Goal: Manage Every Risk! 836

Using Derivatives to Reduce Risks 837

Box: Risk Management in the Cyber Economy 840

Summary 845

Web Extension

23A: Risk Management with Insurance

Chapter 24

Bankruptcy, Reorganization, and Liquidation 851

Financial Distress and Its Consequences 852

Issues Facing a Firm in Financial Distress 854

Settlements without Going through Formal Bankruptcy 854

Federal Bankruptcy Law 857

Reorganization in Bankruptcy 858

Liquidation in Bankruptcy 867

Other Motivations for Bankruptcy 871

Some Criticisms of Bankruptcy Laws 872

Other Topics in Bankruptcy 873

Summary 873

Web Extensions

24A: Anatomies of Two Business Failures 24B: Multiple Discriminant Analysis

Chapter 25

Mergers, LBOs, Divestitures, and Holding Companies 881

Rationale for Mergers 882

Types of Mergers 885

Level of Merger Activity 886

Hostile versus Friendly Takeovers 887

Merger Regulation 888

Overview of Merger Analysis 890

The Adjusted Present Value (APV) Approach 891

The Free Cash Flow to Equity (FCFE) Approach 894

Illustration of the Three Valuation Approaches for a Constant Capital Structure 896

Setting the Bid Price 901

Analysis When There Is a Permanent Change in Capital Structure 902

Taxes and the Structure of the Takeover Bid 904

Box: Tempest in a Teapot? 905

Financial Reporting for Mergers 908

Analysis for a "True Consolidation" 910

The Role of Investment Bankers 911

Who Wins: The Empirical Evidence 914

Box: Merger Mistakes 915

Corporate Alliances 916

Leveraged Buyouts 917

Divestitures 918

Holding Companies 920

Summary 921

Web Extension

25A: Projecting Consistent Debt and Interest Expenses

Multinational Financial Management 929

Multinational, or Global, Corporations 930

Multinational versus Domestic Financial Management 931

Exchange Rates 933

Exchange Rates and International Trade 936

The International Monetary System and Exchange Rate Policies 938

Trading in Foreign Exchange 942

Interest Rate Parity 943

Purchasing Power Parity 945

Box: Hungry for a Big Mac? Go to China! 946

Inflation, Interest Rates, and Exchange Rates 948

International Money and Capital Markets 949

Box: Stock Market Indices around the World 951

Multinational Capital Budgeting 952

International Capital Structures 956

Multinational Working Capital Management 958

Summary 961

Appendixes

Appendix A

Solutions to Self-Test Problems 969

Appendix B

Answers to End-of-Chapter Problems 1002

Appendix C

Selected Equations and Data 1011

Appendix D

Values of the Areas under the Standard Normal Distribution Function 1026

Glossary 1027

Name Index 1046

Subject Index 1050

Web Chapters

Chapter 27

Providing and Obtaining Credit

Chapter 28

Advanced Issues in Cash Management and Inventory Control

Chapter 29

Pension Plan Management

Chapter 30

Financial Management in Not-for-Profit Businesses