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Dedicated to our good friend and mentor,
Dr. Lawrence J. Gitman,
who trusted us as coauthors and successors

CJZ
SBS
Brief Contents

Contents ix
About the Authors xxv
Preface xxvii
Acknowledgments xl

PART 1 Introduction to Managerial Finance 1
   1 The Role of Managerial Finance 2
   2 The Financial Market Environment 39

PART 2 Financial Tools 71
   3 Financial Statements and Ratio Analysis 72
   4 Long- and Short-Term Financial Planning 137
   5 Time Value of Money 183

PART 3 Valuation of Securities 243
   6 Interest Rates and Bond Valuation 244
   7 Stock Valuation 291

PART 4 Risk and the Required Rate of Return 327
   8 Risk and Return 328
   9 The Cost of Capital 376

PART 5 Long-Term Investment Decisions 405
   10 Capital Budgeting Techniques 406
   11 Capital Budgeting Cash Flows and Risk Refinements 445

PART 6 Long-Term Financial Decisions 505
   12 Leverage and Capital Structure 506
   13 Payout Policy 558

PART 7 Short-Term Financial Decisions 593
   14 Working Capital and Current Assets Management 594
   15 Current Liabilities Management 636

Appendix A-1
Glossary G-1
Index I-1
Contents

About the Authors  xxv
Preface  xxvii
Acknowledgments  xl

PART 1  Introduction to Managerial Finance  1

1  The Role of Managerial Finance  2

1.1  Finance and the Firm  3
What Is Finance?  3
What Is a Firm?  4
What Is the Goal of the Firm?  4
The Role of Business Ethics  8

➔ FOCUS ON PRACTICE:
Must Search Engines Screen Out Fake News?  10
➔ REVIEW QUESTIONS  10

1.2  Managing the Firm  10
The Managerial Finance Function  11
➔ REVIEW QUESTIONS  19

1.3  Organizational Forms, Taxation, and the Principal-Agent Relationship  19
Legal Forms of Business Organization  19
Agency Problems and Agency Costs  26
Corporate Governance  26
➔ REVIEW QUESTIONS  30

1.4  Developing Skills for Your Career  30
Critical Thinking  30
Communication and Collaboration  31
Financial Computing Skills  31

Summary  31
Self-Test Problem  33
Warm-Up Exercises  33
Problems  35
Spreadsheet Exercise  38
2
The Financial Market Environment 39

2.1 Financial Institutions 40
Commercial Banks, Investment Banks, and the Shadow Banking System 40
→ REVIEW QUESTIONS 42

2.2 Financial Markets 42
The Relationship Between Institutions and Markets 42
The Money Market 43
The Capital Market 44
The Role of Capital Markets 48
→ REVIEW QUESTIONS 51

in practice FOCUS ON ETHICS:
Should Insider Trading Be Legal? 50
→ REVIEW QUESTIONS 51

2.3 Regulation of Financial Markets and Institutions 51
Regulations Governing Financial Institutions 51
Regulations Governing Financial Markets 52
→ REVIEW QUESTIONS 53

2.4 The Securities Issuing Process 53
Issuing Common Stock 53
→ REVIEW QUESTIONS 61

2.5 Financial Markets in Crisis 61
Financial Institutions and Real Estate Finance 62
Spillover Effects and Recovery from the Great Recession 64
→ REVIEW QUESTIONS 65

Summary 65
Self-Test Problem 67
Warm-Up Exercises 68
Problems 68
Spreadsheet Exercise 70
### PART 2 Financial Tools 71

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>The Stockholders’ Report</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>The Letter to Stockholders</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>The Four Key Financial Statements</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>FOCUS ON ETHICS: Earnings Shenanigans</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>Notes to the Financial Statements</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>Consolidating International Financial Statements</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTIONS</strong></td>
<td>81</td>
</tr>
<tr>
<td>3.2</td>
<td>Using Financial Ratios</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Interested Parties</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Types of Ratio Comparisons</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Cautions About Using Ratio Analysis</td>
<td>85</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTIONS</strong></td>
<td>86</td>
</tr>
<tr>
<td>3.3</td>
<td>Liquidity Ratios</td>
<td>87</td>
</tr>
<tr>
<td></td>
<td>Current Ratio</td>
<td>87</td>
</tr>
<tr>
<td></td>
<td>Quick (Acid-Test) Ratio</td>
<td>89</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTIONS</strong></td>
<td>90</td>
</tr>
<tr>
<td>3.4</td>
<td>Activity Ratios</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>Inventory Turnover</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>Average Collection Period</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>Average Payment Period</td>
<td>93</td>
</tr>
<tr>
<td></td>
<td>Total Asset Turnover</td>
<td>93</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTION</strong></td>
<td>94</td>
</tr>
<tr>
<td>3.5</td>
<td>Debt Ratios</td>
<td>94</td>
</tr>
<tr>
<td></td>
<td>Debt Ratio</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>Debt-to-Equity Ratio</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>Times Interest Earned Ratio</td>
<td>97</td>
</tr>
<tr>
<td></td>
<td>Fixed-Payment Coverage Ratio</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTIONS</strong></td>
<td>98</td>
</tr>
<tr>
<td>3.6</td>
<td>Profitability Ratios</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>Common-Size Income Statements</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>Gross Profit Margin</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td>Operating Profit Margin</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>Net Profit Margin</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>Earnings Per Share (EPS)</td>
<td>102</td>
</tr>
<tr>
<td></td>
<td>Return on Total Assets (ROA)</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td>Return on Equity (ROE)</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTIONS</strong></td>
<td>105</td>
</tr>
<tr>
<td>3.7</td>
<td>Market Ratios</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>Price/Earnings (P/E) Ratio</td>
<td>106</td>
</tr>
<tr>
<td></td>
<td>Market/Book (M/B) Ratio</td>
<td>108</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTION</strong></td>
<td>109</td>
</tr>
<tr>
<td>3.8</td>
<td>A Complete Ratio Analysis</td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>Summary of Whole Foods’ Financial Condition</td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>DuPont System of Analysis</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td><strong>REVIEW QUESTIONS</strong></td>
<td>116</td>
</tr>
<tr>
<td></td>
<td><strong>Summary</strong></td>
<td>116</td>
</tr>
<tr>
<td></td>
<td><strong>Self-Test Problems</strong></td>
<td>118</td>
</tr>
<tr>
<td></td>
<td><strong>Warm-Up Exercises</strong></td>
<td>119</td>
</tr>
<tr>
<td></td>
<td><strong>Problems</strong></td>
<td>120</td>
</tr>
<tr>
<td></td>
<td><strong>Spreadsheet Exercise</strong></td>
<td>135</td>
</tr>
</tbody>
</table>
4
Long- and Short-Term Financial Planning 137

4.1 The Financial Planning Process 138
   Long-Term (Strategic) Financial Plans 138
   Short-Term (Operating) Financial Plans 139
   ➔ REVIEW QUESTIONS 140

4.2 Measuring the Firm's Cash Flow 140
   Depreciation 140
   Depreciation Methods 141
   Developing the Statement of Cash Flows 143
   Free Cash Flow 148
   FOCUS ON ETHICS: Is Excess Cash Always a Good Thing? 149
   ➔ REVIEW QUESTIONS 150

4.3 Cash Planning: Cash Budgets 151
   The Sales Forecast 151
   Preparing the Cash Budget 151
   Evaluating the Cash Budget 156
   Coping with Uncertainty in the Cash Budget 157
   Cash Flow within the Month 159
   ➔ REVIEW QUESTIONS 159

4.4 Profit Planning: Pro Forma Statements 159
   Preceding Year's Financial Statements 160
   Sales Forecast 160
   ➔ REVIEW QUESTION 161

4.5 Preparing the Pro Forma Income Statement 161
   Considering Types of Costs and Expenses 162
   ➔ REVIEW QUESTIONS 163

4.6 Preparing the Pro Forma Balance Sheet 163
   ➔ REVIEW QUESTIONS 165

4.7 Evaluation of Pro Forma Statements 165
   ➔ REVIEW QUESTIONS 166

Summary 166
Self-Test Problems 168
Warm-Up Exercises 170
Problems 170
Spreadsheet Exercise 181
5 Time Value of Money 183

5.1 The Role of Time Value in Finance 184
Future Value Versus Present Value 184
Computational Tools 185
Basic Patterns of Cash Flow 187
→ REVIEW QUESTIONS 187

5.2 Single Amounts 188
Future Value of a Single Amount 188
Present Value of a Single Amount 192
→ REVIEW QUESTIONS 195
→ EXCEL REVIEW QUESTIONS 195

5.3 Annuities 196
Types of Annuities 196
Finding the Future Value of an Ordinary Annuity 197
Finding the Present Value of an Ordinary Annuity 198
Finding the Future Value of an Annuity Due 200
Finding the Present Value of an Annuity Due 201
Finding the Present Value of a Perpetuity 203
→ REVIEW QUESTIONS 204
→ EXCEL REVIEW QUESTIONS 204

5.4 Mixed Streams 205
Future Value of a Mixed Stream 205
Present Value of a Mixed Stream 207
→ REVIEW QUESTION 208
→ EXCEL REVIEW QUESTION 208

5.5 Compounding Interest More Frequently Than Annually 208
Semiannual Compounding 208
Quarterly Compounding 209
A General Equation for Compounding 210
Using Computational Tools for Compounding 210
Continuous Compounding 211
Nominal and Effective Annual Rates of Interest 212
→ REVIEW QUESTIONS 214

5.6 Special Applications of Time Value 215
Determining Deposits Needed to Accumulate a Future Sum 215
Loan Amortization 216
Finding Interest or Growth Rates 218
Finding an Unknown Number of Periods 220
→ REVIEW QUESTIONS 222
→ EXCEL REVIEW QUESTIONS 222

Summary 223
Self-Test Problems 224
Warm-Up Exercises 225
Problems 226
Spreadsheet Exercise 242
PART 3  Valuation of Securities  243

6  Interest Rates and Bond Valuation  244

6.1  Interest Rates and Required Returns  245
  Interest Rate Fundamentals  245
  Term Structure of Interest Rates  250
  Risk Premiums: Issuer and Issue Characteristics  255
  ➔ REVIEW QUESTIONS  256

6.2  Government and Corporate Bonds  257
  Legal Aspects of Corporate Bonds  257
  Cost of Bonds to the Issuer  259
  General Features of a Bond Issue  259
  Bond Yields  260
  Bond Prices  260
  Bond Ratings  261
  Common Types of Bonds  261
  International Bond Issues  263
  ➔ REVIEW QUESTIONS  264
  ➔ FOCUS ON ETHICS: “Can Bond Ratings Be Trusted?”  263

6.3  Valuation Fundamentals  265
  Key Inputs  265
  Basic Valuation Model  266
  ➔ REVIEW QUESTIONS  267

6.4  Bond Valuation  267
  Bond Fundamentals  268
  Bond Valuation  268
  Semiannual Interest Rates and Bond Values  270
  Changes in Bond Values  272
  Yield to Maturity (YTM)  275
  ➔ REVIEW QUESTIONS  277
  ➔ EXCEL REVIEW QUESTIONS  277

Summary  277
Self-Test Problems  279
Warm-Up Exercises  280
Problems  281
Spreadsheet Exercise  290
7
Stock Valuation 291

7.1 Differences Between Debt and Equity 292
Voice in Management 292
Claims on Income and Assets 292
Maturity 293
Tax Treatment 293
➔ REVIEW QUESTION 293

7.2 Common and Preferred Stock 293
Common Stock 294
Preferred Stock 297
➔ REVIEW QUESTIONS 299

7.3 Common Stock Valuation 299
Market Efficiency and Stock Valuation 299
Common Stock Dividend Valuation Model 301
➔ in practice
FOCUS ON PRACTICE:
Understanding Human Behavior Helps Us Understand Investor Behavior 302
Free Cash Flow Stock Valuation Model 306
Other Approaches to Common Stock Valuation 309
➔ REVIEW QUESTIONS 312

7.4 Decision Making and Common Stock Value 312
Changes in Expected Dividends 313
Changes in Risk 313
Combined Effect 314
➔ REVIEW QUESTIONS 314

Summary 315
Self-Test Problems 317
Warm-Up Exercises 317
Problems 318
Spreadsheet Exercise 326
PART 4 Risk and the Required Rate of Return 327

8 Risk and Return 328

8.1 Risk and Return Fundamentals 329
What Is Risk? 329
What Is Return? 329
Risk Preferences 331
→ REVIEW QUESTIONS 332

8.2 Risk of a Single Asset 332
Risk Assessment 332
Risk Measurement 335
→ REVIEW QUESTIONS 340

8.3 Risk of a Portfolio 340
Portfolio Return and Standard Deviation 340
Correlation 342
Diversification 343
Correlation, Diversification, Risk, and Return 345
International Diversification 346
in practice GLOBAL FOCUS:
An International Flavor to Risk Reduction 347
→ REVIEW QUESTIONS 348

8.4 Risk and Return: The Capital Asset Pricing Model (CAPM) 348
Types of Risk 348
The Model: CAPM 349
→ REVIEW QUESTIONS 358

Summary 358
Self-Test Problems 360
Warm-Up Exercises 361
Problems 362
Spreadsheet Exercise 374
9
The Cost of Capital 376

9.1 Overview of the Cost of Capital 377
  
  FOCUS ON ETHICS: The Cost of Capital Also Rises 377
  The Basic Concept 378
  Sources of Long-Term Capital 380
  ➔ REVIEW QUESTIONS 381

9.2 Cost of Long-Term Debt 381
  Net Proceeds 381
  Before-Tax Cost of Debt 382
  After-Tax Cost of Debt 384
  ➔ REVIEW QUESTIONS 385
  ➔ EXCEL REVIEW QUESTION 385

9.3 Cost of Preferred Stock 385
  Preferred Stock Dividends 386
  Calculating the Cost of Preferred Stock 386
  ➔ REVIEW QUESTION 386

9.4 Cost of Common Stock 386
  Finding the Cost of Common Stock Equity 387
  Cost of Retained Earnings 390
  ➔ REVIEW QUESTIONS 391

9.5 Weighted Average Cost of Capital 391
  Calculating the Weighted Average Cost of Capital (WACC) 391
  Capital Structure Weights 393
  ➔ REVIEW QUESTIONS 394

Summary 394
Self-Test Problem 395
Warm-Up Exercises 396
Problems 397
Spreadsheet Exercise 404
### 10 Capital Budgeting Techniques 406

<table>
<thead>
<tr>
<th>10.1 Overview of Capital Budgeting 407</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motives for Capital Expenditure 407</td>
</tr>
<tr>
<td>Steps in the Process 407</td>
</tr>
<tr>
<td>Basic Terminology 408</td>
</tr>
<tr>
<td>Capital Budgeting Techniques 409</td>
</tr>
<tr>
<td>➔ REVIEW QUESTION 410</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.2 Payback Period 410</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision Criteria 411</td>
</tr>
<tr>
<td>Pros and Cons of Payback Analysis 411</td>
</tr>
<tr>
<td>➔ REVIEW QUESTIONS 414</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.3 Net Present Value (NPV) 414</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision Criteria 415</td>
</tr>
<tr>
<td>NPV and the Profitability Index 416</td>
</tr>
<tr>
<td>NPV and Economic Value Added 417</td>
</tr>
<tr>
<td>➔ REVIEW QUESTIONS 418</td>
</tr>
<tr>
<td>➔ EXCEL REVIEW QUESTION 418</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.4 Internal Rate of Return (IRR) 419</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision Criteria 419</td>
</tr>
<tr>
<td>Calculating the IRR 419</td>
</tr>
<tr>
<td>➔ REVIEW QUESTIONS 422</td>
</tr>
<tr>
<td>➔ EXCEL REVIEW QUESTION 422</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.5 Comparing NPV and IRR Techniques 422</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Present Value Profiles 422</td>
</tr>
<tr>
<td>Conflicting Rankings 424</td>
</tr>
<tr>
<td>Which Approach Is Better? 427</td>
</tr>
<tr>
<td>➔ REVIEW QUESTIONS 429</td>
</tr>
</tbody>
</table>

### Summary 430

Self-Test Problem 431
Warm-Up Exercises 432
Problems 433
Spreadsheet Exercise 443
11 Capital Budgeting
Cash Flows and Risk
Refinements 445

11.1 Project Cash Flows 446
Major Cash Flow Types 446
Replacement Versus Expansion Decisions 447
Sunk Costs and Opportunity Costs 448

in practice FOCUS ON ETHICS:
Fumbling Sunk Costs 449

⇒ REVIEW QUESTIONS 450

11.2 Finding the Initial Investment 450
Installed Cost of the New Asset 451
After-Tax Proceeds from the Sale of the Old Asset 451
Change in Net Working Capital 454
Calculating the Initial Investment 455

⇒ REVIEW QUESTIONS 456

11.3 Finding the Operating Cash Flows 456
Interpreting the Term Cash Flows 456
Interpreting the Term After-Tax 457
Interpreting the Term Incremental 459

⇒ REVIEW QUESTIONS 461

11.4 Finding the Terminal Cash Flow 461
After-Tax Proceeds from the Sale of New and Old Assets 461
Change in Net Working Capital 462

⇒ REVIEW QUESTION 463

11.5 Risk in Capital Budgeting (Behavioral Approaches) 463
Breakeven Analysis 464
Scenario Analysis 466
Simulation 467

⇒ REVIEW QUESTIONS 468
⇒ EXCEL REVIEW QUESTION 468

11.6 Risk-Adjusted Discount Rates 468
Determining Risk-Adjusted Discount Rates (RADRs) 469
Applying RADRs 471
Portfolio Effects 474
RADRs in Practice 474

⇒ REVIEW QUESTIONS 476
⇒ EXCEL REVIEW QUESTION 476

11.7 Capital Budgeting Refinements 476
Comparing Projects with Unequal Lives 476
Recognizing Real Options 479
Capital Rationing 480

⇒ REVIEW QUESTIONS 483
⇒ EXCEL REVIEW QUESTION 483

Summary 483
Self-Test Problems 485
Warm-Up Exercises 487
Problems 489
Spreadsheet Exercises 504
PART 6  Long-Term Financial Decisions  505

12  Leverage and Capital Structure  506

12.1  Leverage  507
   Breakeven Analysis  508
   Operating Leverage  511
   Financial Leverage  515
   Total Leverage  519
   \textcolor{red}{in practice} FOCUS ON PRACTICE: Qualcomm's Leverage  514
   \textcolor{red}{\rightarrow REVIEW QUESTIONS}  521

12.2  The Firm's Capital Structure  521
   Types of Capital  522
   External Assessment of Capital Structure  522
   Capital Structure of Non–U.S. Firms  524
   Capital Structure Theory  525
   Optimal Capital Structure  533
   \textcolor{red}{\rightarrow REVIEW QUESTIONS}  535

12.3  EBIT–EPS Approach to Capital Structure  536
   Presenting a Financing Plan Graphically  536
   Comparing Alternative Capital Structures  537
   Considering Risk in EBIT–EPS Analysis  538
   Basic Shortcoming of EBIT–EPS Analysis  539
   \textcolor{red}{\rightarrow REVIEW QUESTION}  539

12.4  Choosing the Optimal Capital Structure  539
   Linkage  539
   Estimating Value  540
   Maximizing Value Versus Maximizing EPS  540
   Some Other Important Considerations  542
   \textcolor{red}{\rightarrow REVIEW QUESTIONS}  543

Summary  543
Self-Test Problems  544
Warm-Up Exercises  546
Problems  546
Spreadsheet Exercise  557
13 Payout Policy 558

13.1 The Basics of Payout Policy 559
   Elements of Payout Policy 559
   Trends in Earnings and Dividends 559
   Trends in Dividends and Share Repurchases 561
   ➔ REVIEW QUESTIONS 562

13.2 The Mechanics of Payout Policy 563
   Cash Dividend Payment Procedures 564
   Share Repurchase Procedures 566
   Tax Treatment of Dividends and Repurchases 567
   Dividend Reinvestment Plans 568
   Stock Price Reactions to Corporate Payouts 568
   ➔ REVIEW QUESTIONS 569

13.3 Relevance of Payout Policy 569
   Residual Theory of Dividends 569
   The Dividend Irrelevance Theory 570
   Arguments for Dividend Relevance 571
   ➔ REVIEW QUESTIONS 572

13.4 Factors Affecting Dividend Policy 572
   Legal Constraints 573
   Contractual Constraints 574
   Growth Prospects 574
   Owner Considerations 574
   Market Considerations 575
   ➔ REVIEW QUESTION 575

13.5 Types of Dividend Policies 575
   Constant-Payout-Ratio Dividend Policy 575
   Regular Dividend Policy 576
   Low-Regular-and-Extra Dividend Policy 577
   ➔ REVIEW QUESTION 577

13.6 Other Forms of Dividends 577
   Stock Dividends 578
   Stock Splits 579
   ➔ REVIEW QUESTIONS 581

Summary 581
Self-Test Problem 583
Warm-Up Exercises 583
Problems 584
Spreadsheet Exercise 591
PART 7  Short-Term Financial Decisions  593

14  Working Capital and Current Assets Management  594

14.1  Net Working Capital Fundamentals  595
Working Capital Management  595
Net Working Capital  596
Tradeoff between Profitability and Risk  596
→ REVIEW QUESTIONS  598

14.2  Cash Conversion Cycle  598
Calculating the Cash Conversion Cycle  599
Funding Requirements of the Cash Conversion Cycle  600
Strategies for Managing the Cash Conversion Cycle  604
→ REVIEW QUESTIONS  604

14.3  Inventory Management  604
Differing Viewpoints about Inventory Level  605
Common Techniques for Managing Inventory  605
International Inventory Management  610
→ REVIEW QUESTIONS  610

14.4  Accounts Receivable Management  610
Credit Selection and Standards  611

In practice  FOCUS ON ETHICS:
If You Can Bilk It, They Will Come  612
Credit Terms  616
Credit Monitoring  618
→ REVIEW QUESTIONS  620

14.5  Management of Receipts and Disbursements  620
Float  621
Speeding Up Collections  621
Slowing Down Payments  622
Cash Concentration  622
Zero-Balance Accounts  623
Investing in Marketable Securities  624
→ REVIEW QUESTIONS  625

Summary  626
Self-Test Problems  628
Warm-Up Exercises  628
Problems  629
Spreadsheet Exercise  634
15 Current Liabilities Management 636

15.1 Spontaneous Liabilities 637
Accounts Payable Management 637
Accruals 642
→ REVIEW QUESTIONS 642

15.2 Unsecured Sources of Short-Term Loans 642
Bank Loans 642
Commercial Paper 648
   in practice FOCUS ON PRACTICE: The Ebb and Flow of Commercial Paper 649
International Loans 650
→ REVIEW QUESTIONS 651

15.3 Secured Sources of Short-Term Loans 652
Characteristics of Secured Short-Term Loans 652
Use of Accounts Receivable as Collateral 653
Use of Inventory as Collateral 655
→ REVIEW QUESTIONS 657

Summary 657
Self-Test Problem 658
Warm-Up Exercises 659
Problems 659
Spreadsheet Exercise 666

Appendix A-1
Glossary G-1
Index I-1
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Preface

NEW TO THIS EDITION

Finance is a dynamic discipline, as illustrated on this book’s cover by the evolution of payment methods from coins and paper currency to bitcoin. Technology is rapidly reshaping finance, just as it has other industries. For example, in September 2017 Google introduced a new payment technology in India. Tez, a method of transferring money using sounds to connect two devices, was downloaded by millions of consumers in a matter of days. As we made plans to publish the eighth edition, we were mindful of changes in managerial finance practices that have taken hold in recent years. We carefully assessed feedback from users of the seventh edition as well as instructors not currently using our text about content changes that would improve this teaching and learning tool.

In every chapter, our changes were designed to make the material more up to date and more relevant for students. A number of new topics have been added at appropriate places, and new features appear in each chapter:

• We have rewritten all of the Focus on Ethics boxes, using new examples to highlight situations in which businesses or individuals have engaged in unethical behavior. The boxes explore the consequences of ethical lapses and the ways in which markets and governments play a role in enforcing ethical standards.

• New in this edition are Chapter Introduction Videos and animations. In the introduction videos the authors explain the importance of the chapter content within the context of managerial finance. The animations for select in-chapter figures and examples allow students to manipulate inputs to determine outputs in order to illustrate concepts and reinforce learning. MyLab Finance also offers new and updated Solution Videos that allow students to watch a video of the author discussing or solving in-chapter examples. We have also updated the financial calculator images that appear in the book to better match the financial calculator available on MyLab Finance.

• The chapter-ending Spreadsheet Exercises as well as select end-of-chapter problems in the text are now offered in MyLab Finance as auto-graded Excel Projects. Using proven, field-tested technology, auto-graded Excel Projects allow instructors to seamlessly integrate Microsoft Excel content into their course without having to manually grade spreadsheets. Students have the opportunity to practice important finance skills in Excel, helping them to master key concepts and gain proficiency with the program.

• We added new problems to each chapter, many of which require students to use real-world data to reach a solution.

The chapter sequence is essentially unchanged from the prior edition, but there are some noteworthy changes within each chapter. This edition contains fifteen chapters divided into seven parts. Each part is introduced by a brief overview, which is intended to give students an advance sense for the collective value of the chapters included in the part.
Part 1 contains two chapters. Chapter 1 provides an overview of the role of managerial finance in a business enterprise. It contains new, expanded content focusing on the goal of the firm and the broad principles that financial managers use in their pursuit of that goal. Chapter 2 describes the financial market context in which firms operate, with new coverage focusing on the transactions costs investors face when trading in secondary markets.

Part 2 contains three chapters focused on basic financial skills such as financial statement analysis, cash flow analysis, and time-value-of-money calculations. Chapter 3 provides an in-depth ratio analysis using real data from Whole Foods just prior to its acquisition by Amazon. The ratios provide opportunities for interesting discussion about some of the possible motives for that acquisition. We reorganized the flow of material in Chapter 4 to emphasize first the broad goals of strategic and operational financial planning and then the importance of cash flow within any financial plan. In Chapter 5, we rewrote much of the discussion to make time-value-of-money concepts simpler and more intuitive. We also added new coverage of growing perpetuities.

Part 3 focuses on bond and stock valuation. We placed these two chapters just ahead of the risk and return chapter to provide students with exposure to basic material on bonds and stocks that is easier to grasp than some of the more theoretical concepts in the next part. New in Chapter 6 is a discussion of the negative interest rates prevailing on government bonds in Japan and some European countries, as well as an expanded discussion of the tendency of the yield curve to invert prior to a recession. Chapter 7 offers new coverage of the use of price-to-earnings multiples to value stocks.

Part 4 contains the risk and return chapter as well as the chapter on the cost of capital. We believe that following the risk and return chapter with the cost of capital material helps students understand the important principle that the expectations of a firm’s investors shape how the firm should approach major investment decisions (which are covered in Part 5). In other words, Part 4 is designed to help students understand where a project “hurdle rate” comes from before they start using hurdle rates in capital budgeting problems. Updates to Chapter 8 include new historical data on stocks, bonds, and Treasury bills, as well as examples and problems featuring real data on companies such as Apple, Google, Coca-Cola, and Wal-Mart. Chapter 9 contains new material on the use of market-value-based weights in the cost of capital calculation featuring actual data on the capital structure of Netflix. Throughout the chapter we have revised examples and problems to reflect today’s low interest rate environment and the correspondingly low after-tax cost of debt faced by most public companies.

Part 5 contains two chapters on various capital budgeting topics. The first chapter focuses on capital budgeting methods such as payback and net present value analysis. A new feature of this chapter is an updated discussion of economic value added using data from Exxon Mobil Corp. The second chapter in this part explains how financial analysts construct cash flow projections, which are a required component of net present value analysis. It also describes how firms analyze the risks associated with capital investments.

Part 6 deals with the topics of capital structure and payout policy. These two chapters contain updated material on trends in firms’ use of leverage and their payout practices. Chapter 12 provides a new Focus on Practice box discussing how Qualcomm’s highly skilled labor force turns what often is thought of as a variable cost into a fixed cost and thereby creates operating leverage.
The chapter also contains new expanded coverage of the role that expected bankruptcy costs play in capital structure decisions. A new discussion in Chapter 13 highlights how and why companies have shifted their payout policies away from dividends and toward share repurchases over time.

Part 7 contains two chapters centered on working capital issues. A major development in business has been the extent to which firms have found new ways to economize on working capital investments. The first chapter in Part 7 explains why and how firms work hard to squeeze resources from their investments in current assets such as cash and inventory. The second chapter in this part focuses more on management of current liabilities.

Although the text content is sequential, instructors can assign almost any chapter as a self-contained unit, enabling instructors to customize the text to various teaching strategies and course lengths.

Like the previous editions, the eighth edition incorporates a proven learning system, which integrates pedagogy with concepts and practical applications. It concentrates on the knowledge that is needed to make keen financial decisions in an increasingly competitive business environment. The strong pedagogy and generous use of examples—many of which use real data from markets or companies—make the text an easily accessible resource for in-class learning or out-of-class learning, such as online courses and self-study programs.

**SOLVING TEACHING AND LEARNING CHALLENGES**

The desire to write *Principles of Managerial Finance, Brief Edition* came from the experience of teaching the introductory managerial finance course. Those who have taught the introductory course many times can appreciate the difficulties that some students have absorbing and applying financial concepts. Students want a book that speaks to them in plain English and explains how to apply financial concepts to solve real-world problems. These students want more than just description; they also want demonstration of concepts, tools, and techniques. This book is written with the needs of students in mind, and it effectively delivers the resources that students need to succeed in the introductory finance course.

Courses and students have changed since the first edition of this book, but the goals of the text have not changed. The conversational tone and wide use of examples set off in the text still characterize *Principles of Managerial Finance, Brief Edition*. Building on those strengths, eight editions, numerous translations, and well over half a million U.S. users, *Principles* has evolved based on feedback from both instructors and students, from adopters, nonadopters, and practitioners. In this edition, we have worked to ensure that the book reflects contemporary thinking and pedagogy to further strengthen the delivery of the classic topics that our users have come to expect. Below are descriptions of the most important resources in *Principles* that help meet teaching and learning challenges.

Users of *Principles of Managerial Finance, Brief Edition* have praised the effectiveness of the book’s Teaching and Learning System, which they hail as one of its hallmarks. The system, driven by a set of carefully developed learning goals, has been retained and polished in this eighth edition. The “walkthrough” on the pages that follow illustrates and describes the key elements of the Teaching and Learning System. We encourage both students and instructors to acquaint themselves at the start of the semester with the many useful features the book offers.
The field of finance is broad and dynamic. Finance influences everything that firms do, from being positioned to building factories to launching new advertising campaigns. Because almost any aspect of business has important financial dimensions, many financially oriented career opportunities await those who understand the principles of financial described in this textbook. Even if you see yourself pursuing a career in another discipline such as marketing, operations, accounting, supply chain, or human resources, you’ll find that understanding a few crucial ideas in finance will enhance your professional success. Knowing how financial managers think is important, especially if you’re not one yourself, because they are often the gatekeepers of corporate resources. Fluency in the language of finance will improve your ability to communicate the value of your ideas to your employer. Financial knowledge will also make you a smarter consumer and a wiser investor with your own money.

Learning goal icons tie chapter content to the learning goals and appear next to related text sections and again in the chapter-end summary, end-of-chapter problems and exercises, and supplements such as the Test Bank and MyLab.
THE ROLE OF BUSINESS ETHICS

Business ethics are the standards of conduct or moral judgment that apply to persons engaged in commerce.

MATTER OF FACT

Finance Professors Aren't Like Everyone Else

Professionals who advise individual investors know that many people are more willing to invest in the stock market if it has been rising in the recent past and are less willing to do so if it has been falling. Such "trend-chasing" behavior often leads investors worse off than if they had invested consistently over time. Classical financial theory suggests that past performance of the stock market is a very poor predictor of future performance, and therefore individuals should not base investment decisions on the market's recent history. A survey found that at least one group of investors did not fall prey to trend chasing in the stock market. When deciding whether to invest in stocks, finance professors were not influenced by the market's recent trend, presumably because they knew that past performance does not predict the future. That's just one of the lessons in this book that can help you make better choices with your own money.


In Example 5.8 involving Braden Company, we found the present value of Braden’s $700, 5-year ordinary annuity discounted at 4% to be $3,116.28. We now assume that Braden’s $700 annual cash in flow occurs at the start of each year and is thereby an annuity due. The following timeline illustrates the new situation.

We can calculate its present value using a calculator or a spreadsheet.

Calculator use Before using your calculator to find the present value of an annuity due, you must either switch it to BEGIN mode or use the DUE key, depending on the specifics of your calculator. Then, using the inputs shown at the left, you will find the present value of the annuity due to be $3,240.93 (Note: Because we nearly always assume end-of-period cash flows, be sure to switch your calculator back to END mode when you have completed your annuity-due calculations.)

Spreadsheet use The following spreadsheet shows how to calculate the present value of the annuity due.

For help in study and review, boldfaced key terms and their definitions appear in the margin where they are first introduced. These terms are also boldfaced in the book’s index and appear in the end-of-book glossary.

Matter of Fact boxes provide interesting empirical facts, usually featuring recent data, that add background and depth to the material covered in the chapter.

Examples are an important component of the book’s learning system. Numbered and clearly set off from the text, they provide an immediate and concrete demonstration of how to apply financial concepts, tools, and techniques. Many of these feature real-world data.

Examples illustrating time-value-of-money techniques often show the use of time lines, equations, financial calculators, and spreadsheets (with cell formulas). For instructors who prefer to use tables with interest rate factors, an IRF icon appearing with some examples indicates that the example can be solved using the interest rate factors. The reader can access the Interest Rate Factor Supplement in MyLab Finance. The Interest Rate Factor Supplement is a self-contained supplement that explains how the reader should use the interest rate factors and documents how the in-chapter examples can be solved by using them.
MyLab Finance contains additional resources to demonstrate the examples. The MyLab Financial Calculator reference indicates that the reader can use the finance calculator tool in MyLab Finance to find the solution for an example by inputting the keystrokes shown in the calculator screenshot. The MyLab Finance Solution Video reference indicates that the reader can go to MyLab Finance to watch a video of the author discussing or solving the example. The MyLab Finance Video reference indicates that the reader can watch a video on related core topical areas.

PERSONAL FINANCE EXAMPLE 5.12

Fran Abrams wishes to determine how much money she will have after 5 years if she chooses annuity A, the ordinary annuity. She will deposit the $1,000 annual payments that the annuity provides at the end of each of the next 5 years into a savings account paying 7% annual interest. This situation is depicted on the following timeline.

Timeline for future value of an ordinary annuity ($1,000 end-of-year deposit, earning 7%, after 5 years)

Year Future Value
0 $1,000
1 $1,000
2 $1,000
3 $1,000
4 $1,000
5 $1,000

As the figure shows, after 5 years, Fran will have $5,750.74 in her account. Note that because she makes deposits at the end of the year, the first deposit will earn 7%, after 5 years)

MyLab Finance Animation

MyLab Finance Financial Calculator

Key Equations appear in green boxes throughout the text to help readers identify the most important mathematical relationships.

Review Questions appear at the end of each major text section. These questions challenge readers to stop and test their understanding of key concepts, tools, techniques, and practices before moving on to the next section.

NEW! Some sections have dedicated Excel Review Questions that ask students to demonstrate their ability to solve a financial problem using Excel.

PERSONAL FINANCE EXAMPLES demonstrate how students can apply managerial finance concepts, tools, and techniques to their personal financial decisions.

Key Equations

\[ PV = \frac{CF_1}{r} \]  

Review Questions

5–10 What is the difference between an ordinary annuity and an annuity due? Which is more valuable? Why?

5–11 What are the most efficient ways to calculate the present value of an ordinary annuity?

5–12 How can the formula for the future value of an annuity be modified to find the future value of an annuity due?

5–13 How can the formula for the present value of an ordinary annuity be modified to find the present value of an annuity due?

5–14 What is a perpetuity? Why is the present value of a perpetuity equal to the annual cash payment divided by the interest rate? Why doesn't this chapter provide an equation showing you how to calculate the future value of a perpetuity?

Excel Review Questions

5–15 Because tax time comes around every year, you smartly decide to make equal contributions to your IRA at the end of every year. Using the information provided at MyLab Finance, calculate the future value of your IRA contributions when you retire.

5–16 You have just graduated from college and begun your new career, and now it is time to buy your first home. Using the information provided at MyLab Finance, determine how much you can spend for your new dream home.
SUMMARY

The time value of money is an important tool that financial managers and other market participants use to compare cash inflows and outflows occurring at different times. Because firms routinely make investments that produce cash inflows over long periods of time, the effective application of time-value-of-money techniques is extremely important. These techniques enable financial managers to decide whether to accept or reject projects, to compare the costs of investments, to determine the present value of cash inflows from future investments, and to compare the value of alternative investments over long periods of time. Understanding how to use these techniques enables managers to make wealth-maximizing decisions.

Examples of time-value-of-money techniques include

- Present value: The present value of a future cash flow is the value today of that future cash flow.
- Present value of a series of cash flows: The present value of a series of cash flows is the value today of those cash flows.
- Future value: The future value of a cash flow is the value of that cash flow at some future date. It is calculated by adding the present value of the cash flow to the interest it would earn over the time period.
- Future value of a series of cash flows: The future value of a series of cash flows is the value of those cash flows at some future date. It is calculated by adding the present value of the cash flows to the interest they would earn over the time period.
- Annuity: An annuity is a series of equal cash flows occurring at regular intervals. The present value and future value of an annuity can be calculated using specific formulas.
- Compounding: Compounding is the process of generating additional cash flows from a series of cash flows. It is calculated by adding the future value of the cash flows to the interest they would earn over the time period.

The end-of-chapter Summary consists of two sections. The first section, Focus on Value, explains how the chapter’s content relates to the firm’s goal of maximizing owner wealth. This feature helps reinforce understanding of the link between the financial manager’s actions and share value.

The second part of the Summary, the Review of Learning Goals, restates each learning goal and summarizes the key material that was presented to support mastery of the goal. This review provides students with an opportunity to reconcile what they have learned with the learning goal and to confirm their understanding before moving forward.

In Practice boxes offer insights into important topics in managerial finance through the experiences of real companies, both large and small. There are two categories of In Practice boxes:

- Focus on Ethics boxes help readers understand and appreciate important ethical issues and problems related to managerial finance. Nearly all of these boxes are brand new in this edition, and those that are not brand new have been substantially revised.
- Focus on Practice boxes take a corporate focus that relates a business event or situation to a specific financial concept or technique. Both types of In Practice boxes end with one or more critical thinking questions to help readers broaden the lesson from the content of the box.

**In Practice**

Was the Deal for Manhattan a Swindle?

Most schoolchildren marvel when hearing Manhattan was purchased for a song in 1626. As the story goes, Peter Minuit of the Dutch West India Company gave the Lenape Native Americans beads and trinkets worth a mere $24 for the island. Based on the recent exchange rate between the Euro and the U.S. dollar, that translates to about $717. Now, the deal looks a lot better to today, the sum would grow to roughly 4 trillion guilders or $2 trillion. Based on New York City’s Department of Finance property tax assessments, $2 trillion is roughly twice the value of all New York City homes.

Qualcomm’s Leverage

Qualcomm Inc., one of the largest semiconductor companies in the United States, designs and sells wireless telecommunications chips. Unlike some other chip manufacturers, such as Intel, Qualcomm is largely a fabless company, meaning that it does not own and operate its own fabrication (i.e., manufacturing) plants, but rather outsources the production of the devices it sells to third parties. This strategy makes Qualcomm’s fixed costs lower than those of other firms that manufacture their own products. Even so, some of Qualcomm’s costs are fixed. The company invests heavily in research and development, and it incurs those costs well before it knows what the demand for new devices will be. In addition, Qualcomm’s labor force, numbering roughly 30,000 employees, is highly skilled. Many of the company’s workers have advanced degrees in technical fields such as electrical engineering. Although we often think of labor as a variable cost, most companies do not lay off their most skilled workers due to a temporary decline in sales. Thus, at least some of Qualcomm’s payroll is best considered a fixed cost, at least in the short run.

To what extent do Qualcomm’s fixed costs give the company operating leverage? As demonstrated in the following table, the company experienced sales increases in every year from 2011 to 2014, but the percentage increase in EBIT was significantly greater than the gain in sales only in 2011. From 2012 to 2014, Qualcomm’s degree of operating leverage hovered at or below 1.0, prompting some Wall Street analysts to question why the company was not able to increase its profits faster during a period of rapid sales gains. In 2015 and 2016, Qualcomm fell behind the leading edge of technology, and some of its core chips for cell phones were no longer competitive. As a result, sales fell in 2 consecutive years, and EBIT fell even faster. In 2015 and 2016, Qualcomm’s degree of operating leverage roughly doubled what it had been in the previous 4 years. Qualcomm experienced the downside of operating leverage in 2015 and 2016 without benefitting from it in the previous years when sales were on the rise.

**REVIEW QUESTIONS**

1. Discuss the role of time value in finance, the use of computational tools, and the basic patterns of cash flow. Financial managers and investors use time-value-of-money techniques when assessing the value of expected cash flow streams. Alternatives can be assessed by either compounding to find future value or discounting to find present value. Financial managers rely primarily on present-value techniques, financial calculators and electronic spreadsheets,

2. The end-of-chapter Summary consists of two sections. The first section, Focus on Value, explains how the chapter’s content relates to the firm’s goal of maximizing owner wealth. This feature helps reinforce understanding of the link between the financial manager’s actions and share value.

3. The second part of the Summary, the Review of Learning Goals, restates each learning goal and summarizes the key material that was presented to support mastery of the goal. This review provides students with an opportunity to reconcile what they have learned with the learning goal and to confirm their understanding before moving forward.

4. **In Practice** boxes offer insights into important topics in managerial finance through the experiences of real companies, both large and small. There are two categories of In Practice boxes:

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5. The end-of-chapter Summary consists of two sections. The first section, Focus on Value, explains how the chapter’s content relates to the firm’s goal of maximizing owner wealth. This feature helps reinforce understanding of the link between the financial manager’s actions and share value.

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7. **In Practice** boxes offer insights into important topics in managerial finance through the experiences of real companies, both large and small. There are two categories of In Practice boxes:

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   - Focus on Practice boxes take a corporate focus that relates a business event or situation to a specific financial concept or technique. Both types of In Practice boxes end with one or more critical thinking questions to help readers broaden the lesson from the content of the box.

8. The end-of-chapter Summary consists of two sections. The first section, Focus on Value, explains how the chapter’s content relates to the firm’s goal of maximizing owner wealth. This feature helps reinforce understanding of the link between the financial manager’s actions and share value.

9. The second part of the Summary, the Review of Learning Goals, restates each learning goal and summarizes the key material that was presented to support mastery of the goal. This review provides students with an opportunity to reconcile what they have learned with the learning goal and to confirm their understanding before moving forward.
Self-Test Problems, keyed to the learning goals, give readers an opportunity to strengthen their understanding of topics by doing a sample problem. For reinforcement, solutions to the Self-Test Problems appear in the appendix at the back of the book. An IRF icon indicates that the Self-Test Problem can be solved using the interest rate factors. The reader can access the Interest Rate Factor Supplement in MyLab Finance.

Warm-Up Exercises follow the Self-Test Problems. These short, numerical exercises give students practice in applying tools and techniques presented in the chapter.

Comprehensive Problems, keyed to the learning goals, are longer and more complex than the Warm-Up Exercises. In this section, instructors will find multiple problems that address the important concepts, tools, and techniques in the chapter.

New! Excel templates for many end-of-chapter problems are available in MyLab Finance. These templates do not solve problems for students, but rather help students reach a solution faster by inputting data for them or by organizing facts presented in problems in a logical way.

A short descriptor identifies the essential concept or technique of the problem. Problems labeled as Integrative tie together related topics.
Every chapter includes a Spreadsheet Exercise. This exercise gives students an opportunity to use Excel software to create one or more spreadsheets with which to analyze a financial problem. The spreadsheet to be created is often modeled on a table or Excel screenshot located in the chapter. Students can access working versions of the Excel screenshots in MyLab Finance.

**MyLab FINANCE**

*Reach Every Student by Pairing This Text with MyLab Finance*

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When you teach with MyLab, student performance improves. That’s why instructors have chosen MyLab for over 15 years, touching the lives of over 50 million students.
MyLab opens the door to a powerful Web-based tutorial, testing, and diagnostic learning system designed specifically for the Zutter/Smart, *Principles of Managerial Finance, Brief Edition*. With MyLab, instructors can select an adaptable preconfigured course or create their own. Both options allow instructors to create, edit, and assign online homework, quizzes, and tests and track all student progress in the downloadable online gradebook. MyLab allows students to supplement and reinforce their in-class learning by taking advantage of a progress-driven Study Plan or self-selected practice problems, quizzes, and tests. For example, all end-of-chapter problems are assignable by instructors or selectable by students in MyLab, and because the problems have algorithmically generated values, no student will have the same homework as another or work the same problem twice; there is an unlimited opportunity for practice and testing. Students get the help they need, when they need it, from the robust tutorial options, including “View an Example” and “Help Me Solve This,” which breaks the problem into steps and links to the relevant textbook page.

This fully integrated online system gives students the hands-on tutorial, practice, and diagnostic help they need to ensure they are effectively learning finance in the most efficient manner. Utilization of the resources available in MyLab Finance saves instructors time by enabling students to more effectively learn on their own and providing instructors with a full account of student progress, auto grading, and an online gradebook that can seamlessly link with a Learning Management System (e.g., Blackboard Learn, Brightspace by D2L, Canvas, or Moodle) or be downloaded to Excel.

The Multimedia Library in MyLab Finance provides students with access to a variety of chapter resources all intended to reinforce their learning and understanding of the textbook content. For example, students can access a Chapter Introduction Video for every chapter and dozens of Solution Videos for select in-chapter examples. Students can also access dynamic animations for select figures and examples throughout the book that provide them with the ability to control inputs and drive outputs to better understand the concepts.

The auto-graded Excel feature in MyLab Finance allows instructors to assign all Spreadsheet Exercises and select end-of-chapter problems without having to manually grade spreadsheets. Students have the opportunity to practice important finance skills in Excel and instructors have the ability to assess their learning without the hassle of time-consuming grading. Students simply download a spreadsheet, solve a finance problem in Excel, and then upload the file back to MyLab Finance. Students will receive personalized feedback on their work within minutes that allows them to pinpoint where they went wrong on any step of the problem.

Chapter Cases with automatically graded assessment are also provided in MyLab Finance. These cases have students apply the concepts they have learned to a more complex and realistic situation. These cases help strengthen practical application of financial tools and techniques.

MyLab also has Group Exercises that students can work together in the context of an ongoing company. Each group creates a company and follows it through the various managerial finance topics and business activities presented in the textbook.

MyLab Finance has an Interest Rate Factor Supplement that explains how to use the interest rate factors in time-value-of-money problems and works seamlessly with the textbook. The student can go directly to the IRF Supplement and see the in-chapter example solved using the interest rate factors. All examples that appear in the IRF Supplement are indicated in the text with an IRF icon.
Advanced reporting features in MyLab also allow you to easily report on AACSB accreditation and assessment in just a few clicks.

An online glossary, digital flashcards, financial calculator tutorials, videos, Spreadsheet Use examples from the text in Excel, and numerous other premium resources are available in MyLab.

DEVELOPING EMPLOYABILITY SKILLS

For students to succeed in a rapidly changing job market, they should be aware of their career options and how to go about developing a variety of skills. In this book and in MyLab Finance, we focus on developing these skills in a variety of ways.

Excel modeling skills—Each chapter contains a Spreadsheet Exercise that asks students to build an Excel model to help solve a business problem. Many chapters provide screenshots showing completed Excel models designed to solve in-chapter examples. Many chapters contain Excel Review Questions that prompt students to practice using Excel to solve specific types of problems. In addition, students can access the working Excel screenshots and solutions to the Excel Review Questions in MyLab Finance to further reinforce their learning and understanding. Also, in MyLab students will find dozens of Excel templates, marked in the text with a special icon, that help them model select end-of-chapter problems so they can reach a solution faster and with a deeper understanding of the underlying concepts. Finally, as mentioned above, every Excel Spreadsheet Exercise and select end-of-chapter problems can be assigned and auto graded.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FUTURE VALUE OF AN ORDINARY ANNUITY</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Annual annuity payment</td>
<td>-$1,000</td>
</tr>
<tr>
<td>3</td>
<td>Annual rate of interest</td>
<td>7%</td>
</tr>
<tr>
<td>4</td>
<td>Number of years</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Future value</td>
<td>$5,750.74</td>
</tr>
</tbody>
</table>

Entry in Cell B5 is =FV(B3,B4,B2,0,0). The minus sign appears before the $1,000 in B2 because the annuity’s payments are cash outflows.

Ethical reasoning skills—The Focus on Ethics boxes describe situations in which business professionals have violated ethical (and in some cases even legal) standards and have suffered consequences as a result. These boxes will help students recognize the ethical temptations they are likely to face while pursuing a finance career and the consequences that they may suffer if they behave unethically. Each chapter ends with an Ethics Problem that asks students to consider the ethical dimensions of some business decision.

Critical thinking skills—Nearly every significant financial decision requires critical thinking because making optimal decisions means weighing the marginal benefits and costs of alternative plans. To weigh those benefits and costs, one must first identify and quantify them. Nearly every chapter in this textbook discusses how financial analysts place a value on the net benefits associated with a particular decision. Students who master this material will be prepared to ask the tough questions necessary to assess whether a particular course of action creates value for shareholders.
Data analysis skills—Financial work is about data. Financial analysts have to identify the data that are relevant for a particular business problem, and they must know how to process that data in a way that leads to good decision making. In-chapter examples and end-of-chapter problems require students to sort out relevant from irrelevant data and to use the data that they have to make a clear recommendation about what course of action a firm should take.

TABLE OF CONTENTS OVERVIEW

The text’s organization conceptually links the firm’s actions and its value as determined in the financial market. We discuss every significant financial problem or decision in terms of both risk and return to assess the potential impact on owners’ wealth. A Focus on Value element in each chapter’s Summary helps reinforce the student’s understanding of the link between the financial manager’s actions and the firm’s share value.

In organizing each chapter, we have adhered to a managerial decision-making perspective, relating decisions to the firm’s overall goal of wealth maximization. Once a particular concept has been developed, its application is illustrated by an example, which is a hallmark feature of this book. These examples demonstrate, and solidify in the student’s thought, financial decision-making considerations and their consequences.

INSTRUCTOR TEACHING RESOURCES

<table>
<thead>
<tr>
<th>Supplements available to instructors at <a href="http://www.pearsonhighered.com/irc">www.pearsonhighered.com/irc</a></th>
<th>Features of the Supplement</th>
</tr>
</thead>
</table>
| Instructor’s Manual | • Overview of key topics  
• Detailed answers and solutions to all Opener-In-Review Questions, Warm-Up Exercises, end-of-chapter Problems, and Chapter Cases  
• Suggested answers to all critical thinking questions in chapter boxes, Ethics Problems, and Group Exercises  
• Spreadsheet Exercises  
• Group Exercises  
• Integrative Cases |
| Test Bank | More than 2,700 multiple-choice, true/false, short-answer, and graphing questions with these annotations:  
• Difficulty level (1 for straight recall, 2 for some analysis, 3 for complex analysis)  
• Type (Multiple-choice, true/false, short-answer, essay)  
• Topic (The term or concept the question supports)  
• Learning outcome  
• AACSB learning standard (Ethical Understanding and Reasoning; Analytical Thinking Skills; Information Technology; Diverse and Multicultural Work; Reflective Thinking; Application of Knowledge) |
<table>
<thead>
<tr>
<th>Computerized TestGen</th>
<th>TestGen allows instructors to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Customize, save, and generate classroom tests</td>
</tr>
<tr>
<td></td>
<td>• Edit, add, or delete questions from the Test Item Files</td>
</tr>
<tr>
<td></td>
<td>• Analyze test results</td>
</tr>
<tr>
<td></td>
<td>• Organize a database of tests and student results</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PowerPoints</th>
<th>Slides include all the figures and tables from the textbook. PowerPoints meet accessibility standards for students with disabilities. Features include, but are not limited to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Keyboard and Screen Reader access</td>
</tr>
<tr>
<td></td>
<td>• Alternative text for images</td>
</tr>
<tr>
<td></td>
<td>• High color contrast between background and foreground colors</td>
</tr>
</tbody>
</table>
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