

Fundamentals of Finance

SEVENTH EDITION

# Corporate Finance

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#### FUNDAMENTALS OF CORPORATE FINANCE

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Fundamentals of

# Corporate Finance

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To our families and friends with love and gratitude. S.A.R. R.W.W. B.D.J.

# About the Authors



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Stephen A. Ross is the Franco Modigliani Professor of Finance and Economics at the Sloan School of Management, Massachusetts Institute of Technology. One of the most widely published authors in finance and economics, Professor Ross is recognized for his work in developing the Arbitrage Pricing Theory and his substantial contributions to the discipline through his research in signaling, agency theory, option pricing, and the theory of the term structure of interest rates, among other topics. A past president of the American Finance Association, he currently serves as an associate editor of several academic and practitioner journals. He is a trustee of CalTech and a director of the College Retirement Equity Fund (CREF) and Freddie Mac. He is also the co-chairman of Roll and Ross Asset Management Corporation.

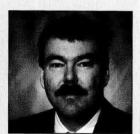


#### Randolph W. Westerfield

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Randolph W. Westerfield is Dean Emeritus of the University of Southern California's Marshall School of Business and is the Charles B. Thornton Professor of Finance.

He came to USC from the Wharton School, University of Pennsylvania, where he was the chairman of the finance department and a member of the finance faculty for 20 years. He is a member of several public company boards of directors including Health Management Associates, Inc., William Lyons Homes, and the Nicholas Applegate growth fund. His areas of expertise include corporate financial policy, investment management, and stock market price behavior.



#### Bradford D. Jordan

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# Preface from the Authors

When the three of us decided to write a book, we were united by one strongly held principle: Corporate finance should be developed in terms of a few integrated, powerful ideas. We believed that the subject was all too often presented as a collection of loosely related topics, unified primarily by virtue of being bound together in one book, and we thought there must be a better way.

One thing we knew for certain was that we didn't want to write a "me-too" book. So, with a lot of help, we took a hard look at what was truly important and useful. In doing so, we were led to eliminate topics of dubious relevance, downplay purely theoretical issues, and minimize the use of extensive and elaborate calculations to illustrate points that are either intuitively obvious or of limited practical use.

As a result of this process, three basic themes became our central focus in writing Fundamentals of Corporate Finance:

#### An Emphasis on Intuition

We always try to separate and explain the principles at work on a common sense, intuitive level before launching into any specifics. The underlying ideas are discussed first in very general terms and then by way of examples that illustrate in more concrete terms how a financial manager might proceed in a given situation.

### A Unified Valuation Approach

We treat net present value (NPV) as the basic concept underlying corporate finance. Many texts stop well short of consistently integrating this important principle. The most basic and important notion, that NPV represents the excess of market value over cost, often is lost in an overly mechanical approach that emphasizes computation at the expense of comprehension. In contrast, every subject we cover is firmly rooted in valuation, and care is taken throughout to explain how particular decisions have valuation effects.

### A Managerial Focus

Students shouldn't lose sight of the fact that financial management concerns management. We emphasize the role of the financial manager as decision maker, and we stress the need for managerial input and judgment. We consciously avoid "black box" approaches to finance, and, where appropriate, the approximate, pragmatic nature of financial analysis is made explicit, possible pitfalls are described, and limitations are discussed.

In retrospect, looking back to our 1991 first edition IPO, we had the same hopes and fears as any entrepreneurs. How would we be received in the market? At the time, we had no idea that just 14 years later, we would be working on a seventh edition. We certainly never dreamed that in those years we would work with friends and colleagues from around the world to create country-specific Australian, Canadian, and South African editions, an International edition, Chinese, French, Polish, and Spanish language editions, and an entirely separate book, *Essentials of Corporate Finance*, now in its fourth edition.

Today, as we prepare to once more enter the market, our goal is to stick with the basic principles that have brought us this far. However, based on an enormous amount of feedback we have received from you and your colleagues, we have made this edition and its package even *more flexible* than previous editions. We offer flexibility in coverage, by continuing to offer a variety of editions, and flexibility in pedagogy, by providing a wide variety of features in the book to help students to learn about corporate finance. We also provide flexibility in package options by offering the most extensive collection of teaching, learning, and technology aids of any corporate finance text. Whether you use just the text-book, or the book in conjunction with our other products, we believe you will find a combination with this edition that will meet your current as well as your changing needs.

Stephen A. Ross Randolph W. Westerfield Bradford D. Jordan

# Coverage

This book was designed and developed explicitly for a first course in business or corporate finance, for both finance majors and non-majors alike. In terms of background or prerequisites, the book is nearly self-contained, assuming some familiarity with basic algebra and accounting concepts, while still reviewing important accounting principles very early on. The organization of this text has been developed to give instructors the flexibility they need.

Just to get an idea of the breadth of coverage in the seventh edition of *Fundamentals*, the following grid presents, for each chapter, some of the most significant new features as well as a few selected chapter highlights. Of course, in every chapter, opening vignettes, boxed features, in-chapter illustrated examples using real companies, and end-of-chapter material have been thoroughly updated as well.

Chapters	Selected Topics of Interest	Benefits to You	
PART ONE Overvi	iew of Corporate Finance		
Chapter I Introduction to Corporate Finance	Goal of the firm and agency problems.	Stresses value creation as the most funda- mental aspect of management and describe agency issues that can arise.	
	Ethics, financial management, and executive compensation.	Brings in real-world issues concerning con- flicts of interest and current controversies surrounding ethical conduct and manage- ment pay.	
Chapter 2 Financial Statements, Taxes, and Cash Flow	New mini-case: Cash Flows and Financial Statements at Sunset Boards, Inc.	New case written for this edition reinforces key cash flow concepts in a small-business setting.	
	Cash flow vs. earnings.	Clearly defines cash flow and spells out the differences between cash flow and earnings.	
	Market values vs. book values.	Emphasizes the relevance of market values over book values.	
PARTTWO Finance	cial Statements and Long-Term Fi	nancial Planning	
Chapter 3 Working with Financial Statements	New section: Expanded Du Pont analysis.	New section expands the basic Du Pont equation to better explore the interrelation ships between operating and financial performance.	
	New material: Du Pont analysis for real companies using data from S&P Market Insight.	New analysis shows students how to get an use real-world data, thereby applying key chapter ideas.	
	Ratio and financial statement analysis using smaller firm data.	Uses firm data from RMA to show students how to actually get and evaluate financial statements benchmarks.	

# Coverage (continued)

Chapters	Selected Topics of Interest	Benefits to You	
Chapter 4 Long-Term Financial Planning and Growth	New mini-case: Financial Planning at S&S Air, Inc.	New case written for this edition illustrates the importance of financial planning in a small firm.	
	New material: Explanation of alternative formulas for sustainable and internal growth rates.	Explanation of growth rate formulas clears up a common misunderstanding about these formulas and the circumstances under which alternative formulas are correct.	
	Thorough coverage of sustainable growth as a planning tool.	Provides a vehicle for examining the interrelationships between operations, financing, and growth.	
PARTTHREE Valua	ation of Future Cash Flows		
Chapter 5 Introduction to Valuation: The Time Value of Money	First of two chapters on time value of money.	Relatively short chapter introduces just the basic ideas on time value of money to get students started on this traditionally difficutopic.	
<b>Chapter 6</b> Discounted Cash Flow Valuation	Second of two chapters on time value of money.	Covers more advanced time value topics with numerous examples, calculator tips, a Excel spreadsheet exhibits. Contains many real-world examples.	
Chapter 7 Interest Rates and Bond Valuation	New material: "Clean" vs. "dirty" bond prices and accrued interest.	Clears up the pricing of bonds between coupon payment dates and also bond mar quoting conventions.	
	New material: NASD's new TRACE system and transparency in the corporate bond market.	Up-to-date discussion of new developments in fixed income with regard to price, volume and transactions reporting.	
	New material: "Make-whole" call provisions.	Up-to-date discussion of relatively new type of call provision that has become very common.	
Chapter 8 Stock Valuation	New mini-case: Financing S&S Air's Expansion Plans with a Bond Issue.	New case written for this edition examines the debt issuance process for a small firm.	
	Stock valuation	Thorough coverage of constant and non-constant growth models.	
	NYSE and Nasdaq Market operations	Up-to-date description of major stock market operations	
PART FOUR Capit	al Budgeting		
Chapter 9 Net Present Value and Other Investment Criteria	First of three chapters on capital budgeting.	Relatively short chapter introduces key idea on an intuitive level to help students with this traditionally difficult topic.	
	NPV, IRR, payback, discounted payback, and accounting rate of return.	Consistent, balanced examination of advantages and disadvantages of various criteria.	

Chapters	Selected Topics of Interest	est Benefits to You		
Chapter 10 Making Capital Investment	Project cash flow.	Thorough coverage of project cash flows and the relevant numbers for a project analysis.		
Decisions	Alternative cash flow definitions.	Emphasizes the equivalence of various formulas, thereby removing common misunderstandings.		
	Special cases of DCF analysis.	Considers important applications of chapter tools.		
Chapter     Project Analysis and	New mini-case: Conch Republic Electronics.	New case written for this edition analyzes capital budgeting issues and complexities.		
Evaluation	Sources of value.	Stresses the need to understand the economic basis for value creation in a project.		
	Scenario and sensitivity "what-if" analyses.	Illustrates how to actually apply and interpret these tools in a project analysis.		
	Break-even analysis.	Covers cash, accounting, and financial breakeven levels.		
PART FIVE Risk ar	nd Return			
Chapter 12 Some Lessons from Capital Market History	New section: Geometric vs. arithmetic returns.	Discusses calculation and interpretation of geometric returns. Clarifies common misconceptions regarding appropriate use of arithmetic vs. geometric average returns.		
	Capital market history.	Extensive coverage of historical returns, volatilities, and risk premiums.		
	Market efficiency.	Efficient markets hypothesis discussed along with common misconceptions.		
Chapter 13 Return, Risk, and the	Diversification, systematic and unsystematic risk.	Illustrates basics of risk and return in a straightforward fashion.		
Security Market Line	Beta and the security market line.	Develops the security market line with an intuitive approach that bypasses much of the usual portfolio theory and statistics.		
Chapter 14 Options and Corporate	New mini-case: S&S Air's Convertible Bond.	New case written for this edition examines security issuance issues for a small firm.		
Finance	Stock options, employee stock options, and real options.	Discusses the basics of these important option types.		
	Option-embedded securities.	Describes the different types of option found in corporate securities.		
PART SIX Cost of	Capital and Long-Term Financial	Policy		
Chapter 15 Cost of Capital	New discussion: geometric vs. arithmetic growth rates.	Both approaches are used in practice. Clears up issues surrounding growth rate estimates		
	Cost of capital estimation.	Contains a complete, Web-based illustration		

# Coverage (concluded)

Chapters	Selected Topics of Interest	Benefits to You	
Chapter 16 Raising Capital	New discussion: Dutch auction IPOs.	Explains uniform price auctions using recer Google IPO as an example.	
	New discussion: IPO "quiet periods."	Explains the SEC's quiet period rules.	
	New discussion: rights vs. warrants.	Clarifies the option-like nature of rights prior to their expiration dates.	
	IPO valuation.	Extensive, up-to-date discussion of IPOs, including the 1999–2000 period.	
Chapter 17 Financial Leverage and Capital Structure Policy	Basics of financial leverage.	Illustrates effect of leverage on risk and return.	
	Optimal capital structure.	Describes the basic trade-offs leading to an optimal capital structure.	
	Financial distress and bankruptcy.	Briefly surveys the bankruptcy process.	
Chapter 18 Dividends and Dividend Policy	New mini-case: Cost of Capital for Hubbard Computer, Inc.	New case written for this edition analyzes cost of capital estimation for a non-public firm.	
	New material: Very recent survey evidence on dividend policy.	New survey results show the most important (and least important) factors considered by financial managers in setting dividend policy.	
	New material: Effect of new tax laws.	Discusses implications of new, lower dividend, and capital gains rates.	
	Dividends and dividend policy.	Describes dividend payments and the factor favoring higher and lower payout policies.	

## >> PART SEVEN Short-Term Financial Planning and Management

Chapter 19	Operating and cash cycles.	Stresses the importance of cash flow timing.
Short-Term Finance and Planning	Short-term financial planning.	Illustrates creation of cash budgets and potential need for financing.
Chapter 20 Cash and Liquidity	Float management.	Thorough coverage of float management and potential ethical issues.
Management	Cash collection and disbursement.	Examination of systems used by firms to handle cash inflows and outflows.
Chapter 21	New mini-case: Piepkorn Manufacturing	New case written for this edition evaluates
Credit and Inventory	Working Capital Management.	working capital issues for a small firm.
Management	Credit management	Analysis of credit policy and implementation.
	Inventory management	Brief overview of important inventory
		concepts.

Chapters Selected Topics of Interest		Benefits to You	
>> PART EIGHT T	opics in Corporate Finance		
Chapter 22 International Corporate	Foreign exchange.	Covers essentials of exchange rates and their determination.	
Finance	International capital budgeting.	Shows how to adapt basic DCF approach to handle exchange rates.	
	Exchange rate and political risk.	Discusses hedging and issues surrounding sovereign risk.	

# >> ALTERNATE EDITION—Additional Chapters

Chapter 23 Risk Management: An	Volatility and risk.	Illustrates need to manage risk and some o the most important types of risk.	
Introduction to Financial Engineering	Hedging with forwards, options, and swaps.	Shows how many risks can be managed with financial derivatives.	
Chapter 24 Option Valuation	Put-call parity and Black-Scholes.	Develops modern option valuation and factors influencing option values.	
	Options and corporate finance.	Applies option valuation to a variety of corporate issues, including mergers and capital budgeting.	
Chapter 25 Mergers and Acquisitions	New material: Alternatives to mergers and acquisitions.	Covers strategic alliances and joint ventures and why they are important alternatives.	
	New material: Defensive tactics.	Expanded discussion of anti-takeover provisions.	
	New section: Divestitures and restructurings.	Important actions such as equity carve-outs spins-offs, and split-ups are examined.	
	Mergers and acquisitions.	Develops essentials of M&A analysis, including financial, tax, and accounting issues	
<b>Chapter 26</b> Leasing	New material: Synthetic leases	Discusses controversial practice of custon tailored, "off-balance-sheet" financing.	
	Leases and lease valuation.	Essentials of leasing, good and bad reasons for leasing, and NPV of leasing are examined	

# In-Text Study Features

In addition to illustrating pertinent concepts and presenting up-to-date coverage, Fundamentals of Corporate Finance strives to present the material in a way that makes it coherent and easy to understand. To meet the varied needs of its intended audience, Fundamentals of Corporate Finance is rich in valuable learning tools and support.

#### **CHAPTER-OPENING VIGNETTES**

Vignettes drawn from real-world events introduce students to the chapter concepts. Questions about these vignettes are posed to the reader to ensure understanding of the concepts in the end-of-chapter material. For examples, see Chapter 5, page 124; Chapter 6, page 149.

COMPUTERFIELD CORPORATION Financial Statements					
Income Statement		<b>Balance Sheet</b>			
Sales	\$1,000	Assets	\$500	Debt	\$250
Costs	800			Equity	250
Net income	\$ 200	Total	\$500	Total	\$500

#### PEDAGOGICAL USE OF COLOR

This learning tool continues to be an important feature of Fundamentals of Corporate Finance. In almost every chapter, color plays an extensive, nonschematic, and largely self-evident role. A guide to the functional use of color is found on the endsheets of both the Annotated Instructor's Edition (AIE) and student version. For examples of this technique, see Chapter 3, page 50; Chapter 9, page 270.

#### IN THEIR OWN WORDS BOXES

This series of boxes are the popular articles updated from previous editions written by a distinguished scholar or practitioner on key topics in the text. Boxes include essays by Merton Miller on capital structure, Fischer Black on dividends, and Roger Ibbotson on capital market history. A complete list of "In Their Own Words" boxes appears on page xliv.

#### IN THEIR OWN



>> Ethics is a topic that has been receiving increased interest in the business community, Much of this discussion has been led by philosophers and has focused on moral principles. Rather

than review these issues. I want to discuss a complementary (but often ignored) set of issues from an economist's viewpoint. Markets impose potentially substantial costs on individuals and institutions that engage in unethical behavior. These market forces thus provide important incentives that foster ethical behavior in the business community.

At its core, economics is the study of making choices. I thus want to examine ethical behavior simply as one choice facing an individual. Economic analysis suggests that in considering an action, you identify its expected costs and benefits. If the estimated benefits exceed the estimated dosts, you take the action; if not, you don't. To focus this discussion, let's consider the following specific choice: Suppose you have a contract to deliver a product a specified quality. Would you cheat by

#### WORDS . . .

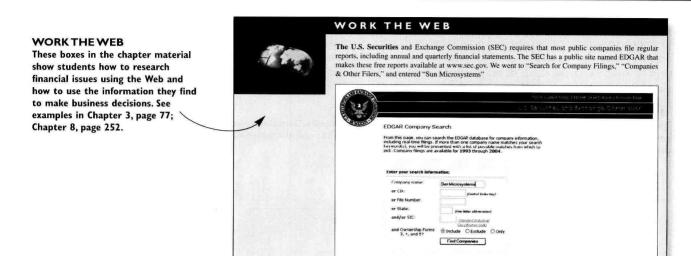
# Clifford W. Smith Jr. on Market Incentives for Ethical Behavior

detection, thereby reducing any incentive to misstate the firm's financial condition.

Second, the higher the sanctions imposed if cheating is detected, the less likely an individual is to cheat. Hence, a business transaction that is expected to be repeated between the same parties faces a lower probability of cheating because the lost profits from the forgone stream of future sales provide powerful incentives for contract compliance. However, if continued corporate existence is more forgone future sales. Therefore firms in financial difficulty are more likely to cheat than financially healthy firms. financial policies that help credibly bond against cheating. For example, if product quality is difficult to assess prior to purchase, customers doubt a firm's claims about product quality Where quality is more uncertain, customers are only willing to pay particularly strong incentives to adopt financial policies that imply a lower probability of insolvency

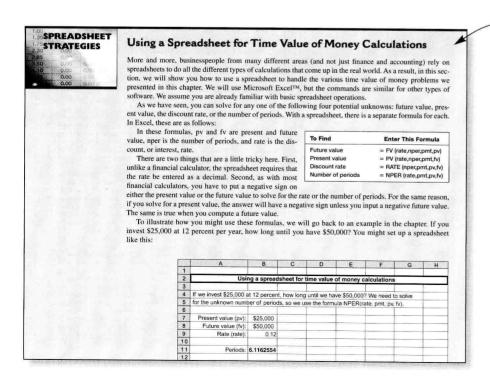
others. Ethical standards also vary across markets. For example, a payment that if disclosed in the United States would be labeled a bribe might be viewed as a standard business practice in a third-world market. The costs imposed will be higher the greater the consensus that the behavior was

Establishing and maintaining a reputation for ethical behavior is a valuable corporate asset in the business community. This analysis suggests that a firm concerned about the ethical conduct of its employees should pay careful attention to potential conflicts among the firm's management, employees, customers, creditors, and shareholders. Consider Sears, the department store giant that was found to be charging customers for auto repairs of questionable necessity. In an effort to make the company more service oriented (in the way that competitors like Nordstrom are), Sears had initiated an across-the-board polworks in clothing and housewares does not always work the same way in the auto repair shop. A customer for a



#### **ENHANCED! REAL-WORLD EXAMPLES**

Actual events are integrated throughout the text, tying chapter concepts to real life through illustration and reinforcing the relevance of the material. Some examples tie into the chapter opening vignette for added reinforcement. See example in Chapter 5, page 133.

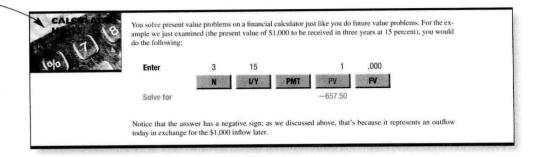


#### SPREADSHEET STRATEGIES

This feature either introduces students to Excel or helps them brush up on their Excel spreadsheet skills, particularly as they relate to corporate finance. This feature appears in self-contained sections and shows students how to set up spreadsheets to analyze common financial problems—a vital part of every business student's education. For examples, see Chapter 6, page 156; Chapter 7, page 200.

## CALCULATOR HINTS

These brief calculator tutorials have been added in selected chapters to help students learn or brush up on their financial calculator skills. These complement the justmentioned Spreadsheet Strategies. For examples, see Chapter 5, page 129; Chapter 6, page 155.



#### CONCEPT BUILDING

Chapter sections are intentionally kept short to promote a step-by-step, building block approach to learning. Each section is then followed by a series of short concept questions that highlight the key ideas just presented. Students use these questions to make sure they can identify and understand the most important concepts as they read. See Chapter 1, page 4; Chapter 3, page 52 for examples.

#### **SUMMARY TABLES**

These tables succinctly restate key principles, results, and equations. They appear whenever it is useful to emphasize and summarize a group of related concepts. For examples, see Chapter 2, page 32; Chapter 7, page 198.

#### LABELED EXAMPLES

Separate numbered and titled examples are extensively integrated into the chapters as indicated below. These examples provide detailed applications and illustrations of the text material in a step-by-step format. Each example is completely self-contained so students don't have to search for additional information. Based on our classroom testing, these examples are among the most useful learning aids because they provide both detail and explanation. See Chapter 2, page 22; Chapter 4, page 102.

#### **EXAMPLE 2.1** >> Building the Balance Sheet A firm has current assets of \$100, net fixed assets of \$500, short-term debt of \$70, and long-term debt of \$200. What does the balance sheet look like? What is shareholders' equity? What is net working capital? In this case, total assets are 100 + 500 = 600 and total liabilities are 70 + 200 =\$270, so shareholders' equity is the difference: \$600 - 270 = \$330. The balance sheet would thus look like: Liabilities and Shareholders' Equity Assets \$100 Current liabilities \$ 70 Current assets Long-term debt 200 Net fixed assets 500 Shareholders' equity 330 Total liabilities and \$600 shareholders' equity \$600 Total assets

Net working capital is the difference between current assets and current liabilities, or \$100 - 70 = \$30.