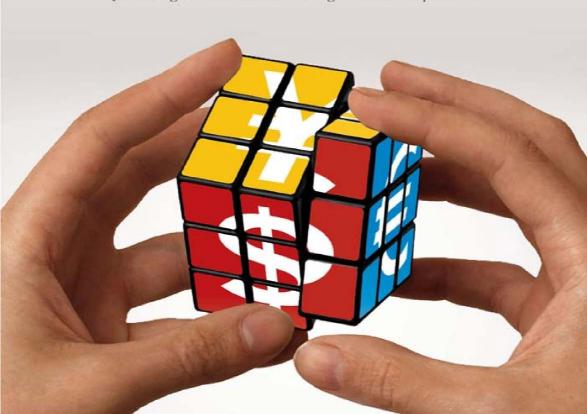
ESSENTIALS OF

Financial Management



EUGENE F. BRIGHAM • JOEL F. HOUSTON
Jun-Ming Hsu • Yoon Kee Kong • A. N. Bany-Ariffin



Financial Management



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PREFACE

Essentials of Financial Management was written as an introductory text that students would find interesting and easy to understand. Fundamentals immediately became the leading undergraduate finance text, and it has maintained that position ever since. Our continuing goal with this edition is to produce a book and ancillary package that sets a new standard for finance textbooks.

Finance is an exciting and continually changing field. Since the last edition, many important changes have occurred within the global financial environment. In the midst of this changing environment, it is certainly an interesting time to be a finance student. In this latest edition, we highlight and analyze the events leading to these changes from a financial perspective. Although the financial environment is ever changing, the tried-and-true principles that the book has emphasized over the past three and a half decades are now more important than ever.

STRUCTURE OF THE BOOK

Our target audience is a student taking his or her first, and perhaps only, finance course. Some of these students will decide to major in finance and go on to take courses in investments, money and capital markets, and advanced corporate finance. Others will choose marketing, management, or some other nonfinance business major. Still others will major in areas other than business and take finance plus a few other business courses to gain information that will help them in law, real estate, or other fields.

Our challenge has been to provide a book that serves all of these audiences well. We concluded that we should focus on the core principles of finance, including the basic topics of time value of money, risk analysis, and valuation. Moreover, we concluded that we should address these topics from two points of view: (1) that of an investor who is seeking to make intelligent investment choices and (2) that of a business manager trying to maximize the value of his or her firm's stock. Both investors and managers need to understand the same set of principles, so the core topics are important to students regardless of what they choose to do after they finish the course.

In planning the book's structure, we first listed the core topics in finance that are important to virtually everyone. Included were an overview of financial markets, methods used to estimate the cash flows that determine asset values, the time value of money, the determinants of interest rates, the basics of risk analysis, and the basics of bond and stock valuation procedures. We cover these core topics in the first nine chapters. Next, because most students in the course will probably work for a business firm, we want to show them how the core ideas are implemented in practice. Therefore, we go on to discuss cost of capital, capital budgeting, capital structure, dividend policy, working capital management, financial forecasting, risk management, international operations, hybrids, and mergers and acquisitions.

Nonfinance majors sometimes wonder why they need to learn finance. As we have structured the book, it quickly becomes obvious to everyone why they need to understand time value, risk, markets, and valuation. Virtually all students enrolled in the basic course expect at some point to have money to invest, and they quickly realize that the knowledge gained from Chapters 1 through 9 will help them make better investment decisions. Moreover, students who plan to go into the business world soon realize that their own success requires that their firms be successful, and the topics covered in Chapters 11 through 21 will be helpful here. For example, good capital budgeting decisions require accurate forecasts from people in sales, marketing, production, and human resources, and nonfinancial people need to understand how their actions affect the firm's profits and future performance.

ORGANIZATION OF THE CHAPTERS: A VALUATION FOCUS

As we discuss in Chapter 1, in an enterprise system such as that of the United States, the primary goal of financial management is to maximize their firms' values. At the same time, we stress that managers should not do "whatever it takes" to increase the firm's stock price. Managers have a responsibility to behave ethically, and when striving to maximize value, they must abide by constraints such as not polluting the environment, not engaging in unfair labor practices, not breaking the antitrust laws, and the like. In Chapter 1, we discuss the concept of valuation, explain how it depends on future cash flows and risk, and show why value maximization is good for society in general. This valuation theme runs throughout the text.

Stock and bond values are determined in the financial markets, so an understanding of those markets is essential to anyone involved with finance. Therefore, Chapter 2 covers the major types of financial markets, the rates of return that investors have historically earned on different types of securities, and the risks inherent in these securities. This information is important for anyone working in finance, and it is also important for anyone who has or hopes to own any financial assets. In this chapter, we also highlight how this environment has changed in the aftermath of the financial crisis.

Asset values depend in a fundamental way on earnings and cash flows as reported in the accounting statements. Therefore, we review those statements in Chapter 3 and then, in Chapter 4, show how accounting data can be analyzed and used to measure how well a company has operated in the past and how well it is likely to perform in the future.

Chapter 5 covers the time value of money (TVM), perhaps the most fundamental concept in finance. The basic valuation model, which ties together cash flows, risk, and interest rates, is based on TVM concepts, and these concepts are used throughout the remainder of the book. Therefore, students should allocate plenty of time to studying Chapter 5.

Chapter 7 deals with interest rates, a key determinant of asset values. We discuss how interest rates are affected by risk, inflation, liquidity, the supply of and demand for capital in the economy, and the actions of the Federal Reserve. The discussion of interest rates leads directly to the topics of bonds in Chapter 9 and stocks in Chapters 8 and 10, where we show how these securities (and all other financial assets) are valued using the basic TVM model.

The background material provided in Chapters 1 through 9 is essential to both investors and corporate managers. These are finance topics, not business or corporate finance topics as those terms are commonly used. Thus, Chapters 1 through 9 concentrate on the concepts and models used to establish values, whereas Chapters 11 through 21 focus on specific actions managers can take to maximize their firms' values.

Because most business students don't plan to specialize in finance, they might think the business finance chapters are not particularly relevant to them. This is most decidedly not true, and in the later chapters we show that all really important business decisions involve every one of a firm's departments—marketing, accounting, production, and so on. Thus, although a topic such as capital budgeting can be thought of as a financial issue, marketing people provide inputs on likely unit sales and sales prices; manufacturing people provide inputs on costs; and so on. Moreover, capital budgeting decisions influence the size of the firm, its products, its profits, and its stock price, and those factors affect all of the firm's employees, from the CEO to the mail room staff.

INNOVATIONS FOR THE FOURTH EDITION

A great deal has happened in the financial markets and corporate America since the third edition was published. In this fourth edition, we have made several important changes to reflect this dynamic environment. Below, we provide a brief summary of the more significant changes.

- 1. Today's students are tomorrow's business and government leaders, and it is essential that they understand the key principles of finance, and the important role that financial markets and institutions have on our economy. Since the last edition, a number of key events have significantly influenced the financial markets and finance in general. Over the last few years, we have witnessed continued weakness in the economy following the global financial crisis of 2008 and 2009, the European debt crisis, and growing unrest overseas. At the same time, the Federal Reserve's aggressive policy of quantitative easing has pushed interest rates to the lowest levels in years, which is partially responsible for the dramatic run-up in the U.S. stock market between August 2011 and August 2014. Throughout the fourth edition, we discuss these events and their implications for financial markets and corporate managers, and we use these examples to illustrate the importance of the key concepts covered in Fundamentals for investors, businesses, and even government officials.
- 2. In the fourth edition, we also continue to highlight the important influences of increased globalization and changing technology. These influences have created new opportunities, but they have also generated new sources of risk for individuals and businesses. Since the last edition, we have seen, for example, Facebook and Twitter's initial public offerings, the rise of Bitcoin, several high-profile mergers, and the rise of corporate inversions—where U.S. companies pursue strategies to move their headquarters to lower-tax countries.
- 3. Instructors and students continually impress upon us the importance of having interesting and relevant real-world examples. Throughout the fourth edition we have added several new examples where recent events help illustrate the key concepts covered in the text. We have also expanded and updated the many tables where we present real-world data, and we have revised the old Thomson One problems so that they can now be used with general Internet financial websites. To reflect this change, these problems are now called Taking A Closer Look. New Internet problems have been added in Chapters 9, 18, 19, 20, and 21. Finally, as is always the case, we have also made significant changes to many of the opening vignettes that precede each chapter.
- 4. Behavioral finance theory continues to have an important influence on the academic literature and it has in many ways reshaped the way that many of us think about financial markets and corporate finance. As a reflection of its growing importance, in Chapter 2 we moved the discussion of behavioral

- finance and its impact on the efficient markets hypothesis from a separate box into its own section. In addition, we continue to highlight the importance of securitization, the role of derivatives, and the increasing importance of hedge funds, mutual funds, and private equity firms.
- We updated the tax discussion in Chapter 3 to reflect 2014 tax rates and tax law changes for tax returns due April 15, 2015. Impacts of these changes are discussed throughout the text, especially in the capital structure and dividend chapters.
- In Chapter 4, we revised the definition of the debt ratio. We calculate it as interest-bearing debt divided by the sum of interest-bearing debt and equity. This revision is more consistent with our discussions in the capital budgeting, capital structure, and forecasting chapters.
- 7. We have added more Quick Questions that are designed to keep students actively involved and focused as they read the text. Here, in a separate box, we pose a question and then show students how to answer it. These Quick Questions go through examples to make the finance concepts more concrete, and in that sense they mimic what effective instructors often do in a classroom setting. Additional Quick Questions have been included in Chapters 3, 4, 7, and 8.
- In Chapter 15, we changed the Bigbee illustration (that works through the calculations to determine the optimal capital structure) to reflect lower interest rates.

When revising the text, we always rely heavily on a team of reviewers who offer suggestions for making the text more readable and relevant to students. We give special thanks to these reviewers later in the preface; their comments and recommendations certainly helped us improve this fourth edition.

DIGITAL SOLUTIONS FOR THE FOURTH EDITION

Changing technology and new ideas have had an exciting and dramatic influence on the ways we teach finance. Innovative instructors are developing and utilizing different classroom strategies, and new technology has allowed us to present key material in a more interesting and interactive fashion. As textbook authors, we think these new developments are tremendously exciting, and we have worked closely with our publisher's top team of innovative content and media developers, who have created a whole new set of revolutionary products for the fourth edition including:

MINDTAP™

MindTap™, Cengage Learning's fully online, highly personalized learning experience combines readings, multimedia activities, and assessments into a singular Learning Path. MindTap™ guides students through their course with ease and engagement with a learning path that includes an Interactive Chapter Reading, Problems, and the Online Homework Assignment. Instructors can personalize the Learning Path for their students by customizing the robust suite of the Fourth Edition resources and adding their own content via apps that integrate into the MindTap™ framework seamlessly with Learning Management Systems.

CHAPTERS ADAPTED IN THE FOURTH EDITION

- Professor Jun-Ming Hsu adapted Chapters 1, 2, 8, and 10.
- Dr. Yoon Kee Kong adapted Chapters 5, 9, and 18.
- Dr. A.N. Bany-Ariffin adapted Chapters 15, 16, and 19.

CONCLUSION

Finance is, in a real sense, the cornerstone of the enterprise system—good financial management is vitally important to the economic health of all firms and hence to the nation and the world. Because of its importance, finance should be widely and thoroughly understood, but this is easier said than done. The field is complex, and it undergoes constant change due to shifts in economic conditions. All of this makes finance stimulating and exciting, but challenging and sometimes perplexing. We sincerely hope that this fourth edition of *Essentials* will meet its own challenge by contributing to a better understanding of the financial systems in Asia and the United States.

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CHAPTER

- I An Overview of Financial Management
- 2 Financial Markets and Institutions



Goals and Practices of Asian Firms

In 1776, Adam Smith described the action of an "invisible hand" that drives firms to pursue profits, and concluded that profit maximization is the right goal for firms. Modern financial academicians and professionals subscribe to a modified version of Adam Smith's theory, asserting that a firm's goal is to maximize the wealth of its stockholders (which means maximizing stock prices) while avoiding practices harmful to society by not polluting the environment, not engaging in unfair employment practices, and not creating monopolies that exploit consumers.

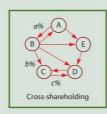
Despite the emphasis on shareholder value by most businesses today, the self-interests of managers can affect the stock value of a firm. Managers who pursue their own benefit by perquisite consumption, overinvestment, or underinvestment can decrease shareholder wealth. To align the interests of managers with those of stockholders, firms usually provide

incentive programs such as stock options to managers. If a firm gives its CEO stock options at \$50, her/his personal wealth increases when the stock price exceeds \$50. However, research has found that equity-based compensations drive CEOs to undertake riskier policies, conduct value-decreasing mergers and acquisitions (M&As), and report inaccurate financial statements. These findings indicate that the solution to an old problem (the agency problem) can bring about a new one, that of risk-taking.

In contrast, firms in East Asia emphasize stockholder wealth much less than those in the Western world. Also, they seem to worry less about agency problems, since they provide fewer incentive programs to managers. However, there are several practices that influence firms to maximize shareholder wealth, such as shareholdings of affiliates, control rights, and ownership structure.

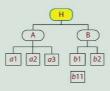
Shareholdings of affiliates. East Asian firms commonly
use cross-shareholdings to operate their businesses.
For instance, Japanese firms in large groups such as
Mitsui, Mitsubishi, and Sumitomo hold one another's
shares, which is called "keiretsu". As shown in the righthand graph, firm A holds a% of firm B's share, B holds
b% of C's share, and C holds c% of D's share. In this form,
firms in the group are indirectly in command of firm

A. This type of structure ensures managers of firms in the group care more about firm A's policy than maximization of shareholder wealth. It also reduces the possibility of activities that force managers to increase the firm value, such as proxy fights and hostile M&As.

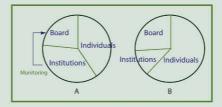


Another prevalent method of controlling affiliated firms uses pyramid shareholdings, which means that firms build up several layers of subsidiaries. This allows a firm to control more subsidiary firms and diversify operating risk. For instance, a firm can invest 100% of its funds in another firm or 20% share in each of five similar firms. It can make a firm into part of a conglomerate group, which may have greater market power and obtain more funds from banks. South Korean firms such as Samsung, LG, and Hyundai use this type of shareholdings to form their own "chaebol" or monopolistic business

family. However, firms in the group would prioritize the benefit of the mother firm (H in the right-hand graph) over that of shareholder wealth.



- Control rights. Many firms in East Asia are familyowned and do not clearly separate ownership and management. This phenomenon is popular in Hong Kong, South Korea, Singapore, and Taiwan. Family members occupy both board and top management positions, resulting in priority for family benefits over an increase in shareholder wealth. For instance, when the firm needs to buy a piece of land, managers may forgo one suitable for the firm to buy the one owned by a family member.
- Ownership structure. Compared to the capital markets in Western countries, East Asian markets consist of fewer institutional investors. The graph below depicts two types of ownership structure, where A has more institutional ownership than B.



Most firms in East Asia are more like B, which has a weaker monitoring effect from institutional investors. In this situation, the board is more likely to expropriate wealth from individual investors through self-dealing and insider trading.

Aware of such phenomena, the governments in East Asian countries have imposed regulations on firms to improve their corporate governance mechanisms, such as restrictions on the voting rights of affiliated firms in the mother firm, greater disclosure of information, and a mandatory minimum number of independent board directors. All these actions aim to compel firms to act in the interests of shareholders.

Source: Jeffrey L. Coles, Naveen D. Daniel, and Lalitha Naveen, "Managerial Incentives and Risk-taking," Journal of Financial Economics, 79 (2006), pp. 431-468; Yaniv Grinstein and Paul Hribar, "CEO Compensation and Incentives: Evidence from M&A Bonuses," Journal of Financial Economics, 73 (2004), pp. 119-143; Natasha Burns and Simi Kedia, "The Impact of Performance-based Compensation on Misreporting," Journal of Financial Economics 79 (2006), pp. 35-67; Stijn Claessens and Joseph P. H. Fan, "Corporate Governance in Asia: A Survey," International Review of Finance, 3 (2002), pp. 71-103.



PUTTING THINGS IN PERSPECTIVE

This chapter will give you an idea of what financial management is all about. We begin the chapter by describing how finance is related to the overall business environment, by pointing out that finance prepares students for jobs in different fields of business, and by discussing the different forms of business organization. For corporations, management's goal should be to maximize shareholder wealth, which means maximizing the value of the stock. When we say "maximizing the value of the stock," we mean the "true, long-run value," which may be different from the current stock price. In the chapter, we discuss how firms must provide the right incentives for managers to focus on long-run value maximization. Good managers understand the importance of ethics, and they recognize that maximizing long-run value is consistent with being socially responsible.

When you finish this chapter, you should be able to:

- Explain the role of finance and the different types of jobs in finance.
- Identify the advantages and disadvantages of different forms of business organization.
- Explain the links between stock price, intrinsic value, and executive compensation.
- Identify the potential conflicts that arise within the firm between stockholders and managers and between stockholders and bondholders, and discuss the techniques that firms can use to mitigate these potential conflicts.
- Discuss the importance of business ethics and the consequences of unethical behavior

1-1 What is Finance?

Finance is defined by Webster's *Dictionary* as "the system that includes the circulation of money, the granting of credit, the making of investments, and the provision of banking facilities." Finance has many facets, which makes it difficult to provide one concise definition. The discussion in this section will give you an idea of what finance professionals do and what you might do if you enter the finance field after you graduate.

1-1a Areas of Finance

Finance as taught in universities is generally divided into three areas: (1) financial management, (2) capital markets, and (3) investments.

Financial management, also called corporate finance, focuses on decisions relating to how much and what types of assets to acquire, how to raise the capital needed to purchase assets, and how to run the firm so as to maximize its value. The same principles apply to both for-profit and not-for-profit organizations; and as the title suggests, much of this book is concerned with financial management.