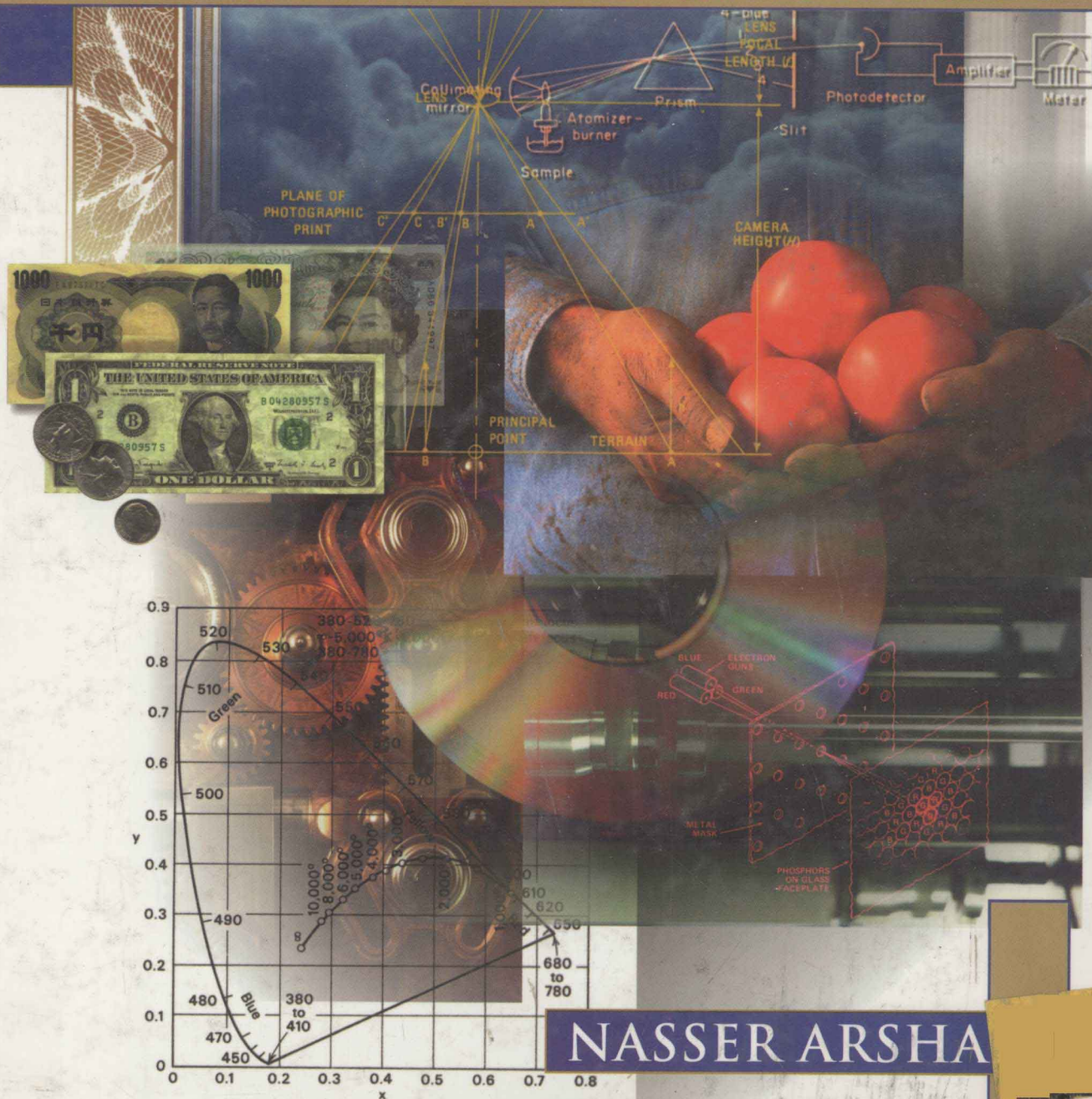


MODERN FINANCIAL

INTERMEDIARIES & MARKETS



NASSER ARSHA

GORDON V. KARELS

Modern Financial Intermediaries and Markets

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**Modern Financial
Intermediaries and Markets**



P R E F A C E

Most of the available textbooks dealing with financial markets and institutions introduce a collection of topics that have no clear theoretical connection with one another. As a result, students simply memorize a set of institutional details that often become obsolete due to changes in regulatory structure, advancements in technology, and the intensification of competition in domestic and international markets. Furthermore, students faced with a list of seemingly unrelated topics have difficulty in prioritizing particular facts and in comprehending and retaining the material for subsequent coursework and employment. In the end, this seemingly straightforward pedagogical methodology only complicates the subject matter. Not surprisingly, students find such texts tedious.

The existing descriptive books have generally shied away from the coverage of modern theoretical and empirical research under the assumption that such topics are too difficult for students to comprehend. Indeed, the very institutional nature of these books does not allow for a thorough integration of theoretical findings and their empirical tests. A decade of teaching such material, however, has proven to us in both undergraduate and graduate courses that students are eager to learn truly relevant theories and related evidence. The challenge for an effective finance instructor is to present complex theories and empirics in a manner that is comprehensible to students. Academics equally dissatisfied with material found in existing texts have settled, as we have, for a compilation of journal articles and special-topic books. We intend to integrate these topics into a single volume through a unified treatment.

As advances in information technology rapidly change the composition of financial instruments and intermediaries, education must also adapt to the new environment by teaching students the nature of the intermediation process, the unique features of intermediaries and instruments, and the trends in the development of new instruments in financial risk management (e.g., derivatives). Understanding the economic foundation of the intermediation process, in addition to the institutional details of today's intermediaries and instruments, will prepare students not only for today's job market but will also help to increase their educational flexibility in adapting to future changes.

Modern Financial Intermediaries and Markets examines firms, intermediaries, financial market instruments, and financial risk management. Advancements in the theory of capital markets and financial intermediation in the last two decades have significantly improved our understanding of these topics and altered traditional perspectives on the roles of capital markets, financial intermediaries, and regulatory structure. We develop the intermediation process as a broad theme which extends beyond the nature and purpose of financial intermediaries to include their influence over the financial instruments and markets in which they operate. For example, we examine the reasons behind commercial bank dominance in the swap market by evaluating the unique features of swap contracts,

their primary functions, and the financial positions of customers who demand swaps. This analysis requires us to build a unified framework through which we can explain how a bank is uniquely qualified to produce customer credit information before the bank participates in a swap agreement, bears the risk, and facilitates the customer's sale of stocks and bonds in the capital market.

We wrote this text primarily for financial markets and institutions courses at both the undergraduate and MBA levels, taken either as a general business requirement or as a finance or economics elective. The text will also work well in related courses on money and banking or bank management. Since the book is self-contained, students need no prior knowledge of financial intermediation or capital markets, but may find an introductory economics course useful as a pre-requisite.

To assist instructors in teaching, we provide an instructor's manual consisting of solutions to all questions and problems in the book, lecture notes, and overhead transparency masters. We also supply a test bank consisting of multiple choice questions and problems, essays, and word problems. A computerized version of the test bank is also available. We also intend to set up a Web Site to discuss current issues related to subjects discussed in the book. Like most instructors, we have been dissatisfied with the auxiliary material provided by most of the textbooks in the market. Our supplements are carefully prepared to provide detailed teaching and test material, with the intention of reducing instructors' preparation time.

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A B O U T
T H E
A U T H O R S

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Modern Financial Intermediaries and Markets

B R I E F C O N T E N T S

PART ONE: FINANCIAL INTERMEDIARIES

CHAPTER 1: A Framework for Studying Modern Financial Intermediaries and Markets	1
CHAPTER 2: Why Do Firms Exist?	10
CHAPTER 3: Why Do Financial Intermediaries Exist?	27
CHAPTER 4: Basic Functions of Depository Intermediaries	41
CHAPTER 5: Modern Functions of Depository Intermediaries: Off-Balance-Sheet, Loan Sale, and Securitization Activities	70
CHAPTER 6: Regulation of Depository Intermediaries	91
CHAPTER 7: The Deposit Insurance System	120
CHAPTER 8: Nondepository Financial Intermediaries: Insurance Companies	149
CHAPTER 9: Nondepository Financial Intermediaries: Pension Funds, Mutual Funds, Investment Banks, and Finance Companies	179
CHAPTER 10: Global Financial Intermediation	213

PART TWO: FINANCIAL MARKETS

CHAPTER 11: Market Efficiency and Asset Pricing	237
CHAPTER 12: The Level and Structure of Interest Rates	258
CHAPTER 13: Money and Capital Markets .	285
CHAPTER 14: Major Capital Market Transactions: Takeovers, Defensive Tactics, and Insider Trading	321

PART THREE: FINANCIAL DERIVATIVES

CHAPTER 15: Derivatives and the Management of Financial Risk	325
CHAPTER 16: Forward and Futures	382
CHAPTER 17: Swaps	413
CHAPTER 18: Options	434
CHAPTER 19: Future Trends in Financial Intermediaries and Markets .	468

C O N T E N T S

Preface	xiii
About the Authors	xvii

PART ONE: FINANCIAL INTERMEDIARIES

CHAPTER 1: A Framework for Studying Modern Financial Intermediaries and Markets	1
Transaction Costs as the Unifying Theme	1
The Intermediation Process	2
<i>Information Production</i>	2
<i>Risk Intermediation</i>	3
<i>Monitoring</i>	4
<i>Temporal Intermediation</i>	5
<i>Size Intermediation</i>	5
A Synopsis of the Chapters	5
CHAPTER 2: Why Do Firms Exist?	10
Introduction	10
Behavioral Assumptions	11
Transaction Attributes	12
<i>Asset Specificity</i>	12
<i>Uncertainty</i>	13
<i>Frequency</i>	13
Governance Structures	13
Boundaries of the Firm: Why Do Firms Outsource?	14
Transaction Costs within the Firm: An Introduction to Agency Theory	15
Agency Problems and Ownership Structure ..	16
<i>Proprietorships</i>	16
<i>Partnerships</i>	16
<i>Corporations</i>	17
Agency Problems within Corporations	18
<i>Management Perquisite Problem (Stockholder-Management Conflict)</i>	18
<i>Risk-Incentive Problem (Stockholder-Bondholder Conflict)</i>	19
<i>Investment-Incentive Problem (Stockholder-Bondholder Conflict)</i>	20
<i>Bankruptcy Disputes (Stockholder-Bondholder Conflict)</i>	21
<i>Information Asymmetry Problem (Old and New Shareholder Conflict)</i>	21

Solutions to Agency Problems within Corporations	22
<i>Corporate Law as a Means of Efficient Contracting</i>	22
<i>Corporate Governance as a Means of Mitigating Management-Incentive Problems</i>	23
<i>The Capital Market Solution</i>	23
<i>The Labor Market Solution</i>	24
<i>Signaling and Financial Intermediation as a Means of Mitigating Information Asymmetry Problems</i> ..	24
Summary	25
Review Questions	25
References	26

CHAPTER 3: Why Do Financial Intermediaries Exist?	27
Significance of Financial Intermediaries in the Economy	27
Why Do Financial Intermediaries Exist?	28
<i>The Unique Role of Financial Intermediaries in Producing Information: The Lemons Problem</i> ..	29
<i>Repeat Business through Intermediaries Reduces Transaction Costs</i>	31
<i>Confidentiality in Intermediary-Customer Relationship Reduces Transaction Costs in Producing Information</i>	31
<i>Financial Intermediaries Provide Superior Monitoring of the Collateral</i>	32
<i>Monitoring by Financial Intermediaries Reduces Managerial Incentive Problems</i>	32
The Uniqueness of Intermediary Loans	32
The Uniqueness of Intermediary Contingent Claims	34
Bank Loans and Contingent Agreements Produce Market-Based Ratings	35
Ownership Structure	35
<i>Stock vs. Mutual Ownership: The Case of S&Ls</i> ..	35
<i>Stock vs. Mutual Ownership: The Case of Insurance Companies</i>	37
Summary	39
Review Questions	39
References	39

CHAPTER 4: Basic Functions of Depository Intermediaries	41	Securitization	85
The Brokerage Function	41	<i>Pass-Through Securities</i>	85
The Asset Transformation Function	42	<i>Asset-Backed Bonds</i>	87
Fractional Reserve Banking, Payment System, and Central Bank: The Goldsmith Analogy	42	<i>Collateralized Mortgage Obligations (CMOs) and Real Estate Mortgage Investment Conduits (REMICs)</i>	87
The Institutional History	46	Summary	89
<i>Commercial Banks</i>	46	Review Questions	90
<i>Savings and Loan Associations</i>	48	References	90
<i>Credit Unions</i>	49	CHAPTER 6: Regulation of Depository Intermediaries	91
<i>Mutual Savings Banks</i>	50	Why Are Depository Financial Intermediaries Regulated?	91
Balance-Sheet Activities of Depository Institutions	50	The Theory of Regulation	92
Assets of Depository Institutions	50	<i>Public Interest Theory</i>	93
<i>Cash and Reserves</i>	50	<i>Many Interest Theory</i>	93
<i>Securities</i>	52	<i>Special Interest or Capture Theory</i>	94
<i>Federal Funds Sold and Repurchases</i>	52	<i>Public Choice Theory</i>	95
<i>Loans</i>	52	The Regulatory Cycle	96
<i>Other Assets</i>	54	Objectives of Financial Regulation	96
Liabilities and Equity Capital	54	<i>Safety and Soundness</i>	96
<i>Transaction Accounts</i>	54	<i>Consumer and Investor Protection</i>	97
<i>Savings Deposits</i>	55	<i>Fairness</i>	98
<i>Time Deposits</i>	55	<i>Information Disclosure</i>	99
<i>Foreign Deposits</i>	56	Regulatory Conflicts	100
<i>Borrowed Funds</i>	56	<i>Safety and Soundness vs. Competition</i>	100
<i>Subordinated Debt and Other Liabilities</i>	56	<i>Monetary Policy Conflicts</i>	102
<i>Equity Capital</i>	57	<i>Deposit Insurance Conflicts</i>	102
The Income Statement of Depository Intermediaries	58	Regulatory Structure	102
Risk in Depository Intermediation	61	<i>Supervisory Agencies for Depository Intermediaries: The OCC, the Fed, the FDIC, and Others</i>	103
<i>Liquidity Risk</i>	61	The Cost of Regulation	106
<i>Credit Risk</i>	63	<i>Regulating the Regulators</i>	108
<i>Interest Rate Risk</i>	64	Summary	108
Summary	66	Review Questions	109
Review Questions	68	References	109
References	69	Appendix: The List of Regulations Pertaining to Depository Intermediaries	110
CHAPTER 5: Modern Functions of Depository Intermediaries: Off-Balance-Sheet, Loan Sale, and Securitization Activities	70	CHAPTER 7: The Deposit Insurance System	120
Off-Balance-Sheet, Loan Sale, and Securitization Activities as Alternatives to Traditional Loans	70	An Overview of Deposit Insurance Problems	120
Off-Balance-Sheet Activities	72	The History of Deposit Insurance	121
<i>Loan Commitments</i>	72	<i>Bank Runs and Bank Panics</i>	121
<i>Standby Letters of Credit</i>	74	<i>Early Deposit Insurance Schemes</i>	123
<i>Commercial Letters of Credit</i>	74	The Federal Deposit Insurance Corporation	124
<i>Derivatives</i>	75	The Disposition of Failed Banks	126
<i>The Economic Reasons for the Growth of Derivatives Supplied by Financial Intermediaries</i>	77	The Savings and Loan Crisis	129
A Look at the Off-Balance-Sheet Activities of U.S. Commercial Banks	77	The Incentive Effects of Deposit Insurance	133
Regulatory Ramifications of Off-Balance-Sheet Activities	82	<i>The Value of Government Loan Guarantees: The Chrysler Corporation Case</i>	133
Loan Sales	84	<i>Deposit Insurance and Capital Adequacy</i>	135
		<i>Risk Incentive Problem: The Case of Financial Distress</i>	135
		<i>Risk Incentive Problem: The Case of Healthy Firms</i>	138

Controlling Risk Incentives	139	<i>Defined-Contribution Plans</i>	182
<i>Risk-Adjusted Deposit Insurance Premiums</i>	139	<i>Defined-Benefit Plans</i>	184
<i>Risk-Adjusted Capital Requirements</i>	142	<i>Management of Retirement Assets</i>	
The Outlook for Deposit Insurance	146	<i>and Pension Funds</i>	185
Deposit Insurance Proposals	147	<i>Regulation of Pension Funds</i>	187
Summary	147	<i>The Pension Benefit Guarantee</i>	
Review Questions	148	<i>Corporation (PBGC)</i>	189
References	148	Mutual Funds	190
CHAPTER 8: Nondepository Financial		<i>Open-End vs. Closed-End Funds</i>	190
Intermediaries: Insurance Companies	149	<i>The Historical Background of Mutual Funds</i>	191
Recent Trends in the Financial Activities		<i>The Evolution of Mutual Funds</i>	191
of Nondepository Financial Intermediaries	149	<i>Types of Mutual Funds</i>	194
The Economic Principles of Insurance	150	<i>Organization of Mutual Funds</i>	194
Life Insurance Companies	152	<i>How Does One Invest in a Mutual Fund</i>	194
<i>Ordinary Life Insurance</i>	152	<i>Institutional Investors in Mutual Funds</i>	198
<i>Group Life Insurance</i>	154	<i>A Global Perspective on Mutual Funds</i>	198
<i>Industrial Life Insurance</i>	155	<i>Regulation and Taxation of Mutual Funds</i>	201
<i>Credit Life Insurance</i>	155	Investment Banks	202
<i>The Balance Sheet and Income Statement</i>		<i>Primary Functions of Investment Banks</i>	203
<i>of Life Insurance Companies</i>	155	<i>Underwriting</i>	204
<i>A Global Perspective on Life Insurance</i>	156	<i>Trading and Brokerage</i>	205
Annuities	157	<i>Research</i>	207
<i>Fixed-Dollar Benefit Annuities</i>	158	<i>Private Placements</i>	207
<i>Variable-Dollar Benefit Annuities</i>	160	<i>Mergers and Acquisitions</i>	207
Health Insurance	160	<i>Funds Management</i>	208
<i>Incentive Problems in the Health Care System</i>	161	Finance Companies	208
<i>The Rising Cost of Health Care Insurance</i>	162	<i>The Balance Sheet of Finance Companies</i>	209
<i>Universal Health Insurance</i>	162	Summary	210
<i>Market Initiatives to Resolve Health Insurance</i>		Review Questions	211
<i>Problems</i>	163	References	212
<i>Government Initiatives to Reduce the Cost</i>		CHAPTER 10: Global Financial	
<i>of Health Care</i>	164	Intermediation	213
<i>Demand for Health Care Reform</i>	165	Globalization of Financial Intermediation	
Property-Casualty Insurance	166	and Markets	213
<i>Property-Casualty Insurance Products</i>	166	Global Financial Intermediation	214
<i>Balance Sheet and Income Statement</i>		<i>Some Definitions</i>	214
<i>of the U.S. Property-Casualty</i>		<i>Offshore Banking</i>	216
<i>Insurance Industry</i>	169	<i>U.S. Multinational Banking</i>	216
Lloyd's of London	169	<i>Foreign Banking in the United States</i>	217
<i>The History of Lloyd's of London</i>	170	<i>Universal Banking</i>	219
<i>Market Structure</i>	171	The Regulation of Global Financial	
<i>Regulation of Lloyd's</i>	172	Intermediaries	221
<i>Profitability and Financial Position of Lloyd's</i>		<i>International Banking Regulation</i>	
<i>of London</i>	173	<i>in the United States</i>	221
A Comparison of the Profitability of United States		<i>The International Regulation</i>	
and United Kingdom Insurance Companies		<i>of International Banking</i>	231
with That of Lloyd's	175	Summary	233
Summary	176	Review Questions	234
Review Questions	177	References	235
References	178		
CHAPTER 9: Nondepository Financial			
Intermediaries: Pension Funds, Mutual			
Funds, Investment Banks, and Finance			
Companies	179		
Pension Funds	179		
<i>A Historical Perspective on Retirement Funds</i>	179		

**PART TWO:
FINANCIAL MARKETS**

CHAPTER 11: Market Efficiency and Asset Pricing	237
Market Efficiency	237
<i>Empirical Evidence on Return Predictability</i>	238
<i>Empirical Evidence from Event Studies</i>	239
<i>Empirical Evidence on Private Information</i>	239
<i>How Efficient Is the Market?</i>	239
Asset Pricing without Risk	240
<i>Present Value and Future Value of a Sum</i>	240
<i>Perpetuities</i>	242
<i>Present Value and Future Value of an Annuity</i> ..	242
<i>Bond Pricing</i>	243
<i>Pricing Treasury and Corporate Securities</i>	244
<i>Holding Period Return</i>	245
<i>Stock Pricing</i>	246
Asset Valuation with Risk	247
<i>Risk and Return for a Single Asset</i>	247
<i>Risk and Return for a Portfolio of Assets</i>	249
<i>Capital Asset Pricing Model</i>	250
<i>Arbitrage Pricing Theory (APT)</i>	252
<i>CAPM in the Context of the Corporate Balance Sheet</i>	252
<i>How Do We Calculate Stock Betas?</i>	253
Summary	255
Review Questions	256
References	256
 CHAPTER 12: The Level and Structure of Interest Rates	 258
Determinants of Interest Rates	258
<i>The Loanable Funds Theory of Interest Rates</i>	258
<i>The Liquidity Preference Theory of Interest Rates</i> ..	261
The Role of the Federal Reserve in the Determination of Interest Rates	263
<i>Conduct of Monetary Policy through Changes in the Discount and Federal Funds Rates</i>	267
<i>The Fed, Interest Rates, and Inflation</i>	270
<i>The Fisher Effect</i>	271
<i>Realized Real Rates</i>	272
<i>The Fed in Practice</i>	273
Term Structure of Interest Rates	274
<i>Pure Expectations Theory</i>	275
<i>Liquidity Premium Theory</i>	278
<i>Preferred Habitat Theory</i>	278
<i>Market Segmentation Theory</i>	278
Term Structure Implications	279
Summary	280
Review Questions	281
References	282
Appendix: The Federal Reserve System	282

CHAPTER 13: Money and Capital Markets ..	285
An Overview of Financial Markets	285
Money Markets	288
<i>Treasury Bills</i>	289
<i>Commercial Paper</i>	290
<i>Commercial Letters of Credit and Bankers Acceptances</i>	290
<i>Eurocurrencies</i>	291
<i>Euronotes and Eurocommercial Paper</i>	291
Capital Markets	293
<i>Treasury Notes and Bonds</i>	293
<i>Agency Debt Securities</i>	293
<i>Municipal Bonds</i>	294
<i>Corporate Bonds</i>	296
<i>Convertibles and Callables</i>	298
<i>Junk Bonds</i>	299
<i>Eurobonds and Foreign Bonds</i>	301
<i>Floating-Rate Notes</i>	306
<i>The Global Equity Market</i>	308
<i>The Global Equity Market: The Primary Market</i>	308
<i>The Global Equity Market: The Secondary Market</i> ..	310
<i>Risk-Return Trade-Offs and Portfolio Diversification in the Global Equity Market</i>	316
Summary	318
Review Questions	319
References	320
 CHAPTER 14: Major Capital Market Transactions: Takeovers, Defensive Tactics, and Insider Trading	 321
The Structure of the Public Corporation	322
<i>The Internal Mechanism for Disciplining Management</i>	323
<i>The External Mechanism for Disciplining Management</i>	324
Corporate Takeovers: Tender Offers	325
<i>Laws Concerning Tender Offers</i>	325
<i>The Valuation Consequences of Tender Offers</i>	326
Antitakeover Defensive Tactics	329
<i>Shark Repellents</i>	329
<i>Poison Pills</i>	330
<i>Lock-Up Options</i>	331
<i>Litigation</i>	332
<i>Targeted Share Repurchases or Corporate Greenmail</i>	333
<i>Discriminatory Repurchases</i>	333
Insider Trading	333
<i>Insider Trading Laws</i>	334
<i>Other Laws Applicable to Insider Trading: The Case of RICO</i>	337
<i>Empirical Evidence on the Effectiveness of Insider Trading Regulation</i>	338
<i>Policy Implications in Insider Trading</i>	339

Summary	340	<i>Commodities Futures</i>	397
Review Questions	341	<i>Stock Index Futures</i>	397
References	341	<i>The Pricing of Futures Contracts</i>	398
PART THREE:			
FINANCIAL DERIVATIVES			
CHAPTER 15: Derivatives and the Management of Financial Risk	345	Hedging Strategies	400
The Expansion of Financial Risk Since the 1970s	346	<i>Methods of Calculating Hedge Ratios</i>	401
<i>Foreign Exchange Risk</i>	346	<i>Examples of Hedging Strategies</i>	404
<i>Commodities Price Risk</i>	348	Summary	409
<i>Interest Rate Risk</i>	348	Review Questions	410
The Link between Interest Rates, Foreign Exchange Rates, and Commodities Prices	349	References	412
The Development and Expansion of Derivatives in Response to Increased Financial Risk	350	CHAPTER 17: Swaps	413
<i>Derivatives Products for Exchange Rate Risk</i>	354	The Origin and Subsequent Development of the Swap Market	413
<i>Derivatives Products for Interest Rate Risk</i>	355	Major Swap Products	414
<i>Derivatives Products for Commodities Price Risk</i>	355	The Economic Rationale for the Existence of Swaps	415
Determinants of Demand for Derivatives by Publicly Held Corporations	356	<i>Why Do Currency Swaps Exist?</i>	415
<i>Financial Risk-Hedging Reduces Corporate Taxes</i>	356	<i>Why Do Interest-Rate Swaps Exist?</i>	416
<i>Financial Risk-Hedging Reduces Stockholder-Bondholder Conflicts</i>	357	Reasons for the Dominant Role of Commercial Banks in the Swap Market	418
<i>A Look at the Derivative Activities of Corporations</i>	358	Quotation Conventions and Financial Intermediation in the Swap Market	419
Determinants of Demand for Derivatives by Local Governments and Pension Plans	360	<i>Interest-Rate Swaps</i>	419
Determinants of the Supply of Derivatives by Financial Intermediaries as Dealers	361	<i>Currency Swaps</i>	419
<i>The Evolution of Derivatives Intermediation: Brokerage, Warehousing, and Portfolio Management</i>	364	Swap Pricing	420
The Regulation of OTC Derivatives	365	<i>Pricing a Fixed-to-Floating Interest-Rate Swap</i>	420
Examples of Derivatives Blow-Ups	365	<i>Pricing a Currency Swap</i>	423
Summary	374	Hedging Strategies Using Swaps	425
Review Questions	374	<i>Interest-Rate Risk-Hedging with Swaps</i>	425
References	375	<i>Currency Risk-Hedging with Swaps</i>	427
Appendix: The Group of Thirty's Recommendations for Good Industry Practice	375	The Regulation of Swaps	429
CHAPTER 16: Forwards and Futures	382	Summary	430
Forward Contracts	382	Review Questions	431
<i>Foreign Exchange Forwards</i>	383	References	433
<i>Interest-Rate Forwards: Forward-Rate Agreements</i>	387	CHAPTER 18: Options	434
<i>Contracting Issues in the Forward Market</i>	388	Unique Features of Options	434
Futures	389	<i>Buy-a-Call Option</i>	434
<i>Foreign Exchange Futures</i>	390	<i>Buy-a-Put Option</i>	435
<i>Interest-Rate Futures</i>	391	<i>Sell-a-Call Option</i>	436
		<i>Sell-a-Put Option</i>	436
		<i>Combined Options: Buy a Share and a Put, Buy a Call and Sell a Put, Sell a Call and Buy a Put</i>	437
		Price Quotations for Equity Options	440
		<i>Market Risk in Options: Delta, Vega, and Gamma</i>	441
		<i>Determinants of Option Prices</i>	441
		The Boundaries of Option Values	442
		Option Pricing	443
		<i>A Two-State Option Pricing Model</i>	443
		<i>The Black-Sholes Option Pricing Model</i>	444
		<i>Example 1: The Pricing of an Out-of-the-Money Call and an In-the-Money Put</i>	445
		<i>Example 2: The Pricing of an In-the-Money Call and an Out-of-the-Money Put</i>	446

Models Relaxing the Assumptions of the Black-Scholes Model	447	Hedging Strategies Using Options	463
Pricing of Equity Options with Dividends	447	Hedging Foreign Exchange Risk Using Options ..	463
Example 3: The Pricing of European Options with Dividends	450	Hedging Interest Rate Risk Using Options	465
Equity Index Options	451	Summary	466
The Pricing of Stock Index Options	451	Review Questions	466
Example 4: The Pricing of Equity Index Options ..	452	References	467
Currency Options	452	CHAPTER 19: Future Trends in Financial	
The Pricing of Currency Options	454	Intermediaries and Markets	468
Example 5: The Pricing of European Currency Options	454	Trends in Financial Intermediaries	468
Interest Rate Options	455	Consolidation in the Banking Industry	470
Exchange-Traded Interest Rate Options: T-Bond Futures Options, Eurodollar Futures Options, and Others	455	The Future of Financial Intermediaries	471
Over-the-Counter Interest Rate Options: Caps, Floors, Collars, and Swaptions	457	Trends in Financial Markets	473
The Pricing of Interest Rate Futures Options ...	458	The First Market	473
Example 6: The Pricing of Options on Futures ...	459	The Second Market	474
The Pricing of Caps and Floors	459	The Third Market	476
Example 7: The Pricing of an Interest Rate Cap ...	460	The Fourth Market	477
Example 8: The Pricing of an Interest Rate Floor ..	461	The Future of Financial Markets	478
Example 9: The Pricing of an Interest Rate Collar .	461	Trends in Derivatives and the Management of Financial Risk	480
The Pricing of Bond Options	462	Trends in Regulatory Reform	483
Example 10: The Pricing of Bond Options	462	Summary	485
		Review Questions	486
		References	486
		Index	487

C H A P T E R
1

A Framework for Studying Modern Financial Intermediaries and Markets

OBJECTIVES

This chapter presents a brief introduction to the intermediation process. We begin with a discussion of transaction costs, because their role is central to establishing markets, firms, corporations, financial intermediaries, and financial and derivative instruments. After introducing transaction costs, we describe the intermediation process, and conclude with a synopsis of each chapter.

TRANSACTION COSTS AS THE UNIFYING THEME

Advances in technology and intensified competition in domestic and global markets have led to drastic changes in the intermediation process, requiring a new approach to the study of financial institutions and markets. Since most activities in the intermediation process involve information, the impact of innovative technology on the financial services industry is significant. The ability to collect, process, and analyze large quantities of information quickly and cheaply has expanded market opportunities (e.g., mutual funds, derivatives) and has altered the way traditional markets operate (e.g., home mortgage securitization).

Technology has also contributed to the unbundling of the traditional loan into origination, risk-bearing, funding, and servicing functions, which, in turn, has increased competition in the financial markets for each function. Separating funding from the remaining loan services develops new lines of business for intermediaries in the form of fee-based activities. Securitization, loan sales, and off-balance-sheet activities are examples of fee-based ventures that do not require funding. Fee-based activities are on the rise, while traditional activities such as intermediary loans are on the decline. Whereas corporations once relied on bank loans for a major part of their external financing, they now raise a significant part of their funds through the direct sale of securities in the capital market, facilitated by standby letters of credit obtained from commercial banks.

In market-oriented economies there is an economic rationale for the existence of each and every institution and instrument. The surviving institutions and instruments are those that have the lowest transaction costs. *Transaction*