# **Contents**

	Preface	xvi
PART I	MONEY AND FINANCE	<b>.</b>
1	Introduction and Overview	1
	Importance of the Financial Sector 5 Savers and Borrowers 11 Economic and Financial Theory 14 Questions 15 References 16	
2	Money and Prices	17
	Money Defined 17 What Money Is Not 17 What Money Is 18 Functions of Money 19 Development of Money 20 Inconvenience of Money 21 Measures of Money 22 The Value of Money 25 Real Values 29 Prices 30 Past Prices 30 Future Prices 31 Hyperinflation 31 Money Management 35	
	Summary 36 Questions 36 References 37	

PART II	FINANCIAL MARKETS	
3	Financial Markets	38
	Private Financial Market 40 Intermediation Financial Market 42 The Intermediation Process 45 Classification of Financial Markets 53 Summary 58 Questions 59 References 59	
4	Financial Instruments	60
	Money-Market Instruments 65 Capital-Market Instruments 71 Summary 78 Questions 78 References 79	
5	Interest Rates and Bond Prices	80
	What Interest Rates Are 80 Mathematics of Interest Rates and Bond Prices 82  Present Value 83  Yield to Maturity 85  Current Yield 93  Realized Yield 94  Summary 95 Questions 96 References 97  APPENDIX 5A Duration 97  References 104  APPENDIX 5B Closed-Form Macaulay Duration Equations 104	
6	The Level of Interest Rates	106
	Inflation Premium 107 Determinants of the Interest-Rate Level 114 Loanable Funds 114 Liquidity Preference 116 Interest Rates over the Business Cycle 120 Summary 122 Questions 122 References 123	
7	The Structure of Interest Rates I	124
	Term to Maturity 125  Expectations Theory 126  Market-Segmentation Theory 131  Yield-Curve over the Business Cycle 133  Risk of Default 135  Summary 141 Ouestions 142 References 143	

. 17	N I"	70
v	IV.	

8	The Structure of Interest Rates II	144
	Tax Treatment 144 Marketability 146 Special Features—Options 146 Interrelationship Among Rates 149 Winning with Bonds 151 Realized Returns 154 Summary 156 Questions 157 References 157	
PART III	FINANCIAL INSTITUTIONS	
9	Financial Intermediaries: An Overview	158
	Institutions on the Private Financial Market 159 Investment Banks 159 Mortgage Banks 166 Institutions on the Intermediation Financial Market: Overview	167
	Summary 171 Questions 176 References 176	·
10	Commercial Banks	178
	Development of Banking 178  Fractional Reserve Banking 180  Bank Failure 181  Capital and Liquidity 183  Deposit Banking 184  Bank Balance Sheet 187  Bank Management 192  Summary 193 Questions 197 References 197	
11	More on Commercial Banks	199
	Bank Failure 199 Bank Structure and Organization 211 Charter 212 Branching 213 Holding Companies 215 Bank Size 219 Bank Franchising 220 Structure and Performance 221 U.S. Overseas Offices 222 Foreign Offices in the United States 223	
	Summary 225 Questions 226 References 226	

12	Thrift and Insurance Intermediaries	228
	Thrift Institutions 228 Savings and Loan Associations 229 Savings Banks 234 Credit Unions 236 Insurance Intermediaries 237 Life Insurance Companies 239 Casualty Insurance Companies 241 Summary 242 Questions 243 References 244	
13	Other Nonbank Financial Intermediaries	245
	Investment Companies 245  Mutual and Closed-End Funds 245  Money-Market Funds 249  Other Financial Intermediaries 251  Pension Funds 251  Finance Companies 255  Nonfinancial Firms 257  Summary 258 Questions 260 References 261	
14	The Payments System	262
	Paper Transfer Systems 263  Currency 263 Checks 265 Credit Cards 273  Electronic Funds Transfer Systems 274 Wire Transfers 274 Automated Clearinghouse 275 Automated Teller Machines 276 Point-of-Sale Transfers 277  Summary 280 Questions 281 References 281	
15	Depository Institutions and the Supply of Money	283
	Currency 284  A Digression: The Case of the "Excess" Currency 285  Transaction Deposits 287  An Individual Bank 287  The Banking System 289  The Deposit Multiplier 291  Money Supply 295  Summary 296 Questions 296 References 297	

APPENDIX 15A Deposit Expansion Process 297 Reference 301 16 Regulation of the Financial System 302 Reasons for Regulation 303 Types of Regulation 306 Safety 306 Structure 309 Money Control 315 Evaluation of Regulation 315 Regulatory Agencies 318 Comptroller of the Currency 318 Federal Reserve System 320 Federal Deposit Insurance Corporation 320 Federal Home Loan Bank System 322 National Credit Union Administration 323 Bank Examinations 323 Summary 329 Ouestions 330 References 330 PART IV **CURRENT ISSUES IN FINANCIAL MARKETS** AND INSTITUTIONS 17 **Managing Interest-Rate Risk** 332 A Hypothetical Bank Balance Sheet 333 **Duration Analysis 337** Managing Interest-Rate Risk 342 Practical Problems with Applying Duration Gap Analysis 346 Advantages of Duration Gap Analysis 350 Summary 354 **Ouestions 354** References 355 18 **Deposit Insurance** 356 Determination of Premiums 357 Total versus Insured Deposits 358 Risk-Related Premiums 359 Percent of Deposits Insured 361 Who Should Pay the Premiums? 366 Who Pays Now? 366 Who Should Provide Insurance? 368 How Should Failed Banks Be Treated? 369 The FDIC as Insurer and Regulator 373 Recent Developments in Deposit Insurance 374 Summary 376 Questions 377 References 377

19	Deregulation and Regulatory Reform	379
	Reform of Regulations 380  Specialized Powers of Financial Institutions 382  Branching 387  Reform of Regulatory Agencies 394  The Case against Multiple Agencies 396  The Case for Multiple Agencies 399  Prospects for Reform 400  Summary 402 Questions 402 References 403	
20	Separation of Commercial and Investment Banking	405
	History 405 The Banking Act of 1933 407 Reasons for the Banking Act 408 Permissible Bank Securities Activities 410 Underwriting and Trading Securities 412 Customer Money Management Services 412 Brokerage Activities 413 Private Placements 415 Nonpermissible Bank Securities Activities 416 Selling Mutual Funds 416 Should Banks Be Permitted to Expand Their Securities Activities? 417 Competition and Concentration 417 Economies of Scale and Scope 419 Bank Stability and Risk 420 Conflict of Interest and Other Abuses 421 Summary 422 Questions 423 References 424	
21	The Mortgage Market	425
	Effect of Regulation Q 427 The Mathematics of Mortgages 429 Fixed-Rate Mortgage (FRM) 429 Alternate Mortgage Plans 433 Graduated-Payment Mortgage (GPM) 434 Variable-Rate Mortgage (VRM) 435 Price-Level-Adjusted Mortgage (PLAM) 436 Interest-Rate Risk and Financial Intermediation 437 The Secondary Market 440 Summary 443 Questions 444 References 445	

٦	N	т	N	т	c
)	IN	П	Ν	ш	7

22	Financial Futures and Options	446
	Financial Futures 446  Hedging 453  Hedging Fixed-Rate Loans 457  Speculating 459  Forward and Futures Interest Rates 459  Financial Options 460  Summary 464 Questions 465 References 465	
23	Financial Innovation	467
	New Institutions 469 New Instruments 471 New Technology 487 Summary 488 Questions 489 References 490	
PART V	INTERNATIONAL FINANCE	
24	Foreign Exchange Rates and the Balance of Payments	491
	Exchange Rates 493  Fixed vs. Flexible Exchange Rates 496  Balance of Payments 503  U.S. Balance of Payments 504  Relation to Exchange Rates 505  Balance-of-Payments History 506  Summary 507 Questions 508 References 508	
25	International Financial Institutions and Markets	510
	International Monetary Fund (IMF) 510  Borrowing Facilities 511  Special Drawing Rights 513  World Bank 515  International Development Association 516  Eurodollars 516  International Financial Markets 520  Short- and Intermediate-Term Financing 521  International Bond Financing 522  Summary 523 Questions 526 References 526	

χi

#### PART VI MONETARY THEORY AND POLICY

#### **26** Economic Goals

Summary 544

528

The Goals of the Economy 528

Full Employment 529

Economic Growth 531

Price Stability 533

Stability in the International Balance of Payments and Foreign

Exchange Rates 534

Equitable Distribution of Income and Wealth 535

Efficiency 537

Responsibility for Goals 538

Economic Policy 540

Economics and Politics 541

References 545

## 27 The Federal Reserve System: Purposes and Organization

Ouestions 544

547

Structure of the Federal Reserve 548

Board of Governors 548

Federal Open Market Committee (FOMC) 549

Regional Banks 550

Independence of the Federal Reserve 552

Federal Reserve Balance Sheet and Reserves 554

Assets 554

Liabilities 556

Control of Reserves 557

Interpreting the Balance Sheet 558

Summary 560 Questions 561 References 561

## 28 The Federal Reserve System: Tools and Instruments

563

Quantitative Tools 564
Changing the Multiplier (k) 564
Changing the Amount of Reserves (R) 566
Target Rates of Monetary Expansion 573
Qualitative Tools 575
Regulation Q 575
Margin Requirements 576
Moral Suasion 576

ONTENTS

	Minimum Down Payment 577 The Credit Control Program of 1980 577	
	Evaluation of Qualitative Tools 578 Summary 579 Questions 580 References 580	
29	Monetary Theories	582
	Quantity Theory 584 Keynesian Theory 589 Speculative Demand for Money 590 Total Demand for Money 592 The Supply of Money 594 Interest Rates 596 Summary 598 Questions 599 References 599	
30	Money and income	600
	The Financial Sector 601 The Real Sector 603 Consumption 603 Investment 606 Government 607 Total Spending 608 Full-employment Income 610 Summary 612 Questions 612 References 613	
31	Monetary Policy	614
	The Strength of Monetary Policy 615 Slope of the LM Function 615 Slope of the IS Function 617 The Transmission Mechanism 619 Policy Lags 625 Summary 629 Questions 630 References 631	
32	Monetary Policy in the Post-World War II Period	632
	Overview 632 1947-1960: Years of Economic Innocence 637 1960-1970: Years of Economic Experimentation and Promise 1970-1980: Years of Economic Pain, Frustration, and Disillusionment 644 1980-1988: Return to Stability 647 Summary 649 Questions 650 References 651	640

DADT VII	CURRENT ISSU	IFS IN MOI	NFTADY	<b>DOLICY</b>

33	Interest Rates, Indicators, and Targets	652
	Complete Money—Interest-Rate Relationship 652  Price-Expectations Effect 653  Empirical Evidence 657  Indicators of Monetary Policy 657  Interest Rates 659  Money Supply 660  Intermediate Targets for Monetary Policy 661  Interest Rates or Money Supply? 662  Uncertainty in the Financial Sector 664  Uncertainty in the Real Sector 665  Federal Reserve Targets 666  How Good Has Federal Reserve Control Been? 669  Fed Watching 671  Summary 671 Questions 675 References 676	
34	Inflation and the Phillips Curve	677
	Costs of Inflation 679 Aggregate Income Loss 681 Income and Wealth Redistribution 683 The Evidence 684 The Phillips Curve 689 Stability of the Phillips Curve 691 Rational Expectations 697 Summary 700 Questions 700 References 701	
35	Keynesianism, Monetarism, and Other Isms	702
	Keynesians vs. Monetarists 702 Differences in Transmission 705 Differences in Assumptions 712 Differences in Policy Recommendations 712 Other Monetary Theories 714 Availability Theory 715 Bankers Theory 716 Summary 718 Questions 719 References 720	
	Index	721

**Exhibit 7-1** Methodology Used by Standard & Poor's to Rate Industrial Firms 138

Exhibit 9-1	For 4 Days' Work, \$126,582 an Hour 162
Exhibit 10-1	Life at a Bank's Money Desk 193
Exhibit 11-1	Chronology of a Bank Failure: What Goes on Behind Closed Doors at the FDIC Before an Insured Bank's Doors Are Closed for Good 201
Exhibit 18-1	The Failure and Rebirth of the Continental Illinois National Bank 363
Exhibit 19-1	Bootleggers and Baptists—The Education of a Regulatory Economist 383
Exhibit 19-2	Mixing Commerce and Banking: The German Case 388
Exhibit 23-1	Example of Interest-Rate Swap 484
Exhibit 25-1	ECU, Who? 524
Exhibit 31-1	The Liquidity Trap 618
Exhibit 31-2	Digression on Fiscal Policy, Deficits, and Crowding Out 621
Exhibit 33-1	Life of a Fed Watcher 673
Exhibit 34-1	Anatomy of Failure: The Collapse of Brazil's Cruzado Plan 698