



## Brief Contents

PART 1: The International Financial Environment
 Multinational Financial Management: An Overview 3

2	International Flow of Funds 33
3	International Financial Markets 63
4	Exchange Rate Determination 103
5	Currency Derivatives 131
PAF	RT 2: Exchange Rate Behavior 185
6	Government Influence on Exchange Rates 187
7	International Arbitrage and Interest Rate Parity 227
8	Relationships among Inflation, Interest Rates, and Exchange Rates 257
	RT 3: Exchange Rate Risk Management 295
9	Forecasting Exchange Rates 297
10	Measuring Exposure to Exchange Rate Fluctuations 325
11	Managing Transaction Exposure 355
12	Managing Economic Exposure and Translation Exposure 393
PAF	RT 4: Long-Term Asset and Liability Management 415
13	Direct Foreign Investment 417
14	Multinational Capital Budgeting 437
15	International Corporate Governance and Control 477
16	., ., ., ., ., ., ., ., ., ., ., ., ., .
17	
18	Long-Term Debt Financing 551
PAF	RT 5: Short-Term Asset and Liability Management 575
19	Financing International Trade 577
20	Short-Term Financing 595
21	International Cash Management 611
App	endix A: Answers to Self-Test Questions 643
App	endix B: Supplemental Cases 656
App	endix C: Using Excel to Conduct Analysis 676
App	endix D: International Investing Project 684
App	endix E: Discussion in the Boardroom 687
App	endix F: Use of Bitcoin to Conduct International Transactions 695
	ssary 697
Inde	ex 705

## Contents

Preface, xix	
About the Author, xxvi	
PART 1: The International Financial Environment	1
1: MULTINATIONAL FINANCIAL MANAGEMENT: AN OVERVIEW	3
1-1 Managing the MNC, 4	
1-1a How Business Disciplines Are Used to Manage the MNC, 4	
1-1b Agency Problems, 4	
1-1c Management Structure of an MNC, 6	
1-2 Why MNCs Pursue International Business, 8	
1-2a Theory of Comparative Advantage, 8	
1-2b Imperfect Markets Theory, 8	
1-2c Product Cycle Theory, 9	
1-3 Methods to Conduct International Business, 10	
1-3a International Trade, 10	
1-3b Licensing, 10	
1-3c Franchising, 11	
1-3d Joint Ventures, 11	
1-3e Acquisitions of Existing Operations, 11	
1-3f Establishment of New Foreign Subsidiaries, 12	
1-3g Summary of Methods, 12	
1-4 Valuation Model for an MNC, 13	
1-4a Domestic Model, 14	
1-4b Multinational Model, 14	
1-4c Uncertainty Surrounding an MNC's Cash Flows, 17	
1-4d Summary of International Effects, 20	
1-4e How Uncertainty Affects the MNC's Cost of Capital, 21	
1-5 Organization of the Text, 21	
2: INTERNATIONAL FLOW OF FUNDS	33
2-1 Balance of Payments, 33	
2-1a Current Account, 33	
2-1b Financial Account, 35	
2-1c Capital Account, 36	
2-1d Relationship between the Accounts, 37	
2-2 Growth in International Trade, 37	
2-2a Events That Increased Trade Volume, 37	
2-2b Impact of Outsourcing on Trade, 39	
2-2c Trade Volume among Countries, 40	
2-2d Trend in U.S. Balance of Trade, 42	
2-3 Factors Affecting International Trade Flows, 43	
2-3a Cost of Labor, 43	

2-3b Inflation, 44	
2-3c National Income, 44	
2-3d Credit Conditions, 44	
2-3e Government Policies, 44	
2-3f Exchange Rates, 48	
2-4 International Capital Flows, 52	
2-4a Factors Affecting Direct Foreign Investment, 52	
2-4b Factors Affecting International Portfolio Investment, 53	
2-4c Impact of International Capital Flows, 53	
2-5 Agencies That Facilitate International Flows, 55	
2-5a International Monetary Fund, 55	
2-5b World Bank, 56	
2-5c World Trade Organization, 57	
2-5d International Finance Corporation, 57	
2-5e International Development Association, 57	
2-5f Bank for International Settlements, 57	
2-5g OECD, 58	
2-5h Regional Development Agencies, 58	
2 ch lagonin zerotephiem ligenotes co	
3: INTERNATIONAL FINANCIAL MARKETS	63
3-1 Foreign Exchange Market, 63	
3-1a History of Foreign Exchange, 63	
3-1b Foreign Exchange Transactions, 64	
3-1c Foreign Exchange Quotations, 70	
3-1d Derivative Contracts in the Foreign Exchange Market, 74	
3-2 International Money Market, 75	
3-2a European and Asian Money Markets, 76	
3-2b Money Market Interest Rates among Currencies, 76	
3-2c Risk of International Money Market Securities, 77	
3-3 International Credit Market, 78	
3-3a Syndicated Loans in the Credit Market, 78	
3-3b Bank Regulations in the Credit Market, 79	
3-3c Impact of the Credit Crisis, 79	
3-4 International Bond Market, 80	
3-4a Eurobond Market, 80	
3-4b Development of Other Bond Markets, 81	
3-4c Risk of International Bonds, 81	
3-4d Impact of the Greece Crisis, 82	
3-5 International Stock Markets, 83	
3-5a Issuance of Stock in Foreign Markets, 83	
3-5b Issuance of Foreign Stock in the United States, 84	
3-5c Comparing the Size among Stock Markets, 85	
3-5d How Governance Varies among Stock Markets, 86	
3-5e Integration of International Stock Markets and Credit Markets, 87	
3-6 How Financial Markets Serve MNCs, 88	
Appendix 3: Investing in International Financial Markets, 95	
4: EXCHANGE RATE DETERMINATION	103
4-1 Measuring Exchange Rate Movements, 103	
4-2 Exchange Rate Equilibrium, 104	
4-2a Demand for a Currency, 105	
4-2b Supply of a Currency for Sale, 106 Copyright 2018 Cengage Learning. All Rights Reserved. May not be copied, scanned, or duplicated, in whole or in part. WCN 02-200-203	

4-2c Equilibrium Exchange Rate, 106	
4-2d Change in the Equilibrium Exchange Rate, 107	
4-3 Factors That Influence Exchange Rates, 108	
4-3a Relative Inflation Rates, 109	
4-3b Relative Interest Rates, 110	
4-3c Relative Income Levels, 111	
4-3d Government Controls, 112	
4-3e Expectations, 112	
4-3f Interaction of Factors, 114	
4-3g Influence of Factors across Multiple Currency Markets, 115	
4-3h Impact of Liquidity on Exchange Rate Adjustments, 116	
4-4 Movements in Cross Exchange Rates, 116	
4-5 Capitalizing on Expected Exchange Rate Movements, 117	
4-5a Institutional Speculation Based on Expected Appreciation, 118	
4-5b Institutional Speculation Based on Expected Depreciation, 119	
4-5c Speculation by Individuals, 120	
4-5d The "Carry Trade", 120	
5: CURRENCY DERIVATIVES	131
5-1 Forward Market, 131	
5-1a How MNCs Use Forward Contracts, 131	
5-1b Bank Quotations on Forward Rates, 132	
5-1c Premium or Discount on the Forward Rate, 133	
5-1d Movements in the Forward Rate over Time, 134	
5-1e Offsetting a Forward Contract, 134	
5-1f Using Forward Contracts for Swap Transactions, 135	
5-1g Non-Deliverable Forward Contracts, 135	
5-2 Currency Futures Market, 136	
5-2a Contract Specifications, 136	
5-2b Trading Currency Futures, 137	
5-2c Credit Risk of Currency Futures Contracts, 138	
5-2d Comparing Currency Futures and Forward Contracts, 138	
5-2e How MNCs Use Currency Futures, 139	
5-2f Speculation with Currency Futures, 141	
5-3 Currency Options Market, 142	
5-3a Currency Options Exchanges, 142	
5-3b Over-the-Counter Currency Options Market, 142	
5-4 Currency Call Options, 142	
5-4a Factors Affecting Currency Call Option Premiums, 143	
5-4b How MNCs Use Currency Call Options, 144	
5-4c Speculating with Currency Call Options, 145	
5-5 Currency Put Options, 148	
5-5a Factors Affecting Currency Put Option Premiums, 149	
5-5b How MNCs Use Currency Put Options, 149	
5-5c Speculating with Currency Put Options, 150	
5-6 Other Forms of Currency Options, 152	
5-6a Conditional Currency Options, 152	
5-6b European Currency Options, 154	
Appendix 5A: Currency Option Pricing, 165	
Appendix 5B: Currency Option Combinations, 169	

PART 2: Exchange Rate Behavior	85
6-1 Exchange Rate Systems, 187 6-1a Fixed Exchange Rate System, 187 6-1b Freely Floating Exchange Rate System, 189 6-1c Managed Float Exchange Rate System, 190 6-1d Pegged Exchange Rate System, 191 6-1e Dollarization, 197 6-1f Black Markets for Currencies, 197 6-2 A Single European Currency, 198 6-2a Monetary Policy in the Eurozone, 198	87
6-2b Impact on Firms in the Eurozone, 199	
6-2c Impact on Financial Flows in the Eurozone, 199 6-2d Impact of Eurozone Country Crisis on Other Eurozone Countries, 199	
6-2e Impact of a Country Abandoning the Euro, 202	
6-3 Direct Intervention, 203	
6-3a Reasons for Direct Intervention, 203	
6-3b The Direct Intervention Process, 204	
6-3c Direct Intervention as a Policy Tool, 207	
6-3d Speculating on Direct Intervention, 208	
6-4 Indirect Intervention, 209	
6-4a Government Control of Interest Rates, 209	
6-4b Government Use of Foreign Exchange Controls, 210	
Appendix 6: Government Intervention during the Asian Crisis, 218	
7: INTERNATIONAL ARBITRAGE AND INTEREST RATE PARITY 2	27
7-1 Locational Arbitrage, 227	
7-1a Gains from Locational Arbitrage, 228	
7-1b Realignment due to Locational Arbitrage, 228	
7-2 Triangular Arbitrage, 229	
7-2a Gains from Triangular Arbitrage, 230	
7-2b Realignment due to Triangular Arbitrage, 232	
7-3 Covered Interest Arbitrage, 232	
7-3a Covered Interest Arbitrage Process, 232	
7-3b Realignment due to Covered Interest Arbitrage, 234	
7-3c Arbitrage Example When Accounting for Spreads, 235	
7-3d Covered Interest Arbitrage by Non-U.S. Investors, 236	
7-3e Comparing Different Types of Arbitrage, 236	
7-4 Interest Rate Parity (IRP), 236	
7-4a Derivation of Interest Rate Parity, 237	
7 1h Datamaining the Famuurd Durming 220	
7-4b Determining the Forward Premium, 238	
7-4c Graphic Analysis of Interest Rate Parity, 240	
7-4c Graphic Analysis of Interest Rate Parity, 240 7-4d How to Test Whether Interest Rate Parity Holds, 242	
7-4c Graphic Analysis of Interest Rate Parity, 240 7-4d How to Test Whether Interest Rate Parity Holds, 242 7-4e Does Interest Rate Parity Hold?, 242	
7-4c Graphic Analysis of Interest Rate Parity, 240 7-4d How to Test Whether Interest Rate Parity Holds, 242 7-4e Does Interest Rate Parity Hold?, 242 7-4f Considerations When Assessing Interest Rate Parity, 243	
7-4c Graphic Analysis of Interest Rate Parity, 240 7-4d How to Test Whether Interest Rate Parity Holds, 242 7-4e Does Interest Rate Parity Hold?, 242	

8: RELATIONSHIPS AMONG INFLATION, INTEREST RATES, AND EXCHANGE RATES	257
8-1 Purchasing Power Parity (PPP), 257	237
8-1a Interpretations of Purchasing Power Parity, 257	
8-1b Rationale behind Relative PPP Theory, 258	
8-1c Derivation of Purchasing Power Parity, 258	
8-1d Using PPP to Estimate Exchange Rate Effects, 259	
8-1e Graphic Analysis of Purchasing Power Parity, 260	
8-1f Testing the Purchasing Power Parity Theory, 263	
8-1g Does Purchasing Power Parity Exist?, 265	
8-2 International Fisher Effect (IFE), 266	
8-2a Deriving a Country's Expected Inflation Rate, 266	
8-2b Estimating the Expected Exchange Rate Movement, 267	
8-2c Implications of the International Fisher Effect, 267	
8-2d Derivation of the International Fisher Effect, 270	
8-2e Graphic Analysis of the International Fisher Effect, 272	
8-2f Testing the International Fisher Effect, 273	
8-2g Limitations of the IFE Theory, 274	
8-2h IFE Theory versus Reality, 275	
8-2i Comparison of IRP, PPP, and IFE Theories, 275	
Part 2 Integrative Problem: Exchange Rate Behavior, 286	
Midterm Self-Exam, 287	
PART 3: Exchange Rate Risk Management	295
9: FORECASTING EXCHANGE RATES	297
9: FORECASTING EXCHANGE RATES 9-1 Why Firms Forecast Exchange Rates, 297	297
	297
9-1 Why Firms Forecast Exchange Rates, 297	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 309	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 309 9-3g Statistical Test of Forecast Bias, 311	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 309 9-3g Statistical Test of Forecast Bias, 311 9-3h Shifts in Forecast Bias over Time, 312	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306  9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 311 9-3h Shifts in Forecast Bias over Time, 312 9-4 Accounting for Uncertainty Surrounding Forecasts, 312	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 309 9-3g Statistical Test of Forecast Bias, 311 9-3h Shifts in Forecast Bias over Time, 312	297
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306  9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 309 9-3g Statistical Test of Forecast Bias, 311 9-3h Shifts in Forecast Bias over Time, 312 9-4a Sensitivity Analysis Applied to Fundamental Forecasting, 313	297
<ul> <li>9-1 Why Firms Forecast Exchange Rates, 297</li> <li>9-2 Forecasting Techniques, 299 <ul> <li>9-2a Technical Forecasting, 299</li> <li>9-2b Fundamental Forecasting, 299</li> <li>9-2c Market-Based Forecasting, 303</li> <li>9-2d Mixed Forecasting, 306</li> </ul> </li> <li>9-3 Assessment of Forecast Performance, 307 <ul> <li>9-3a Measurement of Forecast Error, 307</li> <li>9-3b Forecast Errors among Time Horizons, 308</li> <li>9-3c Forecast Errors over Time Periods, 308</li> <li>9-3d Forecast Errors among Currencies, 308</li> <li>9-3e Comparing Forecast Errors among Forecast Techniques, 309</li> <li>9-3f Graphic Evaluation of Forecast Bias, 309</li> <li>9-3g Statistical Test of Forecast Bias, 311</li> <li>9-3h Shifts in Forecast Bias over Time, 312</li> </ul> </li> <li>9-4 Accounting for Uncertainty Surrounding Forecasts, 312</li> <li>9-4a Sensitivity Analysis Applied to Fundamental Forecasting, 313</li> <li>9-4b Interval Forecasts, 313</li> </ul> <li>10: MEASURING EXPOSURE TO EXCHANGE RATE FLUCTUATIONS</li>	297
<ul> <li>9-1 Why Firms Forecast Exchange Rates, 297</li> <li>9-2 Forecasting Techniques, 299 <ul> <li>9-2a Technical Forecasting, 299</li> <li>9-2b Fundamental Forecasting, 303</li> <li>9-2c Market-Based Forecasting, 303</li> <li>9-2d Mixed Forecasting, 306</li> </ul> </li> <li>9-3 Assessment of Forecast Performance, 307 <ul> <li>9-3a Measurement of Forecast Error, 307</li> <li>9-3b Forecast Errors among Time Horizons, 308</li> <li>9-3c Forecast Errors over Time Periods, 308</li> <li>9-3d Forecast Errors among Currencies, 308</li> <li>9-3e Comparing Forecast Errors among Forecast Techniques, 309</li> <li>9-3f Graphic Evaluation of Forecast Bias, 309</li> <li>9-3g Statistical Test of Forecast Bias, 311</li> <li>9-3h Shifts in Forecast Bias over Time, 312</li> </ul> </li> <li>9-4 Accounting for Uncertainty Surrounding Forecasts, 313</li> <li>9-4b Interval Forecasts, 313</li> <li>10: MEASURING EXPOSURE TO EXCHANGE RATE FLUCTUATIONS</li> <li>10-1 Relevance of Exchange Rate Risk, 325</li> </ul>	
9-1 Why Firms Forecast Exchange Rates, 297 9-2 Forecasting Techniques, 299 9-2a Technical Forecasting, 299 9-2b Fundamental Forecasting, 299 9-2c Market-Based Forecasting, 303 9-2d Mixed Forecasting, 306 9-3 Assessment of Forecast Performance, 307 9-3a Measurement of Forecast Error, 307 9-3b Forecast Errors among Time Horizons, 308 9-3c Forecast Errors over Time Periods, 308 9-3d Forecast Errors among Currencies, 308 9-3e Comparing Forecast Errors among Forecast Techniques, 309 9-3f Graphic Evaluation of Forecast Bias, 309 9-3g Statistical Test of Forecast Bias, 311 9-3h Shifts in Forecast Bias over Time, 312 9-4a Accounting for Uncertainty Surrounding Forecasts, 312 9-4a Sensitivity Analysis Applied to Fundamental Forecasting, 313 9-4b Interval Forecasts, 313  10: MEASURING EXPOSURE TO EXCHANGE RATE FLUCTUATIONS 10-1 Relevance of Exchange Rate Risk, 325 10-2 Transaction Exposure, 326	
<ul> <li>9-1 Why Firms Forecast Exchange Rates, 297</li> <li>9-2 Forecasting Techniques, 299 <ul> <li>9-2a Technical Forecasting, 299</li> <li>9-2b Fundamental Forecasting, 303</li> <li>9-2c Market-Based Forecasting, 303</li> <li>9-2d Mixed Forecasting, 306</li> </ul> </li> <li>9-3 Assessment of Forecast Performance, 307 <ul> <li>9-3a Measurement of Forecast Error, 307</li> <li>9-3b Forecast Errors among Time Horizons, 308</li> <li>9-3c Forecast Errors over Time Periods, 308</li> <li>9-3d Forecast Errors among Currencies, 308</li> <li>9-3e Comparing Forecast Errors among Forecast Techniques, 309</li> <li>9-3f Graphic Evaluation of Forecast Bias, 309</li> <li>9-3g Statistical Test of Forecast Bias, 311</li> <li>9-3h Shifts in Forecast Bias over Time, 312</li> </ul> </li> <li>9-4 Accounting for Uncertainty Surrounding Forecasts, 313</li> <li>9-4b Interval Forecasts, 313</li> <li>10: MEASURING EXPOSURE TO EXCHANGE RATE FLUCTUATIONS</li> <li>10-1 Relevance of Exchange Rate Risk, 325</li> </ul>	

10-2c Transaction Exposure Based on Value at Risk, 332	
10-3 Economic Exposure, 335	
10-3a Exposure to Foreign Currency Depreciation, 336	
10-3b Exposure to Foreign Currency Appreciation, 337	
10-3c Measuring Economic Exposure, 337	
10-4 Translation Exposure, 340	
10-4a Determinants of Translation Exposure, 340	
10-4b Exposure of an MNC's Stock Price to Translation Effects, 342	
11: MANAGING TRANSACTION EXPOSURE	355
11-1 Policies for Hedging Transaction Exposure, 355	
11-1a Hedging Most of the Exposure, 355	
11-1b Selective Hedging, 355	
11-2 Hedging Exposure to Payables, 356	
11-2a Forward or Futures Hedge on Payables, 356	
11-2b Money Market Hedge on Payables, 357	
11-2c Call Option Hedge on Payables, 357	
11-2d Comparison of Techniques for Hedging Payables, 360	
11-2e Evaluating Past Decisions on Hedging Payables, 363	
11-3 Hedging Exposure to Receivables, 363	
11-3a Forward or Futures Hedge on Receivables, 363	
11-3b Money Market Hedge on Receivables, 364	
11-3c Put Option Hedge on Receivables, 364	
11-3d Comparison of Techniques for Hedging Receivables, 367	
11-3e Evaluating Past Decisions on Hedging Receivables, 370	
11-3f Summary of Hedging Techniques, 370	
11-4 Limitations of Hedging, 371	
11-4a Limitation of Hedging an Uncertain Payment, 371	
11-4b Limitation of Repeated Short-Term Hedging, 371	
11-5 Alternative Methods to Reduce Exchange Rate Risk, 373	
11-5a Leading and Lagging, 374	
11-5b Cross-Hedging, 374	
11-5c Currency Diversification, 374	
Appendix 11: Nontraditional Hedging Techniques, 388	
12: MANAGING ECONOMIC EXPOSURE AND TRANSLATION	
EXPOSURE	393
12-1 Managing Economic Exposure, 393	
12-1a Assessing Economic Exposure, 394	
12-1b Restructuring to Reduce Economic Exposure, 395	
12-1c Limitations of Restructuring Intended to Reduce Economic Exposure, 398	
12-2 A Case Study on Hedging Economic Exposure, 398	
12-2a Savor Co.'s Assessment of Economic Exposure, 398	
12-2b Possible Strategies for Hedging Economic Exposure, 400	
12-3 Managing Exposure to Fixed Assets, 401	
12-4 Managing Translation Exposure, 402	
12-4a Hedging Translation Exposure with Forward Contracts, 403	
12-4b Limitations of Hedging Translation Exposure, 403	
Part 3 Integrative Problem: Exchange Risk Management, 412	

PART 4: Long-Term Asset and Liability Management	415
13: DIRECT FOREIGN INVESTMENT  13-1 Motives for Direct Foreign Investment, 417  13-1a Revenue-Related Motives, 417  13-1b Cost-Related Motives, 418  13-1c Comparing Benefits of DFI among Countries, 420  13-2 Benefits of International Diversification, 421  13-2a Diversification Analysis of International Projects, 422  13-2b Diversification among Countries, 424  13-3 Host Government Impact on DFI, 424  13-3a Incentives to Encourage DFI, 425  13-3b Barriers to DFI, 425  13-4 Assessing Potential DFI, 427  13-4a A Case Study of Assessing Potential DFI, 427  13-4b Evaluating DFI Opportunities That Pass the First Screen, 429	417
14: MULTINATIONAL CAPITAL BUDGETING 14-1 Subsidiary versus Parent Perspective, 437 14-1a Tax Differentials, 437 14-1b Restrictions on Remitted Earnings, 438 14-1c Exchange Rate Movements, 438 14-1d Summary of Factors That Distinguish the Parent Perspective, 438 14-2 Input for Multinational Capital Budgeting, 439 14-3 Multinational Capital Budgeting Example, 441 14-3a Background, 441 14-3b Analysis, 442 14-4 Other Factors to Consider, 443 14-4a Exchange Rate Fluctuations, 444 14-4b Inflation, 447 14-4c Financing Arrangement, 447 14-4d Blocked Funds, 450 14-4e Uncertain Salvage Value, 451 14-4f Impact of Project on Prevailing Cash Flows, 452 14-4g Host Government Incentives, 453 14-5 Adjusting Project Assessment for Risk, 454 14-5a Risk-Adjusted Discount Rate, 454 14-5b Sensitivity Analysis, 454 14-5c Simulation, 457 Appendix 14: Incorporating International Tax Law in Multinational Capital Budgeting, 469	437
15: INTERNATIONAL CORPORATE GOVERNANCE AND CONTROL 15-1 International Corporate Governance, 477 15-1a Governance by Board Members, 477 15-1b Governance by Institutional Investors, 478 15-1c Governance by Shareholder Activists, 478 15-2 International Corporate Control, 479 15-2a Motives for International Acquisitions, 479 15-2b Trends in International Acquisitions, 479	477

15-2c Barriers to International Corporate Control, 480	
15-2d Model for Valuing a Foreign Target, 481	
15-3 Factors Affecting Target Valuation, 482	
15-3a Target-Specific Factors, 482	
15-3b Country-Specific Factors, 483	
15-4 A Case Study of Valuing a Foreign Target, 484	
15-4a International Screening Process, 484	
15-4b Estimating the Target's Value, 485	
15-4c Uncertainty Surrounding the Target's Valuation, 487	
15-4d Changes in Market Valuation of Target over Time, 487	
15-5 Disparity in Foreign Target Valuations, 488	
15-5a Expected Cash Flows of the Foreign Target, 488	
15-5h Exchange Rate Effects on Remitted Earnings, 489	
15-50 Exchange Rate Effects on Remitted Earnings, 465 15-5c Required Return of Acquirer, 489	
15-6 Other Corporate Control Decisions, 490	
15-6a International Partial Acquisitions, 490	
15-6b International Acquisitions of Privatized Businesses, 490	
15-6c International Divestitures, 491	
15-7 Corporate Control Decisions as Real Options, 492	
15-7a Call Option on Real Assets, 492	
15-7b Put Option on Real Assets, 493	
16: COUNTRY RISK ANALYSIS	503
16-1 Country Risk Characteristics, 503	
16-1a Political Risk Characteristics, 503	
16-1b Financial Risk Characteristics, 506	
16-2 Measuring Country Risk, 507	
16-2a Techniques for Assessing Country Risk, 508	
16-2b Deriving a Country Risk Rating, 509	
16-2c Comparing Risk Ratings among Countries, 511	
16-3 Incorporating Risk in Capital Budgeting, 512	
16-3a Adjustment of the Discount Rate, 512	
16-3b Adjustment of the Estimated Cash Flows, 512	
16-3c Analysis of Existing Projects, 515	
16-4 Preventing Host Government Takeovers, 516	
16-4a Use a Short-Term Horizon, 516	
16-4b Rely on Unique Supplies or Technology, 516	
16-4c Hire Local Labor, 516	
16-4d Borrow Local Funds, 516	
16-4e Purchase Insurance, 517	
16-4f Use Project Finance, 517	
•	
17: MULTINATIONAL CAPITAL STRUCTURE AND COST OF CAPITAL	527
17-1 Components of Capital, 527	
17-1a Retained Earnings, 527	
17-1b Sources of Debt, 528	
17-1c External Sources of Equity, 529	
17-2 The MNC's Capital Structure Decision, 530	
17-2a Influence of Corporate Characteristics, 531	
17-2b Influence of Host Country Characteristics, 531	
17-2c Response to Changing Country Characteristics, 532	
1. 20 100point to Onninging Country Characteristics, 332	

17-3 Subsidiary versus Parent Capital Structure Decisions, 533	
17-3a Impact of Increased Subsidiary Debt Financing, 533	
17-3b Impact of Reduced Subsidiary Debt Financing, 533	
17-3c Limitations in Offsetting a Subsidiary's Leverage, 534	
17-4 Multinational Cost of Capital, 534	
17-4a MNC's Cost of Debt, 534	
17-4b MNC's Cost of Equity, 534	
17-4c Estimating an MNC's Cost of Capital, 535	
17-4d Comparing Costs of Debt and Equity, 535	
17-4e Cost of Capital for MNCs versus Domestic Firms, 536	
17-4f Cost-of-Equity Comparison Using the CAPM, 537	
17-5 Cost of Capital across Countries, 539	
17-5a Country Differences in the Cost of Debt, 540	
17-5b Country Differences in the Cost of Equity, 541	
17 30 Country Differences in the Cost of Equity, 311	
18: LONG-TERM DEBT FINANCING	551
18-1 Debt Denomination Decision of Foreign Subsidiaries, 551	
18-1a Foreign Subsidiary Borrows Its Local Currency, 551	
18-1b Foreign Subsidiary Borrows Dollars, 553	
18-2 Debt Denomination Analysis: A Case Study, 553	
18-2a Identifying Debt Denomination Alternatives, 553	
18-2b Analyzing Debt Denomination Alternatives, 554	
18-3 Loans Facilitate Financing, 555	
18-3a Using Currency Swaps, 555	
18-3b Using Parallel Loans, 556	
18-4 Debt Maturity Decision, 559	
18-4a Assessment of the Yield Curve, 559	
18-4b Financing Costs of Loans with Different Maturities, 559	
18-5 Fixed versus Floating Rate Debt Decision, 560	
18-5a Financing Costs of Fixed versus Floating Rate Loans, 560	
18-5b Hedging Interest Payments with Interest Rate Swaps, 561	
Part 4 Integrative Problem: Long-Term Asset and Liability Management, 572	
Tare I integrative Fromein. Long Ferm 755ce and Elability Management, 572	
PART 5: Short-Term Asset and Liability Management	575
19: FINANCING INTERNATIONAL TRADE	577
19-1 Payment Methods for International Trade, 577	
19-1a Prepayment, 577	
19-1b Letters of Credit, 578	
19-1c Drafts, 580	
19-1d Consignment, 581	
19-1e Open Account, 581	
19-1f Impact of the Credit Crisis on Payment Methods, 581	
19-2 Trade Finance Methods, 581	
19-2a Accounts Receivable Financing, 582	
19-2b Factoring, 582 19-2c Letters of Credit (L/Cs), 583	
19-2d Banker's Acceptances, 583	
19-2e Medium-Term Capital Goods Financing (Forfaiting), 586	
19-2f Countertrade, 586	