

Contents

Preface	xi
Acknowledgments	xv
CHAPTER 1	
Introduction to Foreign Exchange	1
Defining Money	1
Participants in the Foreign Exchange Market	2
Identifying Currencies and Exchange Rates	4
Quotation Conventions	5
The Foreign Exchange Market	6
Foreign Exchange Regimes	11
Exchange Rate Controls	12
The Structure of the Foreign Exchange Market	12
Banks' Identification Codes	13
The Authorities	15
Spot Foreign Exchange Deals	17
Profit and Loss on a Simple Trade	18
Value Dates	19
Forward Foreign Exchange and Covered Interest Parity	20
Forward Swaps	21
Non-Deliverable Forwards	22
Summary	22
Appendix 1.1: ISO Currency Codes	23
References	34
CHAPTER 2	
Options on Foreign Exchange	35
Option Basics	35
Put–Call Parity	37
The Importance of Option Models	39
Risk Parameters	41
The Minor Greeks	44

More on Delta	45
Portfolios of Options	50
American Exercise Models	51
Volatility	52
Important Option Strategies	55
Option Market Making	56
Non-Deliverable Options	56
Barrier Options	58
Binary Options	65
Barrier Determination Agency	69
Other Exotic Options	70
More on Option-Related Risks	70
Summary	72
Appendix 2.1: Further Comments on Put–Call Parity	72
Appendix 2.2: Black-Scholes-Merton Model	74
Appendix 2.3: Barrier and Binary Options	75
References	78
CHAPTER 3	
How Trades are Executed and Confirmed	81
Spot Foreign Exchange Deals	83
Forward Outright Deals	83
Forward Swap Deals	85
Option Trades	87
How Foreign Exchange Trades are Executed	88
Concentration in Market Making	89
Example of an Electronic Trading Platform: FXall	92
Trade Documentation Cycle	97
Internal Operations and Reports for Dealers	141
Summary	159
Appendix 3.1: Transactions at Daily Fixings	160
References	160
CHAPTER 4	
Foreign Exchange Settlement	161
Settlement Instructions for an Individual Spot Foreign Exchange Deal	161
Overview of the Settlement Process	170
The Bretton Woods-Smithsonian Period	171
The Herstatt Legacy	172
Settlement Risk	173

Netting	176
How the Modern Settlement Systems Developed	181
Large-Value Transfers	186
Central Bank Involvement	186
Correspondent Banking	187
Payment Systems	187
Designated-Time Net Settlement (DTNS)	189
Real-Time Gross Settlement (RTGS)	189
Examples of Modern Payment Systems	192
CLS Bank International	203
Internal Controls	208
Summary	209
References	209

CHAPTER 5

Master Agreements

Master Agreements	211
Motivation	212
The Architecture	214
The FXC Master Agreement Forms	215
The ISDA Master Agreement Forms	215
Single Agreement	217
Non-Reliance: Parties to Rely on Their Own Expertise	219
Netting: Payment or Settlement Netting and Novation Netting	220
Events of Default	221
Termination Events	228
Additional Termination Events	230
Close-Out Netting	231
Safe Harbors	232
Early Termination	233
Payments Upon Termination and Close-Out Amounts	234
Close-Out Amount: 2002 ISDA	236
Set-Off Provisions	241
Special Features for Options: ICOM and FEOMA	241
Special Features for Non-Deliverable Forwards	242
Miscellaneous Issues	242
More on Deeds of Adherence and Schedules	245
Summary	245
Appendix 5.1: IFXCO Terms	246
Appendix 5.2: IFXCO Adherence Agreement	275
References	281

CHAPTER 6	
Margin and Collateral	283
Credit Agreements	283
Framework for the ISDA Credit Support Deed and the FXC Collateral Annex	285
Framework for the ISDA Credit Support Annexes	293
Enforcement Rights of the Secured Party	294
Some Additional Features Commonly Found in Credit Support Documents	296
The Value-at-Risk Concept	297
VaR for Spot, Forward, and Vanilla Options	298
Portfolio Value-at-Risk	305
Sample Customer Credit Snapshot	310
Limitations of VaR	310
Limitations of Collateralized Agreements	313
Summary	313
Appendix 6.1: The 1999 Collateral Annex to FEOMA, IFEMA, or ICOM Master Agreement	314
References	337
CHAPTER 7	
Foreign Exchange Prime Brokerage	339
Overview of FX Prime Brokerage	339
Pros and Cons of FX Prime Brokerage	341
Execution and Confirmation in an FX Prime Brokerage Environment	343
The Legal Architecture of FX Prime Brokerage	345
The FX Prime Broker and the Executing Dealer	346
The Master FX Give-up Agreement	346
Other Elements of the Master FX Give-up Agreement	354
The FX Prime Broker and the Designated Party	359
The Executing Dealer and the Designated Party	366
Reverse Give-Up Relationships	366
Summary	368
Appendix 7.1: Master FX Give-Up Agreement	369
Appendix 7.2: Compensation Agreement	384
References	388
About the Author	389
Index	391