

CONTENTS

Introduction to the Series	v
Acknowledgments	ix
<i>Chapter 1. Introduction</i>	1
1. Scope of the study	1
2. Overview of the study	3

***Part I: A theoretical analysis of the monetary sector
in an open economy***

<i>Chapter 2. Monetary equilibrium in an open economy</i>	
1. Introduction	9
2. The interest rate in a closed economy	10
2.1. An outline of the financial sector	10
2.2. Monetary equilibrium	11
2.3. The impact of monetary policy	12
3. The interest rate in an open economy	14
3.1. The demand for bank reserves	14
3.2. The supply of bank reserves	16
3.3. Capital mobility and the effectiveness of monetary policy	18
3.3.1. Perfect capital mobility	18
3.3.2. Imperfect mobility	21
3.4. Sterilization	23
3.5. Sterilization and offsetting capital flows: An empirical conundrum	25
3.6. The monetary impact of foreign and domestic disturbances	27
3.6.1. Income	29
3.6.2. Temporary current account surplus	31
3.6.3. Foreign interest rates	32
4. The implications of interest-sensitive bank behavior	32
4.1. Modification of the model	36
4.2. Discount policy	37
5. Conclusion	37
5.2. Relation of model to the monetary approach to the balance of payments	38
5.3. Summary of results	39

Appendix A. Some comparative statics results	41
A.1. How the exogenous variables affect the interest rate and bank reserves	41
A.2. The net offset coefficient	47
Appendix B. The sterilization coefficient in a formal model of policy behavior	48
Chapter 3. The interaction between the forward exchange market and national money markets	55
1. Forward exchange theory and policy: The need for an expanded analysis	55
2. The traditional analysis of the forward market	57
3. An expanded model	61
4. Forward intervention to control domestic monetary conditions	64
5. How forward market adjustments modify shocks to the money market	67
6. Conclusion	70
Appendix A. Some comparative statics results for the forward market	71
A.1. Notation	71
A.2. The market equilibrium curves	71
A.3. Conditions under which the forward premium insulates the money market	73
A.4. Perfect capital mobility	75
Chapter 4. The Eurocurrency markets and their interaction with the forward exchange and national money markets	79
1. Introduction	79
2. The Eurocurrency market and the forward market	81
2.1. Some preliminary assumptions	81
2.2. The market for Euromark deposits and loans	81
2.3. The forward market and Eurocurrency arbitrage	85
2.4. Adjustment to disturbances in either market	88
2.5. Eurocurrency intervention as a substitute for forward intervention	90
3. National and Eurocurrency interest rates	93
3.1. The forward market with national and Eurocurrency transactions	93
3.2. An integrated analysis of the national and Eurocurrency markets	95
3.3. Substitutability between assets and interest parity	97
4. Conclusion	98
Appendix A. Some comparative statics results involving the Eurocurrency markets	99
A.1. Notation	99
A.2. The forward premium and Eurocurrency rates in isolation from the home country money market	99
A.3. National and Eurocurrency interest rates	101

Part II: A structural model of the German monetary sector

Chapter 5. An empirical model of the German monetary sector: The supply of bank reserves	109
1. Introduction	109
2. The capital account	110
2.1. The specification of the capital flow equations	110
2.2. Some problems in the empirical application of the model	112
2.2.1. The representation of wealth	112
2.2.2. Foreign and domestic interest rates	113
2.2.3. Lagged adjustment to changes in interest rates	114
2.2.4. Seasonal disturbances	115
2.2.5. Speculative disturbances	115
2.3. The empirical results	117
2.3.1. The change in liabilities to foreigners	118
2.3.2. The change in claims on foreigners	120
2.3.3. The interest sensitivity of the capital account	122
2.3.4. Stock shifts and continuing flows	125
2.4. Adjustments in the forward premium	128
3. Investment income and the flow of foreign exchange reserves	131
3.1. The interest sensitivity of investment income	131
3.2. Receipts of investment income	132
3.3. Payments of investment income	134
3.4. Interaction with capital flows	135
3.4.1. The stock of claims and liabilities	135
3.4.2. The balance of payments impact of changes in interest rates	136
3.5. The flow of foreign exchange reserves	139
4. The reaction function	139
4.1. The role of the reaction function	139
4.2. The instruments of monetary policy	140
4.3. The dependent variable in the reaction function	143
4.4. Estimates of the reaction function	150
4.4.1. General functional form	150
4.4.2. The influence of domestic targets	151
4.4.3. The sterilization coefficient	155
4.5. Sterilization behavior and offsetting capital flows: The question of causation	157
4.6. Conclusion	160
Appendix A. The interest sensitivity of investment income when holdings of official reserves earn interest income	162
 Chapter 6. An empirical model of the German monetary sector; the demand for bank reserves and the behavior of the whole model	 167
1. Recapitulation and introduction	167
2. Bank deposits	168

2.1. Formulation of the deposit equations	168
2.2. Problems in the empirical specification of the equations	169
2.2.1. Deposit series	169
2.2.2. Interest rates	170
2.2.3. Income and wealth	172
2.3. The deposit equations	172
2.3.1. Sight deposits	173
2.3.2. Time and savings deposits	174
2.3.3. Total deposits	177
3. Overview of the model	177
3.1. Linkage of the supply and demand sectors	177
3.2. Outline of the monetary sector	179
3.3. Model error statistics	181
4. Offsets, sterilization, and the behavior of the German monetary sector	184
4.1. Introduction	184
4.2. German monetary policy and offsetting capital flows	186
4.2.1. The demand sector response	187
4.2.2. The full model response	188
4.3. The effect of foreign disturbances: A rise in the Eurodollar rate	191
4.3.1. The impact on the German money market rate	191
4.3.2. The impact on the balance of payments	196
4.3.3. The insulation provided by adjustments in the forward premium	197
4.4. The effect of foreign disturbances: A temporary current account surplus	197
4.5. Response to a domestic disturbance: An increase in income	198
5. Conclusion	204
Appendix A. German data	206
A.1. Linkage of the demand and supply sectors	206
A.2. Listing of the German equations	208
A.3. Definitions of series and sources	211

**PART III: European interest rates and the transmission of
U.S. monetary policy**

<i>Chapter 7. The determination of European national interest rates</i>	227
1. Introduction: The specification of the interest rate equations	227
1.1. Domestic factors	229
1.2. Balance of payments factors	230
1.2.1. The exogenous stock of foreign exchange reserves	231
1.2.2. The foreign interest rate and the speculative premium	231
1.2.3. Export and import orders	233
1.3. The empirical results: Some preliminary considerations	234
2. The Dutch interest rate	235
3. The Italian interest rate	240
4. The Swiss interest rate	244
5. The British interest rate	249

6. The French interest rate	257
7. Patterns of interest rate determination in the national markets of Europe	262
 <i>Chapter 8. The Eurodollar market and the transmission of U.S. monetary policy to Europe</i>	 269
1. Introduction	269
2. The determination of the Eurodollar interest rate	271
2.1. A simplified model of the Eurodollar market	271
2.2. The relationship between the U.S. and Eurodollar markets	276
2.3. Specification and estimation of an equation for the Eurodollar interest rate	279
3. The transmission of U.S. monetary policy	285
3.1. Outline of the empirical model	285
3.2. Simulations of the model	287
4. Conclusion	291
Appendix A. European data	293
 Index	 299