## **Table of Contents**

Index of Ta Index of Fig	bles	H
Book I. T	he Pure Theory of International Trade Page I.1–I.29	<b>)</b> 7
1 Introdu	ction	3
1.1 1.2 Perference	International Economics as a distinct subject	3 5 6
	ssical (Ricardo-Torrens) theory of comparative costs	7
2.1 2.2 2.3 2.3.1 2.3.2 2.4 2.4.1 2.4.2 2.5 Append A.2.1 A.2.2	Comparative costs (advantages) and international trade Alternative graphic representations A modern interpretation in terms of optimization.  Maximization of real income in each country  Maximization of real world income.  Generalizations Two goods and n countries m goods and n countries The problem of the determination of the terms of trade ix  Maximization of world income and the dual problem	7 10 14 14 16 18 20 23 24 24
A.2.3 Reference	On the determination of the terms of trade	28 32
3 The nec	oclassical theory of international trade	33
3.1 3.2 3.2.1 3.2.2 3.2.3	General equilibrium in a simple closed economy The supply curves The demand curves General equilibrium and Walras' law	33 38 38 40 41
3.3 3.4 3.4.1	General equilibrium in open economies and international trade	42 45 45
3.4.1 3.4.2 3.5 3.6 3.7	International equilibrium and stability	47 52 54 57

	Appendi		8
	A.3.1	The transformation curve and the box diagram	8
	A.3.1.1	A formal derivation of the transformation curve and its properties 5	8
	A.3.1.2	The convexity or concavity of the transformation curve 6	0
	A.3.1.3	Homogeneous production functions and the transformation curve 6	1
	A.3.2	A simple closed economy 6	3
	A.3.2.1	The basic model	
	A.3.2.2	The supply side of the model	_
	A.3.2.3	The demand side of the model 6	
	A.3.3	International trade and offer curves	
	A.3.3.1		_
	A.3.3.2	F	
	A.3.4	Stability	
	A.3.4.1	Terms-of-trade adjustment 6	_
	A.3.4.2	Quantity adjustments	9
	A.3.5	Duality approach	1
	Deference	es	5
4	The Hec	kscher-Ohlin model	6
	4.1	Basic assumptions and their meaning	6
	4.1.1	Relative price of goods and relative price of factors	ō
	4.2	Proof of the fundamental theorem	-
	4.3	Factor price equalization	
	4.3.1	Factor price equalization	
	4.4	Extensions and qualifications	_
	4.4.1	Non-identical structures of demand	_
	4.4.2	Factor-intensity reversals	
	4.5	Leontief's paradox and other empirical studies	4
	Annendi	x	R
	A.4.1	Factor-intensity reversals	
	A.4.2	Proof of the fundamental theorem	
	A.4.3	The factor price equalization theorem	
	A.4.4	A brief outline of the generalizations of the Heckscher-Ohlin model 10	
	Referenc		
5	Tariffs, p	protection, economic integration	7
	5.1	Introduction	7
	5.2	Partial equilibrium effects of a tariff	7
	5.3	The so-called social costs of a tariff	ģ
	5.4	General equilibrium effects of a tariff	ź
	5.4.1	The production-possibilities frontier and tariffs.	_
	J. 11.1	The Stolper-Samuelson theorem	2
	5.4.2	Tariffs and reciprocal demand curves	2
	5.4.2.1	The Metzler and Lerner cases	
	5.4.3	The optimum tariff	
	5.5	Quotas and other non-tariff barriers	2
	5.5.1	Quotas	5
	5.5.2	Export duties	
	5.5.3	International cartels	
	5.5.4	Dumping	
	5.5.5	Other impediments to free trade	
	5.6	Free trade versus protection and the theory of second best	
	5.6.1	The optimum tariff again	
	5.6.2	The infant industry	5
	5.6.3	Distortions in domestic goods markets	7

		Table of Contents	XIII
	5.6.4 5.6.5 5.6.6	Distortions in domestic factor markets	. 141 . 142
	5.7 5.8 5.8.1 5.8.2 5.8.3	Intermediate goods and the effective rate of protection Customs unions and economic integration	. 147 . 147 . 148 . 153
	Appendix A.5.1 A.5.2 A.5.3 A.5.4 A.5.5 A.5.6 Reference	General equilibrium effects of a tariff: the Stolper-Samuelson theorem.  Tariffs, terms of trade, domestic relative price	. 154 . 154 . 157 . 158 . 160 . 162
		onal trade and economic growth	
,	6.1 6.2 6.2.1 6.2.2 6.2.3	Introduction	. 164 . 164 . 165 . 166
	6.3 6.3.1 6.3.2	Growth and terms of trade; immiserizing growth	. 169 . 169
	6.4 6.4.1 6.4.2	Increase in factor endowments and international trade: Rybczynski's theorem	. 172
	6.5 6.5.1 6.5.2	Technical progress and international trade	. 176
	6.5.3 6.5.3.1 6.5.3.2 6.5.4	Effects of biased technical progress	. 180 . 181 . 182 . 184
	6.6 6.6.1 6.6.2	Dynamic models	. 186 . 189
	A.6.1 A.6.2 A.6.2.1	Classification of the effects of growth	. 190 . 192
	A.6.3 A.6.3.1	Changes in factor endowments, Rybczynski's theorem, and the terms of trade	. 196 . 199
	A.6.4 A.6.4.1	Technical progress	. 201
	A.6.4.2 A.6.4.3 A.6.5	and factor rewards	. 207
	A.6.5.1	A simple model	. 207

## XIV Table of Contents

	A.6.5.2 A.6.5.3 Reference	Momentary equilibrium	211
7	Some res 7.1 7.2 7.3 7.4 7.5 7.6	finements of the orthodox theory	215 215 219 222 223
	7.7 7.8 7.9	"Dutch disease" and de-industrialization	232 236
	Appendi A.7.1 A.7.2 A.7.2.1 A.7.2.2 A.7.3 A.7.4 A.7.4.1	The cost of transport	242 242 242 244 247 249 250
	A.7.5 A.7.5.1 A.7.6 A.7.7 A.7.8 Reference	Specific factors and de-industrialization	254 255 257 260
8	The "new 8.1 8.2 8.3 8.4 8.5 8.6 8.6.1 8.6.2 8.7 8.7.1 8.7.2	w" theories of international trade Introduction Vent for surplus Availability Technology gaps The product cycle Income effects Linder's theory Barker's variety hypothesis Intra-industry trade Perfectly homogeneous goods Differentiated products	263 263 265 266 268 270 270 272 273 274
9	A.8.1 A.8.2 Reference	Introductory remarks	277 277 278 281 283
		Intermediate and capital goods in the orthodox theory  The debate between the orthodox theory and the neo-Ricardian theories	283 284 285 288

Bo		ernational Monetary Theory and en-Economy Macroeconomics	P	age	: Il	[.1-	-11.485
10	The foreign	n exchange market					. 3
	10.1	Introduction					. 3
	10.2	The spot exchange market					. 6
	10.3	The forward exchange market and swap transactions .					. 8
	10.3.1	Introduction					{
		Various covering alternatives; forward premium and disc	ou	nt			. 10
	10.3.3	Covered interest arbitrage	•	•	•	٠	. 1.
	10.3.4	Swap transactions	•	٠	٠	•	. 14
	10.4	The transactors in the foreign exchange market		•			. 16
	10.4.1	A digression on speculation	•	•	٠	•	. 10
	10.4.2	Other transactors	٠	٠	•	٠	. 20
	10.5	The various exchange-rate regimes		•	•	•	. 21
	10.5.1	The two extremes	•	٠	•	٠	. 21
	10.5.2	The Bretton Woods system.	•	•	٠	٠	. 2
	10.5.3 10.5.4	The current nonsystem	•	•	•	•	. 25
		The current nonsystem	•	•	•	•	. 2.
	10.6	Euro-dollars and Xeno-currencies: an introduction					
	Appendix						. 30
	A.10.1	N-point arbitrage	٠.			٠.	. 30
	A.10.2	On the measure of the approximation error of the interes	t d	liffe	ere	nti	al 32
	A.10.3	Marginal conditions and portfolio selection theory					2.
	1021	in speculative equilibrium	•	•	•	٠	. 3.
	A.10.3.1 A.10.3.2	Proof of the marginal conditions	•	•	•	•	. 3.
		8					
11	Balance of	f payments and national accounts					
	11.1	Balance of payments accounting and presentation					. 42
	11.1.1	Introduction					. 42
	11.1.2	Accounting principles	•		•		. 44
	11.1.3	Standard components	٠		٠	٠	. 49
	11.1.3.I	Current account.	٠.	•	٠	٠	. 49
	11.1.3.II	Capital account	•	•	•	•	. 3,
	11.2	The meaning of "surplus", "deficit", and "equilibrium"					
	11.2	in the balance of payments	•	•	•	•	. 5.
	11.3 11.4	The international adjustment process and open-economy	•	•	•	•	. 5
	11.4	macroeconomics: an overview					6
		The second secon	•	٠	٠	٠	. 6
	A.11.1	The presentation of the US balance of payments Illegal transactions in the balance of payments	•	٠	٠	٠	. 00
	A.11.2	megai transactions in the balance of payments	•	•	•	٠	
	References	3	•	•	٠	٠	. 70
12	The role of	of the exchange rate in the adjustment process					
	in a partia	al equilibrium framework					. 78
	12.1	Introduction					. 78
	12.2	Critical elasticities and the so-called Marshall-Lerner cor					
	12.2.1	The balance of payments in domestic currency		•		•	. 8:
	12.2.2	The balance of payments in foreign currency		٠	٠	٠	. 8
	12.2.3	Partial vs total elasticities		٠	٠	٠	. 83
	12.2.4	A note on terminology					. 80

12.3 The equilibrium exchange rate; multiple equilibria and stability	87 88 93 94
12.4 Interrelations between the spot and forward exchange rate	95 95 99
Appendix A.12.1 The critical elasticities condition A.12.1.1 The simple case A.12.1.2 The general case A.12.1.3 Effects on the terms of trade A.12.2 The stability of the foreign exchange market A.12.3 A framework for the simultaneous determination of the spot and forward exchange rate  References.	104 109 109 110
13 The role of income changes in the adjustment process	114
13.1 Introduction	114 115
13.2.2 Balance-of-payments adjustment in the case of an exogenous increase in exports	118
13.3 Foreign repercussions	122 122 123
13.4       Intermediate goods and the multiplier       1         13.4.1       Introductory remarks       1         13.4.2       Different requirements of intermediate goods       1         13.4.3       Identical requirements of intermediate goods       1         13.4.4       Some empirical results       1	129 130
Appendix	133 135 136 136
A.13.2.2 Stability analysis	141 141 141 143 144
A.13.4 The balance of payments	

		Table of Contents	XVII
14	The absor	rption approach and interactions between exchange rate ne in the adjustment process	150
	14.1 14.2 14.3	The absorption approach	150
	14.3.1 14.3.2 14.3.3 14.3.4	The basic model.  A graphic representation Stability and comparative statics.  The J-curve	155 <b>,</b> 157
	Appendix A.14.1 A.14.2 A.14.2.1 A.14.2.2 A.14.2.3	Alexander's synthesis .  A simplified version of the Laursen and Metzler model The RR and BB schedules .  The dynamics of the system Comparative statics .	164 164 165 166 167 168
	A.14.3 A.14.4 A.14.4.1 A.14.4.2 A.14.4.3	The J-curve	172 172 174
	References	s	177
15	Money an under fixe	nd other assets in the adjustment process de exchange rates.	178
	15.1 15.2 15.2.1 15.2.2 15.2.3	Introduction	178 178 178 181
	15.3 15.3.1 15.3.2 15.3.3	The monetary approach to the balance of payments	187 187 191
	15.4 15.4.1 15.4.2 15.4.3 15.4.3.1 15.4.4	Macroeconomic equilibrium in a standard Keynesian-type open model Introductory remarks	196 198 201 205
	15.5.1 15.5.2 15.5.2.1 15.5.3.1	Monetary and fiscal policy for external and internal balance.  The assignment problem. The coordination problem  Introductory remarks	211 213 216 218
	15.6 15.6.1 15.6.2 15.6.3 15.6.3.1 15.6.3.2 15.6.3.3	Portfolio equilibrium in an open economy Introduction	221 221 221 225 225 226

## XVIII Table of Contents

	Appendix		232
	A.15.1	A formal interpretation of the classical theory	232
	A.15.2	The monetary approach to the balance of payments	234
	A.15.2.1	A simple model	234
	A.15.2.2	A two-country model	235
	A.15.2.3	The effects of a devaluation	238
	A.15.3	Macroeconomic equilibrium in a standard Keynesian-type model	
	A.15.3.1	The slopes of the various schedules	239
	A.15.3.2	The study of dynamic stability	240
	A.15.3.2 A.15.3.3	Comparative statics	242
	A.15.4	Monetary and fiscal policy and internal and external balance	245
		The static model	245
	A.15.4.1	The static model	243
	A.15.4.2	The assignment problem	247
	A.15.5	The problem of coordination	249
	A.15.5.1	The basic model	249
	A.15.5.2	International coordination compared to simple pairing	251
	A.15.5.3	International coordination compared to internal coordination	
	A.15.6	Portfolio equilibrium in an open economy	254
	A.15.6.1	The case of partial equilibrium	254
	A.15.6.2	Portfolio and macroeconomic equilibrium	256
	A.15.6.2.1	The dynamics of the long-run equilibrium	257
	A.15.6.2.2	The dynamics of the long-run equilibrium	259
16	Money an	d other assets in the adjustment process	
	under flex	ible exchange rates	264
	16.1	Introduction	264
	16.2	The critical elasticities condition is neither necessary nor sufficient .	264
	16.2.1	The basic model	265
	16.2.2	Non-necessity and non-sufficiency of the critical elasticities condition	267
	16.3	Monetary and fiscal policy for internal and external balance in	
	10.5	the standard Keynesian macroeconomic model,	
		and the choice of instruments	270
	16.3.1	Perfect capital mobility	270
	16.3.2	Perfect capital mobility	272
	16.4		
	16.4	The alleged insulating power of flexible exchanges rates and the international propagation of disturbances	27/
	16.4.1	The alleged insulating power	274
		The propagation of disturbances in a simple model	276
	16.4.2 16.4.3	The propagation of disturbances in a simple model	277
		The propagation of disturbances in a two-country moder	277
	16.5	The new Cambridge school of economic policy	2/5
	16.5.1	Introductory remarks	2/9
	16.5.2	The basic model	280
	16.5.3		283
	16.6	Portfolio and macroeconomic equilibrium in an open economy	285
	16.6.1	Introductory remarks	285
	16.6.2	The basic model	287
	16.6.3	Static expectations	290
	16.6.4	Rational expectations	293
	A 1'	-	296
	Annandiv		
	Appendix	The critical elasticities condition is neither necessary nor sufficient	
	A.16.1	The critical elasticities condition is neither necessary nor sufficient.	296
	A.16.1 A.16.2	The critical elasticities condition is neither necessary nor sufficient. On the choice of policy instruments	296 298
	A.16.1	The critical elasticities condition is neither necessary nor sufficient.	296 298 298

		ר	Γable	of C	onte	ent	S			XIX
	A.16.3	On the alleged insulating power of flexible exchand the propagation of disturbances	ange	rate	s					302
	A.16.3.1	The one-country model	•		:				:	302
	A.16.3.1	The two-country model	•		:	•	:			306
	A.16.4	The new Cambridge school								
	A.16.4.1	The basic model			:					308
	A.16.4.2	An extension								312
	A.16.5	Portfolio and macroeconomic equilibrium								
	A.16.5.1	The basic model								315
	A.16.5.2	Static expectations								317
	A.16.5.2.1	Short-run equilibrium								317
		Long-run equilibrium								320
	A.16.5.3	Rational expectations								
	A.16.6	Forward market intervention					•		٠	326
	References					•				327
17	Internatio	nal capital movements and other problems								328
		Introduction								
	17.1 17.2	Short-term capital movements and foreign-exch	ange	ene	mila	tio	'n	•	•	328
	17.2.1	The main types of short-term capital movement	iange ts	spec	Juia	uo		•	•	328
	17.2.2	Flexible exchange rates and speculation						•	:	330
	17.3	Long-term capital movements								
	17.4	The transfer problem	•			•		•	•	336
	17.4.1	The transfer problem								336
	17.4.2	The traditional setting								337
	17.4.3	Observations and qualifications								341
	17.5	Exports, growth, and the balance of payments.								343
	17.5.1	Export-led growth	•							344
	17.5.2	Growth and the balance of payments	•					•		347
	Appendix									349
	A.17.1	Speculation								349
	A.17.2	The transfer problem								351
	A.17.3	Exports, growth, and the balance of payments.			٠		•	•	٠	353
	References	3								356
10	Fixed year	sus flexible exchange rates								357
10		•								
	18.1	Introduction	•		٠	•	٠	•	٠	357
	18.2	The traditional arguments				٠	•	٠	٠	357
	18.3 18.4	The experience of the managed float	ate re	Simo	28	•	•	•	•	364
	18.4.1	Introduction	•	• •	•	•	•	•	•	364
	18.4.2	Introduction								366
	18.5	The vicious circle of depreciation-inflation								368
	18.5.1	Introductory remarks	•		•					368
	18.5.2	Introductory remarks								369
	18.5.3	Is the circle really "vicious"?								371
	18.6	Optimum currency areas and monetary integra	tion							372
	18.6.1	The traditional approach								373
	18.6.2	The cost-benefit approach								375
	18.6.3	The common monetary unit and the basket-cur								
	18.7	The European Monetary System								380
	18.7.1	Introduction			٠			•		380

XX	Table of	of Contents
----	----------	-------------

	18.7.2	The ECU	382
	18.7.3	The indicator of divergence	386
	18.7.4	Monetary cooperation within the EMS	389
	18.7.5	The EMS and the theory of optimum currency areas	392
	18.8	The equilibrium exchange rate: competing theories	
	10.0	and an eclectic approach	303
	18.8.1	The Purchasing-Power-Parity theory	302
		The furthasing-rower-rainty theory	200
	18.8.2	The traditional flow approach	393
	18.8.3	The modern approach: money and assets in the determination	•
		of the exchange rate	395
	18.8.3.1	of the exchange rate	395
	18.8.3.2	The monetary approach	396
	18.8.3.3	The portfolio approach	398
	18.8.3.4	Interaction between current and capital accounts	399
	18.8.4	Concluding remarks: towards an eclectic approach	401
	Appendix	A disequilibrium model of real and financial accumulation	403
	A.18.1	A disequilibrium model of real and financial accumulation	
		in an open economy	403
	A.18.2	Some properties of basket-currencies in general and of the	
	11.10.2	indicator of divergence in particular	<b>4</b> ∩ <sub>4</sub>
	A.18.2.1	The basket-currency	40/
		The come of the mainta	40
	A.10.2.1.1	The sum of the weights	404
	A.18.2.1.2	Solution for the quantities	403
	A.18.2.1.3	Other properties	400
	A.18.2.2	The indicator of divergence	408
	A.18.2.3	The asymmetry in the bilateral margins	410
	A.18.3	The modern approach to exchange-rate determination	411
	A.18.3.1	The monetary approach	411
	A.18.3.2	The nortfolio approach	413
	A.18.3.3	The portfolio approach	/11/
	A.18.3.4	Currency substitution.	414
	A.10.3.4	Currency substitution	71.
	References		416
	11010101100		
19	Internation	nal liquidity and international financial markets	418
.,	internation	an inquienty and international infantial markets	
	19.1	Introduction: key events in the postwar international monetary system	418
	19.1.1	Introductory remarks	418
	19.1.1	Convertibility	420
	19.1.2	Euro-dollars	421
		Custo-dollars	421
	19.1.4	Special Drawing Rights	422
	19.1.5	Collapse of Bretton Woods	424
	19.1.6	Petrodollars	427
	19.1.7	Demonetization of gold	427
	19.1.8	The EMS	430
	19.2	International liquidity and the demand for international reserves	430
	19.2.1	Introductory remarks	
	19.2.2	The descriptive approach	
	19.2.3	The optimizing approach	
	19.2.3		
		The problem of the composition of international reserves	
	19.3		438
	19.3.1		438
	19.3.2	More sophisticated multipliers	440
	19.4	The portfolio approach to Euro-markets	442
	19.5	An evaluation of the costs and benefits of Xeno-markets	444

			Ta	Table of Contents							XXI		
	Appendix											447	
	A.19.1	The optimum level of international reserves an	nd										
		the theory of economic policy										447	
	A.19.1.1	The cost-benefit approach										447	
	A.19.1.2	The maximization of a welfare function										448	
	A.19.1.3 Intertemporal maximization and the normative theory												
		of economic policy										450	
	A.19.2	The composition of international reserves .											
	A.19.3	A portfolio model of the Euro-market											
	References	3											
	References	,	•	•	•	•	•	•	•	•	•	702	
ንሰ	The probl	em of integration between the pure theory											
		tional trade and international monetary econor	mia	S								464	
	20.1	•											
	20.1	Introduction	•	•	•	•	•	•	٠	٠	•	165	
	References	3				•	٠	٠	٠	•	•	466	
												4.65	
BII	bliography		•	•	•	٠	•	•	٠	•	٠	46 /	
NТ.	T d	-f D1- I1 D1- II								т		5 7 T T T	
Na	ime index	of Book I and Book II	•	•	•	•	•	٠	٠	1	_	V 111	
2	higgt Indov	of Book I and Book II								τv		vvi	
эu	DICCL HILLCX	UI DUUK I AHU DUUK II								1/		$\Delta \Delta 1$	