CONTENTS

Lis	List of Tables List of Figures Foreword	
PA	RT I GENERAL ISSUES	
1	Introduction Opening remarks Definition of the subject Organisation of the volume	3 3 4 5
2	Fundamental Concepts General Goods markets Service markets Production factors: labour markets Production factors: capital markets Policy; positive integration Summary and conclusions	9 15 17 20 23 27 30
3	Short History Introduction Until 1815, a traditional world with little integration 1815 – 1870: progressive integration following the Industrial Revolution 1870 – 1914: stagnating integration 1914 – 1945: disintegration 1945 – the present: a new upsurge of integration Summary and conclusions	33 33 34 36 41 45 48 52
4	Institutional Economics of the European Community Objectives and means The institutions	55 55 59

vi Contents

	The Commission	62
	The Council of Ministers	64
	The European Parliament	66
	Court of Justice	67
	Laws and rules, decision making	69
	Budget	73
	Summary and conclusions	78
PA	ART II THEORETICAL FOUNDATIONS	
5	Customs Union	83
	Introduction	83
	Free trade versus protection	86
	Short-term static effects	93
	Long-term restructuring effects	103
	Summary and conclusions	112
_		
6	Common Market	115
	Introduction	115
	Integration of factor markets; disregard of goods	
	movements	117
	Interrelations between goods and factor markets and	
	the effects of barriers to movement	128
	Towards a theory of international production	136
	Summary and conclusions	143
7	Economic and Manataur, Union	
•	Economic and Monetary Union Introduction	145
		145
	Allocation policies	146
	Stabilisation; macro and monetary policies	150
	Redistribution policies	162
	External policies	166
	Some common aspects	168
	Summary and conclusions	170
PA	RT III PRODUCTS AND PRODUCTION FACTORS	
8	Goods	175
	Introduction	175
	Community regime	176
	Trade patterns	178

		Contents	vii
	Explanation of spatial trade patterns Price differences Welfare effects Summary and conclusions	1' 1'	90 93 95 99
9	Labour Introduction Community regime International exchange of labour (migration) Wage structures, convergence or divergence? Welfare effects Summary and conclusions	29 29 29 20 20 21	01 01 02 07 15 20 21
10	Capital Introduction Community regime Direct investments Portfolio investment; stock-market integration Other capital Welfare effects Summary and conclusions	2 2 2 2 2 2 2	25 25 26 31 37 40 43 44
PA]	RT IV SECTORS OF ACTIVITY		
11	Agriculture Introduction Community regime Sketch of the sector Market regulation and its effects Conflicts and solutions Summary and conclusions	2 2 2 2 2 2	49 49 50 55 59 68 71
12	Manufacturing Introduction Community regime Sketch of the sector Case study 1: Steel Case study 2: Cars Case study 3: White goods Summary and conclusions	2 2 2 2 2 2 2	73 73 74 79 85 89 93

viii Contents

13	Energy Introduction Community regime Sketch of the sector Case study 1: oil refining Case study 2: electricity Summary and conclusions	297 297 298 302 311 314 318
14	Services Introduction Community regime Sketch of the sector Case study: insurance Summary and conclusions	321 321 322 325 330 335
15	Transport Introduction Community regime Sketch of the sector Case study 1: inland goods transport Case study 2: passenger transport by air Summary and conclusions	337 337 338 346 349 353 356
PAI	RT V CONDITIONS FOR BALANCED GROWTH	
16	Allocation, Internal Market Policies (1992) Introduction Community regime Competition Direct intervention in prices and quantities Indirect influence on prices, fiscal barriers Access to markets, technical barriers Welfare effects Summary and conclusions	361 362 365 370 374 381 384 386
17	Stabilisation: Macro-Economic and Monetary Policy Introduction Community regime Monetary policy: stability of exchange rates Macro-policy: the need for convergence of inflation rates	389 389 390 395

		Contents	ix
	Growth policy, convergence of wealth levels Summary and conclusions	41 41	
18	Redistribution: Regional and Social Policies Introduction Regional disparities and policy Social policy Summary and conclusions	41 41 41 42 43	.7 .8 .9
19	External Relations Introduction External policy: general issues Trade policy: a fan of instruments Trade policy: differentiation by area From trade to foreign policy Summary and conclusions	43 43 43 44 44 45 46	19 13 19 19
PA.	RT VI CONCLUSIONS		
20	Evaluation and Outlook Introduction Progress of integration; economic indicators Progress of integration; policy indicators Welfare effects Towards new objectives Summary and conclusions	47 47 47 47 48 48 48	'1 '2 '5 31 32
AN	NEXES		
	List of Abbreviations Bibliography Index	49 49 53	7

List of Tables

3.1	Some indicators of European economic development, 1810–1870	38
3.2	Some indicators of European economic development between 1870 and 1910	42
3.3	Some indicators of European (EC12) economic development, 1913–1938	46
5.1	Effects of various forms of protection on trade and production of country A	89
5.2	Trade effects of a Customs Union, countries A and B	96
5.3	Trade and production effects of a CU under	
6.1	conditions of economies of scale (countries A and B) Welfare effects of integrated production-factor	108
	markets	118
6.2 6.3	Effects of the integration of production-factor markets Welfare effects of various trade instruments with and	122
	without capital mobility	132
6.7	The product life cycle and international production	
	. L	– 139
7.1	Effects of co-ordinated and non-co-ordinated policies on utility and its distribution among countries	156
8.1	Percentage share of goods imports and exports in total GDP (current prices), 1960–1935	179
8.2	Percentage shares of EC in total commodity imports	
	and exports of (future) member states	180
8.3	Intra-EC trade by country, 1985	182
8.4	Geographical distribution by groups of countries, of the EC12's extra-Community trade in goods, 1958,	102
	1972, 1985	185
8.5	Distribution of the EC12's foreign trade by	
	commodity group, 1962 and 1985, in percentages	187
8.6	Percentage share of member states in EC extra-	
	Community trade	188
8.7	Specialisation index of export trade in high-value	•00
	technological products, 1963–1983 (OECD = 100)	189
8.8	Average levels of intra-industry trade, in selected EC countries 1959–1980	191
8.9	Price dispersion (coefficient of variation) in the EC9,	191
-•/	by product group, 1975–1985	194

8.1	Effects of the integration of manufactured-goods	
	markets on the percentage trend growth rate of	
	EC member states	198
9.1	First work licences granted to foreign workers by the	170
	six Original EC member states 1959_1972	200
9.2	Estimate of the number of foreign labour in the EC	208
	member states, 1969–1980, and their relative	
	importance (%) on the labour market of the host	
	country	210
9.3	Total number of foreign workers in the 12 member	210
	states of the European Community by country of	
	origin (millions), and percentage shares in total	
	1about 16rce 1973=1985	211
9.4	Female-male earnings differential (ratio) 1972, EC6	219
10.1	Direct foreign investment flows of EC12 by main	217
10.0	partite 1707–1700 (D)(((On Current Ecu)	232
10.2	Direct investment flows (in billion Eq.) between the	232
	member countries of the European Community	
10.2	1973–1903	235
10.3	Percentage growth and profitability, 1979–1988	236
10.4	mulcators of EC. Stock markets 1985	238
10.5	weighted percentage change in correlation	
	coefficients of five European stock markets with	
	those of the rest of Europe, the United States and	
10.6	japan	239
10.6	Correlation coefficients between European stock	207
10.7	markets, 1973–1979 and 1980–1986	239
10.7	Growth of Euromarkets, 1960-1985	241
10.8	Convergence of interest rates in the EC 1963–1985	243
11.1	referringe share of agriculture in total GDP and total	
11.2	chiployment of the FC 17 1950-1005	255
11.2	Percentage share of some selected product groups in	
11.3	the total production value of agriculture	256
11.5	Development of the number and size of agricultural	
11.4	establistificitis	257
11.5	Average yields of agricultural products, EC10	258
11.0	EC agricultural prices as a percentage of world-	
11.6	market prices (live-vear averages)	264
11.0	Self-sufficiency ratio of the European Community for	
	some selected agricultural products, 1958–1985 (index)	
11.7	Outlay (in million Early 11 P	266
	Outlay (in million Ecu) on the European Guidance	
12.1	and Sudidiffee fully for Agriculture 1040 1007	267
	Percentage share of manufacturing in total GDP and	
	total employment, 1950–1985 (EC12)	280

12.2	Employment (million) in manufacturing by branch (EC12) 1950–1985	280
12.3	The ten largest manufacturing firms based in the EC (private ownership), 1972–1984, by world-wide	
	employment	281
12.4	International comparison of the performances of firms by relative firm size (100 largest), 1980	285
12.5	Estimated number of steel plants by size category (Mt/y) in the EC9	286
12.6	Largest European steel producing firms with a crude steel output of over 1 Mt/y and concentration ratios, 1985	287
12.7	Some characteristic data on the Community (EC12) steel industry, 1950–1985	288
12.8	Production (x 1000) of the largest European car manufacturers in the EC12 (over 100 000 a year in	
12.0	1986)	290
12.9	Production and consumption of, and external trade in, cars in the EC 1960–1985 (millions)	291
12.10	Shares of the three largest national producers in home market sales	292
12.11	Production of and trade in refrigerators, 1958–1972 (1000 units)	294
13.1	Percentage shares of primary energy sources in total energy consumption in the European Community (Mtoe), 1929–1985	305
13.2	Percentage shares of energy sources in the consumption of power stations in the EC12 1955–1985	306
13.3	Final domestic consumption of energy in the EC12, by consumer category and secondary energy source	
13.4	(Mtoe), 1950–1985 Number of refineries in Western Europe by size class,	310
	1950–1985	313
13.5	Generation and exchanges of electricity in Western Europe, 1970–i984	315
14.1	Percentage share of the service sectors in EC12 total employment	326
14.2	Percentage shares of service sectors in total value added EC12, 1960–1985	327
14.3	Imports and exports of services (percentage of GDP, current prices)	327
14.4	Trade in services of the EC10 with third countries, 1984, thousand million Ecu	328
14.5	Largest European insurance companies	331

14.6	Indicators of life-insurance market interpenetration (around 1980)	
15.1	Percentage share of transport sector in total GDP and	333
15.0	employment, EC12, 1950–1985	346
15.2	Characteristics of the transport system (EC12), 1950–1985	
15.3	Inland goods transport in Europe (EC12) by mode of	347
	transport (in percentages and in 10° ton/km, 1970–1985)	251
15.4	Percentage market shares of each transport mode in	351
	international goods transport among all mombou	
	states of the ECIU; and the remaining part of the	
15.5	Community by NST commodity group, 1984 Total passenger kilometers (1000 million) on scheduled	352
	services (international and domestic) of major	
16.1	European airlines, 1960–1985	354
16.1 16.2	Sectoral concentration in the EC, 1962–1973	369
10.2	VAT (rates and receipts) as a percentage of total GDP	
	and total tax receipts in member countries of the EC (around 1986)	000
16.3	Examples of excise taxes (Ecu. 1987) and importance	377
	of excise tax revenue in total (i)) (percentage	
16.4	1903), in EC member states	378
17.1	Corporation taxes in the EC (rates as of 1985)	381
	The Ecu in relation to the component currencies (September 1989)	207
17.2	EMS bilateral central rates and margins of fluctuation	397
17.0	(as of September 1989)	398
17.3 17.4	EMS parity changes and the Ecu	400
17.4	Index of variability of exchange rates against other currencies	
17.5	Average percentage yearly growth rates of trade	402
	(exports plus imports) in constant prices, 1973–1985,	
15.	by group	403
17.6	Average annual percentage inflation rate (GDP price	105
17.7	change) by country and period	405
,	Average yearly growth rates of GDP (volume), and development of GDP/P (EC12 = 100), for the 12 EC	
	member countries, 1950–1985	411
18.1	Indices of regional disparities of wealth in the EC	411
18.2	1330-1363	422
	Schematic view of impacts by policy area and type of region	124
18.3	Concentration of ERDF aid (EC10), 1975–1984, and	424
		427

18.4	Social Fund Aid, in percentages, by category and	
	member state, 1976–1980	435
19.1	Transactions of the EC with third countries by	
	category; average assets and liabilities 1976–1984	440
19.2	New Tariff Barrier equivalents (in percentages) for	
	various countries and products	445
19.3	Yearly welfare effects of the Tokyo Round by country,	
	in percentage of GNP	448
19.4	The hierarchy of EC trade relations	450
19.5	Market penetration by imports from LDC into the EC,	200
	USA and Japan, 1973 and 1983 (in percentage of	
	apparent domestic production)	455
20.1	Growth of integration in the EC (goods, services,	100
	labour and capital), 1960–1985 (percentages)	472
20.2	Price convergence for goods, services and production	
	factors, 1965–1985	475
20.3	Growth of European administrative and related	1,0
	organisations, 1960–1988	476
20.4	Synoptic view of the development through time	170
	(1958-1988) of the degree of policy integration by	
	activity area	479
	activity area	4/7

List of Figures

3.1	European industry around 1870	39
3.2	Evolution of British, French and German average tariff	:
	rates of protection, 1850–1938	41
4.1	The EC Institutional system	61
4.2	The Community's legislation-making process	71
5.1	Advantages of international trade:	
	(a) Production-possibility and indifference curves	84
	(b) Supply and demand curves for commodity x	85
5.2	Trade effects of a tariff	88
5.3	Welfare effects of a tariff, country A	90
5.4	Welfare effects of quantitative restrictions, country A	92
5.5	Trade and production effects of a customs union,	
	countries A and B	94
5.6	Welfare effects of a (trade-diverting) customs union,	•
	country A	97
5.7	Terms-of-trade effect of a tariff for the CU	100
5.8	Effects of tariffs, account being taken of the customs	200
	union supply curve, country A	104
5.9	Advantages of improved technical efficiency,	
	country A	105
5.10	Economies of scale in production for individual	
	countries A and B and for customs unions of A and	
	B and of A, B and C	107
5.11	Welfare effects of learning	110
5.12	Effects of eliminating trade barriers in a customs	
	union	111
6.1	Effects of movement of production factors:	
	(a) No factor-market integration	116
	(b) Integration of factor markets, price convergence	116
6.2	integration of factor markets; price equalisation	121
6.3	welfare effects of production factor market integration	124
6.4	(a) Demand and supply of capital in separated	
	small and large markets	127
	(b) Demand and supply of capital transferred from	
	small (local) markets to a large (central) one	127
5.5	Welfare effects of trade impediments with and	
	without capital-market integration	130
5.6	Effects on factor earning under partial integration of	
	goods and capital markets	135

xviii List of Figures

6./	patterns	120
6.8	Allocation of the capital stock to countries under	138
0.0	conditions of technological dominance	1.41
6.9	Labour import in sunset industries	141
7.1	Monetary integration in a Phillips world	142
7.2	Monetary Union in a Friedman/Phelps world	152
7.3	Monetary Union and international halanced growth	154
8.1	Monetary Union and international balanced growth	164
9.1	Clustering of European countries by trade pattern	183
11.1	Bilateral recruitment agreements; end of 1973 Disequilibria on agricultural markets: hog cycle	209
11.2	EC market-regulation system for major agricultural	259
11.2	products (guarantee prices)	
	(a) Imports	
	(b) Exports	2/1
11.3	Alternative market-regulation systems (deficiency	261
11.0	payments)	
	(a) Imports	
	(b) Exports	263
11.4	The effect of quotas	270
12.1	Production and trade patterns of multinational, multi-	270
	product companies under different trade regimes	282
13.1	European Community import prices of energy	300
13.2	Development of total energy consumption in Western	300
10.1	Development of total energy consumption in Western Europe, 1950–1980 (1000 Mtoe) and of GNP (index	
	1975 = 100)	303
13.3	Flows of crude oil towards Western Europe (around	303
20.0	1985)	309
13.4	Exchange of electricity	307
	(a) 1966	316
	(b) 1986	317
14.1	Annual premiums (best buy) of a term insurance in	517
	the EC countries	335
15.1	Frontier-crossing inland goods transport among EC9	333
	member states, on the basis of tonnage, 1970–1985	350
16.1	Mergers in the EC, 1973–1986	369
17.1	Inflation and currency depreciation or appreciation	404
17.2	Inflation and budget deficits	409
18.1	Areas eligible for ERDF assistance at the beginning of	402
-	1987	426
19.1	Ecu/\$ exchange rate through time	461