INDEX

Footnotes are indicated by n after the page number

accumulation, 207 aggregate marginal revenue	Bhagwati, J.N., 55, 75 boom times
curves, 88–95	distortion theory, 142
aggregate utility functions,	factor incomes, 178–82
12–13, 174	guest workers, 112
agricultural sector, 101, 121	illegal migrants, 141–2
interactions, 171–84	post-tourism, 92
isocost curves, 175–6	pre-tourist, 92
labour, 174	product prices, 171-84
analysis	relative prices, 126–30,
countries' specialization, 222-5	178-82
econometric, 225-32	residents' welfare, 99, 108,
applied economics, 211–31	126-30, 178-84
assumptions	rural regions, 163-6
commodity markets, 16	structural adjustment, 178-84
exports, 185	three-sector model, 172-84
factor markets, 16	tourism, 58-9, 75-7
utility functions, 12	urban regions, 146, 156-63
Australia, 214, 217	Brecher-type framework, 148–9
autarky, 70	budget constraints, 200
demand, 71	
equilibrium, 34, 48-9, 70-2	Canada, 217
price, 71–3	capital
solution, 43	accumulation sources, 191
average terms of trade, 36, 56	gross investment, 199
	imported, 202
Balassa index, 220, 222-5, 227	intensity, 134, 157-60, 164
Barro, R.J., 199	labour ratios, 20–2
Batra-Seth type framework, 148	region-specific, 147

rentals, 127	demand function, 55
rural regions, 164	differences, $41-2$
urban-specific, 147	guest workers, 104
CEPII, 213, 216, 227	monopoly power, 51–4
coastal regions, 100–3	non-concavity, 51–4
four goods model, 101	possibility frontier, 46, 60–5
land rentals, 105–8	possibility schedules, 47–50,
model alternatives, 122–6	51–4
pricing equations, 118	production differences, 50–4
production, 109–12	proportional changes, 201
residents' welfare, 108	set non-convexity, 51–4
Cobb-Douglas production	set non-concavity, 51–4
functions, 85, 199	taxation revenue, 112
commodities	contract curves, 32
see also non-traded goods	cost functions, 17, 23, 87
consumption, 12	countries
definition, 15	competitive positions, 217, 219
free trade consumption, 45	competitiveness evolution,
market assumptions, 16	213–7
price changes, 27–9	developed, 146, 197
price ratios, 20	OECD destinations, 211–33
comparative advantage, Balassa	real exchange rate data, 217–8
index, 227	specialization analysis, 222–5
competition	tourist dependency, 41
destination countries, 211–31	welfare, 77–81
export earning activities,	'crowding out' effect, 94
171–84	cultural heritage, 197
OECD countries, 211–33	
competitiveness, 211–20	database construction, 225
components, 215	demand
definition, 212	see also domestic demand
destination, 215–20	consumption, 55
evolution, 214–20	elasticities, 86
indices, 211–33	growth models, 187
price, 214–20	income compensated, 15
services, 212	increasing returns to scale,
constant prices, technical progress,	175
77	regional models, 149-51
consumption	dependency models,
advantage in tourism (RCARV),	tourism, 41, 42–58
226	derivation
consumer mobility, 15	models, 116–21, 130–2

1111	ica 2.
offer curves, 71–5 optimal tariffs, 71–5 taxation issues, 71–5 destination countries, competitiveness, 215–20 determination endogenous prices, 43, 46 non-traded goods equilibrium, 46–7	duality relations, 25–30 duality theories, 14 Dutch Disease, 172(n) dynamics growth, 185–94 specialization, 221–2 trade models, 185–94
tertiary terms of trade, 78 developed countries, 146, 197 development/specialization interface, 225–9 differentiated non-traded goods/services, 67 disaggregation, 13	econometric analysis models, 225–9 specialization, 220–32 economics applied, 211–31 empirical application, 211–31 economies
discriminating monopolist, 89 distortion theory, 35–8, 100, 142 domestic demand, 87–8, 95 domestic economies, 203–4 domestic employment, 138, 142 domestic rate of substitution (DRS), 2	see also domestic economies coastal, 100–3 foreign capital indispensable, 197 production, 16–9 three good production, 84–8 urban, 100–3
monopoly power, 51–3, 57 optimal tariffs, 74 production possibility curves, 34–6 domestic rate of transformation	Edgeworth–Bowley box diagrams, 152, 161, 177 production possibility curves, 31–2 Rybczynski theorem, 27–8
(DRT), 2 monopoly power, 51–3 optimal tariffs, 74 production possibility curves, 34–6 domestic residents immiserization, 129–30	elasticities demand functions, 86 substitution, 23 employment see also unemployment conditions, 103 equilibrium, 73
welfare, 83–97 downstream segment specialization, 226 DRS see domestic rate of substitution DRT see domestic rate of transformation	endogenous variables labour, 174 price determination, 43, 46 tourism, 67–81 endowments, 18 nature, 67 theorems, 25–6

equilibrium	foreign capital
demand and supply, 124–5	growth models, 185–94
factor prices, 105–6	indispensable, 197
free trade, 73	production, 197
growth models, 186–94	purchase, 185–94
increasing returns	foreign country equilibrium
to scale, 94-5, 175-6	models, 67-70
outputs, 126	foreign demand curves, 92-3
steady state, 202	foreign direct investment (FDI),
estimation functions, 226	197-8
European countries, 214	foreign offer curves, 71, 73
expansion, tourism,	foreign rate of transformation
77-81, 171-84	(FRT), 2, 56
expenditure functions, 166–7,	monopoly power, $51-3$, 57
exports	optimal tariffs, 74
assumptions, 185	production possibility curves,
demand, 205	36–7
earning activity competition,	four goods model, 100-3, 147-50
171-84	four quadrant diagrams, 46-7
exportable goods/services,	free trade
41-2	commodities consumed, 45
price elasticity, 204	equilibrium, 34–5, 49–50, 73
relative price, 90	monopoly power, 59
taxes, 112–6	FRT see foreign rate of
tourism services, 212	transformation
external competitiveness,	full employment
definition, 212	conditions, 103
	equilibrium, 73

factor endowments, 18

see also Rybczynski theorem
theorems, 25-6
factor incomes, 178-82
factor intensities, 20-1
factor market assumptions, 16
factor prices, 17, 29, 105-6,
124-5
factor rewards, 27-9
FDI see foreign direct investment
feasability, models, 22
flexibility, wages, 69
flexible prices, non-traded goods, 2

GDP, 216
generalized Harris—Todaro model
(GHT), 145–70
geometric representation, GHT
model, 150–5
GHT see generalized
Harris—Todaro model
global tourism, 38
Greece, 215
gross investment, capital, 199
growth
endogenous, 198

<i>lex</i> 239
HO see Heckscher-Ohlin model
home countries, welfare, 77–81
home immiserization, 75–7
home welfare, production effects,
71
home/foreign country equilibrium
models, 67–70
homogeneity properties, 17
homogenous of degree zero, 23
homogenous functions,
production, 44
Hong Kong, 85
hotel function indicator, 231
hotel function rate, 226, 228
hotels, 83, 85, 99
household separation
assumption, 200
hybrid HO model, 172–8
illegal migrants, 2
boom times, 141–2
domestic employment, 138, 142
income, 138, 141–2
market clearing, 136, 139
model, 134–7
non-traded goods, 134–7
presence on welfare, 137–42
resident welfare, 133–43
wages, 134
immiserization
growth, 75–7, 79, 181
Harris-Todaro model,
145-70
home, 75–7
regional, 145–70
residents, 99–132
rural regions, 146, 168–9
terms of trade, 109
tourism expansion, 171–84
two-country trade models,
67–81
urban regions, 166–8

240 Ina	iex
import duty rebates, 207	endogenous supply, 174
imported capital, 202	inelastic supply, 69, 148
income	intensity, 131, 134
compensated demand functions,	regional models, 147
15	skilled, 136
guest workers, 104	Lagrange multipliers, 201
illegal migrants, 138, 141-2	Leontief coefficients, 17
national, 188	long-run equilibrium, growth
regional, 145-70	models, 190-4
residents, 104	
income per capita, 226-7,	manufacture
229-30	see also production
increasing growth, welfare,	interaction, 171–84
57-8, 80-1	labour demand, 181
increasing returns to scale, 94-6	marginal revenue curves, 87
equilibrium, 175–6	marginal terms of trade, 36, 56
model, 172-8	marginal utility, 12
wage rates, 181	market clearing, 102
welfare, 171–84	equations, 56
indices, competitiveness, 211–33	illegal migrants, 136, 139
indirect utility function,	optimal growth, 199
definition, 14	Marshall tradition, 89
inelastic supply	Marshall-Lerner stability
labour force, 69, 148	condition, 59, 78
primary factors, 43	Mexico, 215
production, 43	microeconomic theory, 23
international passenger	migrants see illegal migrants
transport, 226–9	migration function, 135
international terms of trade, 151	minimum wages, constraints, 36,
inventory accumulation, 15	148
Ireland, 215	mobility, consumers, 15
isocost curves, agriculture, 175–6	models, 147–50
isoquants, 125, 151	alternatives, 122–6
	derivations, 116–21, 130–2
Johnson, H.G., 55, 75	econometric analysis, 225–9
	feasability, 22
Kemp, M.C., 55, 75	guest workers, 99–132
Komiya model, $1-2$, 43	illegal migrants, 134–7
	increasing returns to scale
labour	equilibrium, 172–8
agriculture, 174	three good production, 84–8
allocation, 139	three-sectors, 171–84

Inae	2X 241
monopoly outputs	one-agent frameworks, 13
production, 83–97	open economy model, 46
terms of trade, 88-91	optimal export tax, 112-6
monopoly power, 2, 36–7	optimal growth, 197-209
consumption set non-convexity,	market clearing, 199
51-4	monopoly power, 197–209
DRS, 53, 57	taxation, 205–7
free trade, 59	optimal tariffs, 37
FRT, 53, 57	derivation, 71–5
optimal growth, 197-209	imposition, 74–5
multi-agent frameworks, 13	outputs
multi-good frameworks, 15	equilibrium, 126
	movements, 22
national income, 138, 188	resident welfare, 88–94
national welfare, 164	tourism booms, 178-82
natural heritage, 197	
nature, endowments, 67	panel regression results, 229–32
New Zealand, 215, 217	Pareto criterion, 31, 165
non-traded goods, 15, 41-65	partial equilibrium frameworks, 89
consumption goods, 198–204	passenger transport, 226–9
equilibrium, 46–7	POS see countries competitive
flexible prices, 2	positions
four quadrant diagram, 46-7	possibility schedules, consump-
illegal migrants, 134–7	tion, 47–51, 51–4
market stability conditions, 141	post-tourism booms, 92
optimal growth, 202	PPPs see purchasing power parities
relative prices, 86, 108, 141,	pre-tourist booms, 92
160, 202	price competitiveness, 220–2
rural regions, 160	real exchange rates, 231
terms of trade, 92–3	price discrimination, 83–97
trade theory, $1-2$	price elasticity, export demand,
urban regions, 108	205
Notre Dame example, 42	price structure, guest workers, 103
•	pricing equations, 118
OECD destination countries	producers, separation
competition, 211–33	assumption, 200
database construction, 225	product prices, boom
price competitiveness, 220–2	times, 171–84
offer curves	production
autarky demand, 71	see also manufacture
derivation, 71–5	coastal regions, 109-12
foreign, 73	Cobb-Douglas functions, 199

consumption differences, 51-4	models, 225
contract curves, 32	price competitiveness, 231
domestic demand, 95	real income, 45
domestic rate of transformation,	region-specific capital, 148
33-8	regional immiserization, 166-9
economic issues, 16–19	Harris-Todaro model, 145-70
Edgeworth-Bowley box	regional models
diagram, 31–2	demand, 149-57
foreign capital, 197	urban/rural tourism, 147-50
foreign offer curves, 71	relationships, 20–4
functions, 20, 173	relative prices
home welfare effects, 71	boom times, 126–30
homogenous functions, 44	consumption goods, 201
inelastically supplied primary	exports, 90
factors, 43	non-traded goods, 86, 141, 160,
monopolistic, 83-97	201
possibility curves, 31–5	production, 45
relative price ratios, 45	ratios, 22, 45
restrictions, 20	rural regions, 160, 164
rural regions, 152–3	tourism booms, 178–82
Rybczynski bias, 111	urban non-traded goods, 108
shrinkage curves, 36	rentals
urban regions, $109-12$, $150-3$	capital, 127
profit maximization, 69	coastal land, 105-8
proportional changes, consump-	RERs see real exchange rates
tion, 201	residents
purchase, foreign capital, 185–94	see also domestic residents
purchasing power parities (PPPs), 216–7	aggregate utility functions, 174
pure theory of trade, 41–65	immiserization, 99–132
Face accept as allow, in the	income, 104
quality, specialization, 221	residents' welfare, 108–9
quasi-public goods, 41–2, 94	boom times, 99, 108, 126–30,
	171-84
Ramsey framework, 197	coastal regions, 108–9
RCA see revealed comparative	illegal migrants, 133–43
advantage index	output changes, 88–94
RCARV see consumption	returns to scale
advantage in tourism	capital, 204
real exchange rates (RERs),	demand, 175
215-20	equilibrium, 94–5, 175–6
data by country, 217-8	models, 172–8

mu	ex 243
wage rates, 181	short-run equilibrium, growth
welfare, 171–84	models, 187–90
revealed comparative advantage	shrinkage, production curves, 36
(RCA) index, 222–5, 228	Singapore, 41–2
revenue functions, 18	skilled labour, 136
urban regions, 167	small open economies
Ricardian model, 1, 67	duality relations, 25–30
rural regions, 101, 145–70	two-sector general equilibrium
immiserization, 146, 168-9	models, 11–40
non-traded goods, 160	social indifference curves, 151
production, 152–3	social welfare maximization, 197
relative prices, 146	Solow model, 185–6, 188
Rybczynski effect, 164	Spain, 185, 197
tourism booms, 163-6	specialization, 50–1
unemployment, 153-4	development interface, 225-9
wages, 148, 160, 164	downstream segment, 226
welfare, 145–70	dynamics, 221-2
Rybczynski effect, 109, 121	econometric analysis, 220-32
illegal migrants, 140	quality, 221
rural regions, 164	specific factor model, 2
urban regions, 161	stability conditions, non-traded
Rybczynski production bias, 111	good market, 141
Rybczynski theorem, 19, 25–30	steady state
Edgeworth-Bowley box	definition, 202
diagram, 27–8	equilibrium, 202–3
GHT model, 158	growth, 186, 193
growth models, 192	stock constancy, 203
	Stolper-Samuelson theorem, 19,
Sala-i-Martin, X., 199	25, 30, 104
Samuelson framework, growth	rural regions, 161
models, 186	theorem duality, 30
Samuelson reciprocity condition,	versions, 28–30
19	wage rates, 181
self-sustaining growth, 198	structural adjustment, boom times,
separation	171-84
assumptions, 200	students, 2
household assumption, 200	supply curves
producers, 200	see also demand
sets, 52	upward sloping, 24
service competitiveness, 212	sustained growth, domestic
sets, separation, 52	economies, 203–4
Shephard's lemma, 15	Switzerland, 215

244 I	ndex
Taj Mahal, 75	tourists see consumption
Takayama, A., 205	trade models
taxation	dynamic, 185-94
derivation, 71–5	growth, 100
optimal growth, 205-7	static, 100
revenue, 112	trade theory, non-traded
two-country trade models,	goods, 1–2
67-81	traded goods sector,
technical progress, 77–81	urban regions, 157–60
constant prices, 77	trading equilibrium, 45
temporary consumer mobility, 2	two countries, 71–5
terms of trade, 13	traditional terms of trade, 90
average, 56	transport, international
discriminating monopolists, 89	passengers, 226–9
guest workers, 109	transversality conditions, 201
immiserization, 109	travel
imported capital, 202	flows, 213
improvements, 88–91	revealed comparative
international, 151	advantage index, 224
marginal, 56	Twelve Apostles (Great Ocean
monopoly outputs, 88–91	Road) example, 71
negative effects, 112	two-commodity models, 11-40
non-traded goods, 92-3	two-country general equilibrium
tertiary, 78, 91	models, 67–70
traditional, 90	two-country trade models, 67–81
welfare relationship, 90-1	taxes, 67–81
tertiary terms of trade, 78, 91	two-sector models
theory of trade, 41–65	equilibrium modification,
non-traded goods, 41-65	41-65
pure, 41–65	general equilibrium
tourism, 41–65	models, 11-40
three good production models,	variations, 198-205
84-8	
three-sector model, boom times,	unemployment, 135
171-84	see also employment
TIRM see tourism density rate	rural regions, 153–4
tourism expansion	United States of America (USA),
effect on welfare, 181	213, 217
immiserization, 171–84	urban regions, 100−3
tourism phenomena, 67	booms, 146
tourist density rate (TIRM), 229,	capital, 147
231–2	employment, 145–70

	Ina	<i>ex</i> 243
	expenditure functions, 166-7	rates, 104, 181
	four goods models, 100	real minimum, 148
	immiserization, 166–8	returns to scale, 181
	model alternatives, 122–8	rigidity, 163
	non-traded goods, 108	rural regions, 148, 160, 164
	pricing equations, 118	urban regions, 163
	production, 109–12, 150–3,	welfare
	156–7	see also home welfare;
	relative prices, 108	residents' welfare
	revenue functions, 167	domestic residents, 83-97
	tourism booms, 156–63	home countries, 77–81
	traded goods sector, 157-60	illegal migrant presence, 137–42
	unemployment, 145–70	increasing growth, 58, 80–1
	wage rigidity, 163	increasing returns to
	welfare, 145–70	scale, 171–84
1	USA see United States of America	national, 164
1	utility functions	production effects, 71
	aggregate, 12–13, 174	residents, 108
	assumptions, 12	returns to scale, 171–84
	guest workers, 101–3	rural regions, 145–70
	maximization, 44, 68	terms of trade relationship,
		90-1
,	visa fees, 75	tourism, 83–97, 181
		tourism increase effect, 181
,	wage-rental ratios, 20–2	urban regions, 145–70
1	wage	world growth, 81
	differentials, 35	world growth, welfare
	flexibility, 69	improvement, 81
	guest workers, 104	
	illegal migrants, 134	Young's theorem, 19