

# Contents

<b>1.</b>	<b>Neoclassical Macroeconomics</b>	1
1.1	The Microfoundation of Macroeconomics	2
1.1.1	Consumption demand and labor supply	3
1.1.2	Public spending and fiscal policy	6
1.1.3	Money demand and monetary policy	9
1.1.4	Labor and capital demand by firms	11
1.1.5	Perfect competition and market structure indeterminacy	12
1.1.6	Market clearing and general equilibrium	14
1.2	Growth	16
1.2.1	The Solow model	16
1.2.2	The Diamond model	17
1.2.3	Dynamic fiscal policy	20
1.2.4	Dynamic monetary policy	22
1.2.5	Neoclassical endogenous growth	24
1.3	International Finance and Trade	26
1.3.1	International finance	27
1.3.2	International fiscal policy	29
1.3.3	International monetary and exchange rate policy	30
1.3.4	International trade theory	33
1.3.5	International trade policy	36
1.4	Business Cycles	37
1.4.1	The Ramsey model	37
1.4.2	Real Business Cycles	40
1.4.3	Monopolistic firms with exogenous entry	46
1.5	Conclusions	50
<b>2.</b>	<b>The EMSs Approach to Macroeconomics</b>	51
2.1	EMSSs in Partial Equilibrium	55
2.2	Microfounded EMSs	60
2.2.1	EMSSs with competition in quantities	60
2.2.2	EMSSs with competition in prices	63
2.2.3	Optimal EMSSs	64
2.3	EMSSs with Isoelastic Sub-utility	65
2.3.1	Cournot competition	67

2.3.2	Bertrand competition . . . . .	69
2.3.3	Stackelberg competition . . . . .	71
2.3.4	Collusion, endogenous entry costs and other extensions	73
2.4	EMSSs in a Two Period Economy . . . . .	75
2.5	EMSSs in General Equilibrium . . . . .	78
2.6	EMSSs in an Infinite Periods General Equilibrium Economy . . . . .	81
2.6.1	A model of business creation with Cournot competition	82
2.6.2	EMSSs in the long run . . . . .	87
2.7	Business Cycle . . . . .	88
2.8	Trade . . . . .	90
2.9	Growth . . . . .	91
2.10	Conclusions . . . . .	93
<b>3.</b>	<b>Endogenous Market Structures and Business Cycles . . . . .</b>	<b>95</b>
3.1	Empirical Evidence on EMSSs over the Business Cycle . . . . .	98
3.1.1	Business cycle fluctuations in the U.S. . . . . .	100
3.1.2	VAR analysis . . . . .	103
3.2	A Model of the Business Cycle with EMSSs . . . . .	105
3.2.1	Cournot competition . . . . .	108
3.2.2	Bertrand competition . . . . .	109
3.2.3	Stackelberg competition and imperfect collusion . . . . .	110
3.2.4	Short run EMSSs . . . . .	110
3.3	Steady State EMSSs . . . . .	114
3.3.1	Dynamics and steady state under Cournot competition	115
3.3.2	Dynamics and steady state under Bertrand competition	118
3.4	Impulse Response Functions and Second Moments . . . . .	120
3.4.1	Supply shocks . . . . .	121
3.4.2	Demand shocks . . . . .	125
3.4.3	Second moments . . . . .	128
3.5	EMSSs and Accumulation of Physical Capital . . . . .	130
3.6	Fiscal Policy . . . . .	133
3.7	Monetary Policy . . . . .	137
3.8	Labor and Credit Market Imperfections . . . . .	141
3.9	Conclusions . . . . .	144
<b>4.</b>	<b>Endogenous Market Structures and International Trade and Finance . . . . .</b>	<b>145</b>
4.1	Empirical Evidence on EMSSs and Market Size Effects . . . . .	149
4.1.1	Panel data on the number of firms . . . . .	150
4.1.2	Cross-sectional data on firms' production . . . . .	153
4.2	A Model of Trade with EMSSs . . . . .	156
4.2.1	The Krugman model . . . . .	157
4.2.2	Cournot competition . . . . .	158
4.2.3	Bertrand competition . . . . .	160
4.2.4	Gains from trade and business destruction . . . . .	161

4.3	The Ghironi-Melitz Model .....	163
4.3.1	International trade and business cycle .....	164
4.3.2	International finance and macroeconomic policy .....	167
4.4	Trade Policy and Import Tariffs .....	169
4.5	Strategic Export Promotion .....	172
4.5.1	A model of international competition .....	173
4.5.2	Optimal trade policy <i>à la</i> Brander-Spencer .....	174
4.5.3	Optimal trade policy with EMSs .....	175
4.6	Trade Policy and Export Subsidies .....	177
4.6.1	Optimal trade policy with Cournot competition .....	177
4.6.2	Optimal trade policy with Bertrand competition .....	181
4.7	Protectionism, Lobbying and Trade Wars .....	183
4.7.1	Indirect export promotion and infant industries .....	184
4.7.2	The political economy of export promotion .....	184
4.7.3	Nash equilibrium trade policy .....	186
4.8	Exchange Rate Policy .....	187
4.8.1	Competitive devaluations with Cournot competition ..	189
4.8.2	Competitive devaluations with Bertrand competition ..	190
4.9	R&D Policy and IPRs Protection .....	193
4.10	Conclusions .....	195
5.	<b>Endogenous Market Structures and Growth .....</b>	197
5.1	Empirical Evidence on EMSs and Innovation by Leaders .....	200
5.1.1	Data Sources on R&D, Entry and Leadership .....	201
5.1.2	Tobit Regressions .....	203
5.1.3	Instrumental variables for entry .....	207
5.2	A Model of Endogenous Growth .....	212
5.2.1	Cournot competition .....	215
5.2.2	Bertrand competition .....	216
5.2.3	The Romer model .....	216
5.2.4	The Peretto model with EMSs .....	217
5.3	A Model of Schumpeterian Growth .....	219
5.3.1	Patent races .....	220
5.3.2	The Aghion-Howitt model .....	222
5.3.3	A Schumpeterian model with EMSs .....	223
5.4	EMSs with Growth Leaders .....	226
5.5	Fiscal Policy .....	231
5.6	Monetary Policy .....	236
5.7	Growth and International Trade and Finance .....	240
5.7.1	Endogenous size of national markets and global growth	241
5.7.2	World technological leadership .....	243
5.7.3	Optimal R&D policy in the open economy .....	245
5.8	Conclusions .....	246

<b>6. Economic Principles and Policy for the New Economy</b> . . . . .	247
6.1 Short-run EMSs and the Competition Effect . . . . .	248
6.1.1 The boom of the 90s . . . . .	250
6.1.2 The current global recession . . . . .	252
6.2 Steady-state EMSs and Entry . . . . .	258
6.2.1 Entry and business creation in the U.S. . . . . .	261
6.2.2 Cloud computing: the impact of a General Purpose Technology . . . . .	263
6.3 Gains from Trade and the Effects of Globalization . . . . .	267
6.4 Growth Driven by Leaders . . . . .	271
6.4.1 Online advertising: market structure and innovation . .	273
6.4.2 Google economics . . . . .	276
6.5 Dynamic Inefficiency . . . . .	277
6.6 Fiscal Policy . . . . .	279
6.6.1 Fiscal policy in the U.S. and the E.U. . . . . .	281
6.6.2 A supply-based fiscal policy . . . . .	284
6.7 Monetary Policy . . . . .	285
6.7.1 Monetary policy in the U.S. and the E.U. . . . . .	287
6.8 Trade Policy . . . . .	290
6.9 Exchange Rate Policy . . . . .	294
6.10 Innovation and Competition Policy . . . . .	299
6.10.1 Innovation policy and coordination . . . . .	300
6.10.2 Competition policy in the U.S. and the E.U. . . . .	301
6.10.3 Entry and competition in the browsers' market . . . .	305
6.11 Conclusions . . . . .	308
<b>7. Epilogue</b> . . . . .	309
<b>8. References</b> . . . . .	313
<b>Index</b> . . . . .	339