

# Contents

*Sections of papers not previously published, or substantially rewritten for the present volume, are listed in italic*

Acknowledgements	x i
Abbreviations	xii
Preface	xiii
<i>Post-classics not neo-classics</i>	

## PART I Classics and Post-classics

1 'Revolutions' in Economics (1976)	3
<i>Prefatory note 3</i>	
Adjustment to a changing world 3 Adam Smith's 'revolution' 6 Marx and Mill 8 catallactist 'revolution' 9 plutology, old and new 12 Keynes and Hawtrey 14 present and past 15	
2 The Social Accounting of Classical Models	17
<i>Origins: Petty and Cantillon 17 Physiocrats 21 Smith, his working capital model 23 Ricardo, his three models 28 echo in Keynes and Hayek 31</i>	
3 Ricardo's Theory of Distribution (1972)	32
The share of rent 32 a concealed linearity assumption 34 effect of relaxing it 35 shares in net revenue 36 substitution of capital for land 37	
4 Ricardo and the Moderns (1977)	39
(with Samuel Hollander)	
<i>Prefatory note 39</i>	
Conversation between authors 41	
(I) A simplified version of Ricardo's growth model: the barriers 42 the model in circulating (or working) capital terms 46 a possible (but controversial) exception 48 fixed capital 49 static method 52	
(II) Evidence from Ricardo's text – 'money' wages and real wages 53 the main texts 54 the 'Notes on Malthus' 58 fixed capital again 58	

- 5 From Classical to Post-classical: The Work of J. S. Mill 60  
*Mill's contributions to economics: (1) international trade 61 (2) monetary theory, his important insights 62 (3) qualifications to value theory 65 (4) his rejection of Smith-Ricardo growth theory, and consequent opening of the way to post-classical statics 66 on environmentalism 70*
- 6 Edgeworth, Marshall and the 'Indeterminateness' of Wages (1930) 71  
*Prefatory note 71*  
 Edgeworth on determinateness of equilibrium 72 application to labour market 74 Marshall's apparently different doctrine 78 sales from stocks 79 application to labour market 81 neither doctrine is very applicable 82 standard rates 83 influence of competition mostly indirect 83
- 7 Léon Walras (1934) 85  
*Prefatory note 85*  
 Cournot and Walras 87 simple exchange 88 multiple exchange 89 how equilibrium is established 90 (static) equilibrium of production 91 capital 93 work on money not considered 95
- 8 The Austrian Theory of Capital and its Re-birth in Modern Economics (1973) 96  
*Prefatory note 96*  
 Böhm-Bawerk and Hayek 96 varieties of capital 97 joint supply 98 the production process: conditions for viability 100 fundamental theorem on  $r$  and  $k_t$  102 internal rate of return 104 the  $(w, r)$  or efficiency curve 106 re-switching 106*n* steady-state model 107 causal analysis 109 old- and new-dominant 110 change in time-pattern of output 111
- 9 Is Interest the Price of a Factor of Production? (1979) 113  
*Prefatory note: Relation to Causality book 113 use of 'equilibrium' in causal analysis different from traditional usage 114*  
 Two distinct 'Austrian' doctrines 115 the formation of expectations and the role of norms 116 historical explanation 118 counter-factuals and 'equilibrium' 120 the von Neumann convention 121  
 Defining 'factor of production' 121 The various meanings of 'capital' 122 the successful candidate is ITSO 125 liquidity 127

## PART II Competition and the Firm

- 10 The Theory of Monopoly: A survey (1935) 131  
*Prefatory note 131*  
 Origins 132

- (I) Simple monopoly 134 demand for inputs 135 joint production 137 selling costs 138 discrimination 138 private factors and the quiet life 139
- (II) Monopolistic competition 139 product variation 142 duopoly 144 conjectural variations 145
- (III) Bilateral monopoly, the two types 147 rehabilitation of Marshall 151
- 11 Scitovsky on Competition (1952) 153  
*Prefatory note: Rejection of perfect competition as standard* 153 *informed and uninformed markets* 154 *duopoly again* 154*n*  
 Scitovsky on perfect competition 156 the profit margin 158 free competition and restricted competition 160 pyramiding of margins 161
- 12 Stickers and Snatchers (1954) 163  
*Prefatory note* 163  
 Harrod on imperfect competition, in short and long periods – his change of view 164 close and open periods 164 simple expectations 166 short and long period outputs jointly determined 168 polypolistic expectations 171 rapid turnover of firms 172 oligopolistic expectations 173 strong policy of Perfect Sticker 176 building goodwill 178
- 13 Limited Liability: Pros and Cons (1982) 179  
 Reasons for its introduction 179 shareholder approximates to a kind of bondholder 180 non-transferable shares 181 importance of transferability 183 control: succession 185 what is to be maximised 185 the core 186 take-overs 187 gains and losses from anonymity of ownership 188
- 14 The Concept of Business Income (1979) 189  
*Prefatory note: capital gains* 189  
 History of profit taxation 190 ascertainment of profits – the accountant 191 depreciation quotas and allocation of over-heads 192 economists' depreciation compared with accountants' 193 double take-over model 193 current profit and capital profit need to be distinguished 195 the Lindahl analysis 196 leads to permanent income concept 199 two distinctions: internal-external and normal-exceptional 200 consequences for taxation principles 201 inflation 202

## PART III International Trade

- 15 Productivity and Trade (1953) 207  
*Prefatory note* 207  
 An application of Ricardian theory 208 uniform increase in

	productivity 209 non-uniform increase 212 export and import bias 213 historical cases 214	
16	Import Bias: A Reply to Critics (1959)	217
	Central proposition re-asserted 218 measurement of productivity change in output terms 219 not necessary 220 qualifications admitted 222	
17	The Factor Price Equalisation Theorem (1959)	224
	Restatement of Samuelson's argument 225 qualifications due to Harrod 228 does not apply to actual conditions 229 but still has some significance 230 scale economies 231 industrialisation 233	
<b>PART V Mathematical Economics</b>		
18	A Note on the Elasticity of Supply (1934)	237
	<i>Prefatory note</i> 237	
	Defence of approach 237 the model 239 the two formulae 239, 240 <i>proofs of the formulae</i> 241 <i>their significance</i> 244	
19	Linear Theory (1960)	246
	<i>Prefatory note</i> 246	
	The branches of linear theory 247 inequalities 248	
	(I) Origins: Walras, Wald and von Neumann 239	
	(II) The prototype 253 the Wald rules 254-5 operative constraints 256 vertex optimum and flat optimum 257 determination of factor prices 259 duality 261 significance for economics 262	
	(III) Beyond the prototype 264 relaxing the Wald rules 264 convexity 266 equational form 268	
	(IV) Linear programming 269 new kinds of problem 269 methods of solution: the simplex method 271 other methods 272 linear programming versus the price-mechanism 273	
	(V) Activity analysis 275 joint supply 275 variability of coefficients 277 existence of competitive equilibrium 279	
	(VI) Input-output 280 Leontief model 281 Leontief constraints 281 the Leontief region 282 Hawkins-Simon conditions 283 Samuelson's substitution theorem 284 the exception 285	
	(VIII) Conclusion - the theory of games 287 <i>raison d'être</i> of the price-mechanism 288 economics versus pure technics 289 <i>minimax theorem</i> 290	
20	Prices and the Turnpike: The Story of a Mare's Nest (1961)	292
	Testing the Turnpike Theorem 292 simplifications 293 conditions for optimum path 295 imitation of DOSSO proof of	

	Turnpike property 298	initial throwing away 301	an apparent inconsistency 302	the solution 304	tested on a still more special case 304	positive result emerging 307	
21	Direct and Indirect Additivity (1969)						308
		<i>Case of two goods</i> 308	<i>general case</i> 309				
22	Elasticity of Substitution Reconsidered						312
		<i>How it began: the two definitions</i> 312	<i>basic equations in new notation</i> 315	<i>perfect substitutes and perfect complements</i> 316	<i>the three-factor case</i> 318	<i>Fundamental Formula</i> 319	<i>the two wings</i> 320
		<i>relative shares</i> 321	<i>Appendix: Proof of Fundamental Formula</i> 322	<i>its consequences</i> 324	<i>relative shares</i> 325		

## PART V Reviews

23	Dupuit (1935)						329
		Review of de Bernardi edition					
24	Jevons (1978)						331
		Review of Collison Black edition of Jevons letters					
25	Menger (1951)						333
		Review of Dingwall and Hoselitz translation					
26	Marshall (1976)						335
		Review of Whittaker (ed.), <i>Early Economic Writings of Marshall</i>					
27	Pareto (1961)						338
		Review of <i>Pareto's Letters to Pantaleoni</i>					
28	Myrdal (1954)						343
		Review of Streeten translation of Myrdal's <i>Political Element</i>					
29	Positive Economics? (1965)						347
		Review of Lipsey's <i>Positive Economics</i>					
30	Micro and Macro (1979)						349
		Review of Weintraub's <i>Compatibility</i>					

## PART VI Summings-up

31	The Formation of an Economist (1979)						355
		From Oxford to LSE 355	Hayek and Keynes 358	writing <i>Value and Capital</i> 360	first visit to America 361	later work: new analytical concepts 362	
32	A Discipline not a Science						365
		<i>From welfare economics to cost-benefit</i> 365	<i>essentially forward-looking</i> 366	<i>positive economics – its status now</i>			

<i>questioned</i>	367	<i>strong and weak predictions</i>	369
<i>the maximisation postulate</i>	370	<i>qualifications</i>	371
<i>fact and theory</i>	372	<i>descriptive function</i>	372
<i>use of 'unrealistic' models defensible</i>	373	<i>examples</i>	373
<i>Value and Capital model</i>	374	<i>Keynes on 'technique of thinking'</i>	375
The Published Works of John Hicks			376
Index			387