

Contents

Foreword ix

Introduction 1

Some History 2
Current Tax Systems 5
Overview of the Book 8
References 11

I The Effects of Taxation 13

1 Distortions and Welfare Losses 15

1.1 The Effects of Taxation 17
 1.1.1 Labor Supply 18
 1.1.2 The Effects of Taxation on Savings 25
 1.1.3 Taxation and Risk-Taking 30
1.2 Welfare Losses 33

2 Tax Incidence 41

2.1 Partial Equilibrium 43
 2.1.1 The Effect of Payroll Taxes 43
 2.1.2 The General Analysis of Partial Equilibrium 45
2.2 General Equilibrium 49
 2.2.1 The No-Taxation Economy 50
 2.2.2 Introducing Taxes 51
 2.2.3 General Remarks 53
 2.2.4 Infinitesimal Analysis 54
 2.2.5 Final Remarks 60

II Optimal Taxation 63**3 Indirect Taxation 67**

- 3.1 Ramsey's Formula 67
 - 3.1.1 An Informal Approach 67
 - 3.1.2 The General Model 68
 - 3.1.3 Some Special Cases 73
- 3.2 Productive Efficiency 77

4 Direct Taxation 83

- 4.1 The Emergence of the Model 83
- 4.2 Mirrlees's Model 87
 - 4.2.1 The Two-Type Case 88
 - 4.2.2 The Rawlsian Case 94
 - 4.2.3 The General Approach 97
 - 4.2.4 The Quasi-linear Case 101
- 4.3 Generalizations 107
 - 4.3.1 Heterogeneous Preferences and the Extensive Margin 108
 - 4.3.2 Endogenous Wage Rates 111
 - 4.3.3 The Income Tax as an Insurance Device 114
- 4.4 Simulations 115

5 Mixed Taxation 123

- 5.1 The Negative Income Tax 124
- 5.2 Is Indirect Taxation Useful? 125
- 5.3 Criticisms 129

6 Risk and Time 133

- 6.1 Taxing Savings in a Riskless Economy 135
- 6.2 A Stochastic Economy 137
- 6.3 The Inverse Euler Condition 139
- 6.4 Discouraging Savings 142
- 6.5 Optimal Taxes 144
 - 6.5.1 Zero Aggregate Wealth Taxes 146
 - 6.5.2 Introducing Productive Capital 147
 - 6.5.3 Illustrations 149

7 Corrective Taxes 153

- 7.1 Pigovian Taxation in Partial Equilibrium 154

7.2	Optimal Green Taxes	156
7.2.1	The First-Best	157
7.2.2	The Second-Best	159
7.3	Is There a Double Dividend?	161

8 Criticisms of Optimal Taxation 165

8.1	Representing Social Preferences	165
8.1.1	Tax Reforms	166
8.1.2	Horizontal Equity	169
8.2	Putting Tax Theory to Work	172
8.2.1	Taxing Households	174
8.2.2	Behavioral Economics and Taxation	176

III Some Current Debates 179**9 Low-Income Support 181**

9.1	Measuring Poverty	182
9.2	The Main Benefits	183
9.2.1	Guaranteed Minimum Income	185
9.2.2	The Negative Income Tax	185
9.2.3	Low-Wage Subsidies	186
9.2.4	The Minimum Wage	187
9.3	The Lessons from Theory	188
9.3.1	The Negative Income Tax	188
9.3.2	Low-wage Subsidies	194
9.3.3	The Guaranteed Minimum Income	194
9.3.4	The Minimum Wage	195
9.4	Empirical Evaluations	197
9.5	Recent Reforms	199

10 Taxation and Global Warming 203

10.1	The Optimal Price of Carbon	205
10.1.1	The Social Discount Rate	205
10.1.2	Catastrophic Change	210
10.1.3	Discounting Environmental Changes	211
10.2	International Issues	213
10.3	The Dynamics of Carbon Taxation	215

IV Appendixes 219**A Some Basic Microeconomics 221**

A.1 Consumer Theory 221

A.1.1 Hicksian and Marshallian Demands 221

A.1.2 The Slutsky Equations 223

A.1.3 Interpretation 224

A.2 Producer Theory 224

A.2.1 The Producer's Problem 225

A.2.2 Factor Demands 225

A.2.3 The Special Case of Constant Returns 227

B Optimal Control 229

Index 233