

Full contents

<i>List of figures</i>	viii
<i>Preface</i>	ix
1 Introduction	1
2 A brief history of economics and environmental policy	6
2.1 Towards a theory of environmental and resource economics	7
2.2 The “Warming tax”	11
2.3 The remaining period up to <i>Silent Spring</i>	12
2.4 Coase’s Theorem	15
2.5 The period after <i>Silent Spring</i>	19
2.6 Briefly on general equilibrium models	21
3 Markets and externalities	24
3.1 Measuring externalities	25
3.2 External effects in partial equilibrium	26
3.3 Abatement and permit trading	29
3.4 Uncertainty and externalities	33
3.5 Cost-efficient implementation of emission targets	36
3.6 A dynamic model of abatement	40
3.7 An intertemporal model of permit trading	43
4 Welfare and the environment: general equilibrium models	49
4.1 A static model with a consumption externality	50
4.2 A dynamic model with a stock externality	59
5 Nuclear power, uncertainty and externalities	79
5.1 Theoretical outline	80
5.2 The decentralized economy	85
5.3 A numerical example	87
6 Welfare comparisons, public policy and sustainable development	95
6.1 A starting point: welfare comparisons in the Brock Model	96
6.2 A multi-sector growth model and money metrics welfare measures	103

6.3	Imperfect markets and money metric welfare	112
6.4	Genuine saving, uncertainty and natural resources	119
7	Heterogeneity and redistribution	125
7.1	A non-atmospheric consumption externality	126
7.2	Environmental policy and asymmetric information	137
8	Efficiency, inefficiency and transboundary externalities	151
8.1	A baseline model with two jurisdictions	152
8.2	Some tax policy implications	159
8.3	A fiscal federalism approach to environmental policy	163
	<i>References</i>	173
	<i>Index</i>	181