

<i>Preface</i>	<i>ix</i>
<i>Acknowledgements</i>	<i>xi</i>
<i>Introduction</i>	<i>xiii</i>
<i>Summary of Conclusions</i>	<i>xv</i>

## **Part I Climate Change – Our Approach**

	Introduction	1
1	The Science of Climate Change: Scale of the Environment Challenge	3
2	Economics, Ethics and Climate Change	25
2A	Ethical Frameworks and Intertemporal Equity	46

## **Part II Impacts of Climate Change on Growth and Development**

	Introduction	63
3	How Climate Change will Affect People Around the World	65
4	Implications of Climate Change for Development	104
5	Costs of Climate Change in Developed Countries	138
6	Economic Modelling of Climate-Change Impacts	161

## **Part III The Economics of Stabilisation**

	Introduction	191
7	Projecting the Growth of Greenhouse-Gas Emissions	193
7A	Climate Change and the Environmental Kuznets Curve	216
8	The Challenge of Stabilisation	218
9	Identifying the Costs of Mitigation	238
10	Macroeconomic Models of Costs	267
11	Structural Change and Competitiveness	282
11A	Key Statistics for 123 UK Production Sectors	297
12	Opportunities and Wider Benefits from Climate Policies	302
13	Towards a Goal for Climate-Change Policy	318

## **Part IV Policy Responses for Mitigation**

	Introduction	349
14	Harnessing Markets for Mitigation – The Role of Taxation and Trading	351

15	Carbon Pricing and Emissions Markets in Practice	368
16	Accelerating Technological Innovation	393
17	Beyond Carbon Markets and Technology	427

## **Part V Policy Responses for Adaptation**

	Introduction	455
18	Understanding the Economics of Adaptation	457
19	Adaptation in the Developed World	471
20	Adaptation in the Developing World	486

## **Part VI International Collective Action**

	Introduction	507
21	Framework for Understanding International Collective Action for Climate Change	509
22	Creating a Global Price for Carbon	530
23	Supporting the Transition to a Low-Carbon Global Economy	555
24	Promoting Effective International Technology Co-operation	581
25	Reversing Emissions from Land Use Change	603
26	International Support for Adaptation	622
27	Conclusions: Building and Sustaining International Co-operation on Climate Change	640
	<i>Abbreviations and Acronyms</i>	645
	<i>Postscript</i>	649
	<i>Technical Annex to Postscript</i>	658
	<i>Index</i>	673