

# Contents

## Part I Interactions Between Economy and Climate

<b>Climate Change and Technical Progress: Impact of Informational Constraints . . . . .</b>	<b>3</b>
Anton Bondarev, Christiane Clemens, and Alfred Greiner	
<b>Environmental Policy in a Dynamic Model with Heterogeneous Agents and Voting . . . . .</b>	<b>37</b>
Kirill Borissov, Thierry Bréchet, and Stéphane Lambrecht	
<b>Optimal Environmental Policy in the Presence of Multiple Equilibria and Reversible Hysteresis . . . . .</b>	<b>61</b>
Ben J. Heijdra and Pim Heijnen	
<b>Modeling the Dynamics of the Transition to a Green Economy . . . . .</b>	<b>87</b>
Stefan Mittnik, Willi Semmler, Mika Kato, and Daniel Samaan	
<b>One-Parameter GHG Emission Policy with R&amp;D-Based Growth . . . . .</b>	<b>111</b>
Tapio Palokangas	
<b>Pollution, Public Health Care, and Life Expectancy when Inequality Matters . . . . .</b>	<b>127</b>
Andreas Schaefer and Alexia Prskawetz	
<b>Uncertain Climate Policy and the Green Paradox . . . . .</b>	<b>155</b>
Sjak Smulders, Yacov Tsur, and Amos Zemel	
<b>Uniqueness Versus Indeterminacy in the Tragedy of the Commons: A ‘Geometric’ Approach . . . . .</b>	<b>169</b>
Franz Wirl	
<b>Part II Optimal Extraction of Resources</b>	
<b>Dynamic Behavior of Oil Importers and Exporters Under Uncertainty . . . . .</b>	<b>195</b>
Lucas Bretschger and Alexandra Vinogradova	

<b>Robust Control of a Spatially Distributed Commercial Fishery . . . . .</b>	<b>215</b>
William A. Brock, Anastasios Xepapadeas, and Athanasios N. Yannacopoulos	
<b>On the Effect of Resource Exploitation on Growth: Domestic Innovation vs. Technological Diffusion Through Trade . . . . .</b>	<b>243</b>
Francisco Cabo, Guiomar Martín-Herrán, and María Pilar Martínez-García	
<b>Forest Management and Biodiversity in Size-Structured Forests Under Climate Change . . . . .</b>	<b>265</b>
Renan Goetz, Carme Cañizares, Joan Pujol, and Angels Xabadia	
<b>Carbon Taxes and Comparison of Trading Regimes in Fossil Fuels . . .</b>	<b>287</b>
Seiichi Katayama, Ngo Van Long, and Hiroshi Ohta	
<b>Landowning, Status and Population Growth . . . . .</b>	<b>315</b>
Ulla Lehmijoki and Tapio Palokangas	
<b>Optimal Harvesting of Size-Structured Biological Populations . . . . .</b>	<b>329</b>
Olli Tahvonen	