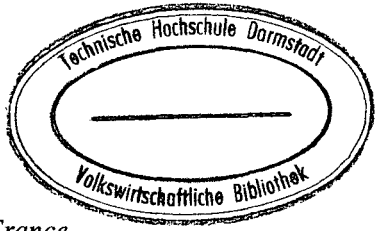


Models of Sustainable Development



Edited by Sylvie Faucheux
C3ED, Université de Versailles, France

David Pearce
CSERGE, University College London, UK

John Proops
Environmental Policy Unit, Keele University, UK

NEW HORIZONS IN ENVIRONMENTAL ECONOMICS

Edward Elgar
Cheltenham, UK • Brookfield, US

Contents

<i>List of Figures and Tables</i>	vii
<i>List of Contributors</i>	ix
<i>Preface</i>	xi
† 1. Introduction	1
<i>Sylvie Faucheux, David Pearce and John Proops</i>	
PART I Neoclassical Models	
✓ 2. Paradigms for Environmental Choice: Sustainability <i>versus</i> Optimality	21
<i>Richard Dubourg and David Pearce</i>	
3. A Renewable Natural Resource Reproduction Competitive Equilibrium: Overlapping Intergenerational Accounting with a Renewable Resource	37
<i>Henk Peer</i>	
4. Intergenerational Equity, Fiscal Policy and Environmental Sustainability	58
<i>Giancarlo Marini and Pasquale Scaramozzino</i>	
✓ 5. Sustainable Development through Endogenous Growth Models	73
<i>Sylviane Gastaldo and Lionel Ragot</i>	
6. Economic Effects of Environmental Policies and Constraints: What Can We Learn from Computable General Equilibrium Models?	87
<i>Ghislaine Destais</i>	
PART II Evolutionary Models	
7. Classical Foundations for a Physiological and Ecological Model of Sustainability	105
<i>Paul Christensen</i>	
× 8. Technical Change: An Essential Variable in the Choice of a Sustainable Development Trajectory	123
<i>Jacques Benhaim and Patrick Schembri</i>	

9.	The Transition from Hydrocarbons: The Issues for Policy <i>René Kemp</i>	151
10.	Cyclical Growth and Primary Resource Constraint <i>Mario Amendola, Claude Froeschlé, Jean-Luc Gaffard and Elena Lega</i>	176
11.	Climate Change and Economic Development: A Neo-Aus- trian Approach <i>Frank Jöst</i>	187
12.	Technology and Sustainability: An Organisational and Institutional Change <i>Nathalie Lahaye and Daniel Llerena</i>	205
PART III Ecological Economic Models		
13.	Ecological Resilience in the Sustainability of Economic Development <i>Charles Perrings</i>	231
14.	Integrated Ecological Economics Regional Modelling for Sustainable Development <i>Enrique Reyes, Robert Costanza, Lisa Waigner, Ed Debellevue and Nancy Bockstael</i>	253
15.	Non-linear Ecological Models and Economic Perturbation: Sustainability as a Concept of Stability Corridors <i>Frank Beckenbach and Markus Pasche</i>	278
16.	A System of Dynamic Models for Ecological Economic Regional Development <i>Paul Safonov</i>	302
PART IV Neo-Ricardian Models		
17.	Cherishing the Future, Cherishing the Other: A 'Post-Classical' Theory of Value <i>Martin O'Connor</i>	321
18.	Sustainability and Stability in a Classical Model of Production <i>Guido Erreygers</i>	345
	<i>Index</i>	363