

Joint Production and Responsibility in Ecological Economics

On the Foundations of Environmental Policy

Stefan Baumgartner, Malte Faber

University of Heidelberg, Germany

Johannes Schiller

*UFZ Centre for Environmental Research Leipzig-Halle,
Germany*

ADVANCES IN ECOLOGICAL ECONOMICS

Edward Elgar

Cheltenham, UK • Northampton, MA, USA

Contents

<i>Authors and Co/Authors</i>	vii
<i>Preface</i>	ix
1. Introduction: Joint Production and Ecological Economics <i>with Harald Dyckhoff and John Proops-</i>	1
PART I CONCEPTUAL FOUNDATIONS	
2. Conceptualising Joint Production	19
3. Thermodynamics of Joint Production <i>with John Proops and Jakob de Swaan Arons</i>	46
4. Joint Production, Stocks, and Dynamics	69
5. Joint Production and the Dynamics of Environmental Problems	89
PART II ECONOMICS	
6. Joint Production in the History of Economic Thought	107
7. Joint Production and the Philosophy of Economics	152
8. Ambivalence of Joint Outputs	162
9. The Investment Decision under Joint Production <i>with John Proops</i>	183
10. Structural Change under Joint Production <i>with Ralph Winkler</i>	199
PART III ETHICS	
11. The Concept of Responsibility <i>with Thomas Petersen</i>	225
12. Joint Production, Knowledge, and Responsibility <i>with Thomas Petersen</i>	238

13. Individual and Collective Responsibility <i>with Thomas Petersen</i>	253
14. Responsibility in Politics and in the Economy <i>with Thomas Petersen</i>	261
PART IV CASE STUDIES	
15. Waste Paper: Price Ambivalence <i>with Ralph Winkler</i>	273
16. Chlorine: Innovation and Industrial Evolution <i>with Frank Jost and Georg Muller-Fiirstenberger</i>	292 >
17. Cement: Stock Dynamics and Complexity <i>with Eva Kiesele</i>	307
18. Sulphuric Acid: Joint Externalities <i>with Frank Jost and Georg Muller-Fiirstenberger</i>	327
19. Conclusions and Perspectives	339
<i>References</i>	347
<i>Index</i>	373