

Table of Contents

Preface	vii
1 Introduction	1
Geoffrey J.D. Hewings, Michael Sonis and David Boyce	
Part I Trade and Transportation	
2 Spatial Effects of European Transport Policy: a CGE Approach	11
Johannes Bröcker	
3 Combined Model of Interregional Commodity Flows on a Transportation Network	29
David Boyce	
4 Why Do Countries Pursue Reciprocal Trade Agreements? A Case Study of North America	41
Michael A. Kouparitsas	
5 The Regional Impact of Foreign Direct Investment: Structure and Behavior in an Ownership-Disaggregated Computable General Equilibrium Model	65
Gary Gillespie, Peter G. McGregor, J. Kim Swales and Ya Ping Yin	
6 Economic Landscapes: An Application to the Brazilian Economy and to the Sugar Cane Complex	99
Joaquim J.M. Guilhoto, Marta C. Marjotta-Maistro and Geoffrey J.D. Hewings	
7 On the Economic Impact of the Transport Sector: A Critical Review with Dutch Bi-Regional Input-Output Data	119
Jan Oosterhaven and Dirk Stelder	
8 The Influence of Transport Investments on Economy and Environment: An Analysis from the Perspective of Taiwan	135
Yoshiro Higano, Takeshi Mizunoya, Cheol-Ho Shin and Hsin-Lung Lo	
9 The US Regional Ferrous Scrap Model	159
Frank Giarratani, Gene Gruver and Craig Richmond	

Part II Structure and Structural Change

10	The RAS Structural Decomposition Approach	179
	Erik Dietzenbacher and Rutger Hoekstra	
11	Structural Changes in the Chicago Economy: A Field of Influence Analysis	201
	Yasuhide Okuyama, Geoffrey J.D. Hewings, Michael Sonis and Philip Israilevich	
12	Modeling Structural Linkages in Dynamic and Spatial Interindustry Systems	225
	Guy R. West	
13	Restrictions in Integrated Econometric+Input-Output Modeling	251
	James P. LeSage and Sergio J. Rey	
14	Regional Input-Output, Leontief-Strout and Uncertainty	267
	John R. Roy	
15	Using the REAL Models to Understand Midwest Restructuring	279
	William A. Testa	
16	Keystone Sector Identification	289
	Maureen Kilkenny and Laura Nalbarte	
17	A Spatial Output Decomposition Method for Assessing Regional Economic Structure	315
	Randall W. Jackson and David A. Dzikowski	
18	New Explanatory Models for Analyzing Spatial Innovation: A Comparative Investigation	329
	Aura Reggiani, Peter Nijkamp and E. Sabella	
19	Vertical Specialization and Interregional Trade: Hierarchy of Spatial Production Cycles and Feedback Loop Analysis in the Midwest Economy	347
	Michael Sonis, Geoffrey J.D. Hewings and Yasuhide Okuyama	
20	Miyazawa-Sraffa-Leontief Income Distribution Models	365
	Yoshio Kimura, Michael Sonis and Geoffrey J.D. Hewings	

Part III Methodological Issues

21	Frame-Shifting in Regional General Equilibrium Models	387
	Philip R. Israilevich	

**22 Input-output Systems in Regional and Interregional
CGE Modeling.....407**
Eduardo A. Haddad, Geoffrey J. D. Hewings and Matthew Peter

**23 Direct and Indirect Industrial Pollution Generation:
A Field of Influence Approach.....433**
Oliver Fritz, Michael Sonis and Geoffrey J.D. Hewings

**24 Regional Economic Modeling in Denmark: Construction
of an Interregional SAM with Data at High Levels of
Disaggregation, Subject to National Constraints445**
Bjarne Madsen and Chris Jensen-Butler

Subject Index457