

# Contents

---

<i>List of figures</i>	viii
<i>List of tables</i>	x
<i>List of contributors</i>	xiv
<i>Foreword</i>	xvi
<i>Preface</i>	xviii
<i>Acknowledgements</i>	xx

- 1 Systems of innovation for development in the knowledge era:  
an introduction 1  
*Helena Maria Martins Lastres, José E. Cassiolato and Maria  
Lucia Maciel*

## PART 1 SYSTEMS OF INNOVATION FOR DEVELOPMENT IN THE KNOWLEDGE ERA

- 2 Structure and development of a knowledge based economy: the  
policy implications 37  
*Pascal Petit*
- 3 The financing of innovation-related investment in the  
contemporary global finance-dominated accumulation regime 61  
*François Chesnais and Catherine Sauviat*
- 4 A hard landing for the 'new economy'? Information  
technology and the United States national system of  
innovation 119  
*Chris Freeman*
- 5 Promoting innovation systems as a response to the globalizing  
learning economy 141  
*Björn Johnson and Bengt-Åke Lundvall*
- 6 Globalization and glocalization: problems for developing  
countries and policy (supranational, national and subnational)  
implications 185  
*Marc Humbert*

7	Globalization, territorial scales and regionalized technology policy in Brazil <i>Clélio Campolina Diniz</i>	209
8	On the policy implications of variety growth for developing and industrializing countries <i>Pier Paolo Saviotti</i>	224
9	From local clusters to innovation systems <i>Lynn Mytelka and Fulvia Farinelli</i>	249
10	Clusters and chains: how inter-firm organization influences industrial upgrading <i>Hubert Schmitz</i>	273
11	Knowledge, innovation and learning: systems and policies in the north and in the south <i>Rodrigo Arocena and Judith Sutz</i>	291
12	Macroeconomic regimes and business strategies: an alternative industrial policy for Brazil in the wake of the 21st century <i>Luciano G. Coutinho</i>	311
PART II LOCAL PRODUCTIVE CLUSTERS AND INNOVATION SYSTEMS IN BRAZIL		
13	Clustering in a backward region: the footwear productive system in Campina Grande <i>Cristina Lemos and Alexandre Palhano</i>	331
14	Learning trajectories and upgrading strategies in the footwear productive system of Sinos Valley/RS <i>Marco Antonio Vargas and Rejane Maria Alievi</i>	352
15	Textile and clothing local productive system in the Itajai Valley: local capabilities and partial interactive learning <i>Renato Ramos Campos, Silvio Antônio Ferraz Cário and José Antônio Nicolau</i>	376
16	Exploiting natural resources without local co-ordination: ornamental stones production systems in Espírito Santo (ES) and Rio de Janeiro (RJ) states <i>Arlindo Villaschi Filho, Miriam Magdala Pinto and Maurício Sabadini</i>	403

17	Strengthening and weakening local capabilities: the case of the local innovation system in the Paraná soybean agroindustrial sector	426
	<i>Nilson de Paula, Gabriel Porcile and Fábio Scatolin</i>	
18	Liberalization and local innovative capabilities: the Fiat supplier network in Minas Gerais	441
	<i>Mauro Borges Lemos, Clélio Campolina Diniz, Fabiana Borges Teixeira dos Santos, Marco Aurélio Crocco and Otávio Camargo</i>	
19	Downgrading local capabilities in IT: the telecom innovation system in Campinas	470
	<i>Marina Szapiro</i>	
20	Building up complex productive systems in developing countries: the Embraer experience	499
	<i>Roberto Bernardes and Luiz Guilherme de Oliveira</i>	
21	The metal-mechanic production system in Espírito Santo: commodity exports and local industrial capabilities	525
	<i>Arlindo Villaschi Filho and Eliene dos Santos Lima</i>	
22	Structural features of local productive systems in the Brazilian economy: a comparative analysis	544
	<i>Jorge Britto and Eduardo Albuquerque</i>	
23	Local productive and innovative systems in Brazil: a policy perspective	567
	<i>José E. Cassiolato, Arlindo Villaschi Filho and Renato Ramos Campos</i>	
	<i>Bibliography</i>	584
	<i>Index</i>	629