Contents

List of contributors		viii
For	eword	xiv
Pre	face	XV
Ack	nowledgements	xvii
PA	RT I INTRODUCTION	
	roduction: manufacturing matters: space, place, time and production a Vanchan, John R. Bryson and Jennifer Clark	3
PA	RT II (PROCESSES) BUILDING BLOCKS: FACTOR INPUTS AND PRODUCTION ORGANIZATION	
1	Manufacturing management in theory and practice Paul L. Forrester	17
2	Manufacturing and labor Sally Weller	30
3	How does financialization affect manufacturing investment? Preliminary evidence from the US and UK Susan Christopherson	42
4	Manufacturing logistics Peter V. Hall	58
5	Reshoring and the "manufacturing moment" Margaret Cowell and John Provo	71
6	Relocation of production activities and underlying social dynamics: an analytical framework based on a Canadian perspective <i>Patrice Jalette</i>	84
7	Tool-less manufacture: digital fabrication, 3D printing and the third industrial revolution Michael Ward	100
8	Engineering and manufacturing: concurrent maturation of xRL Ben Wang, William C. Kessler and Andrew Dugenske	109
9	Energy and manufacturing: technology and policy transformations and challenges Marilyn A. Brown and Gyungwon Kim	121

vi	Handbook of manufacturing industries in the world economy	
10	Design and manufacturing: the competitiveness of American, European and Chinese industrial design companies Vida Vanchan and John R. Bryson	147
11	Intellectual property and patents: knowledge creation and diffusion Dieter F. Kogler	163
PA	RT III INDUSTRY AND FIRM CASE STUDIES	
12	Manufacturing textile futures: innovation, adaptation and the UK textiles industry Megan Ronayne	191
13	Finding a future for the U.S. furniture industry Susan Walcott	206
14	New geographies of advanced manufacturing: the case of machine tools Ronald V. Kalafsky	217
15	Farm machinery: a changing path to feed the world Dawn M. Drake	229
16	Hidden in plain sight: the North American optics and photonics industry Jennifer Clark	245
17	Traditional and emerging markets in the global steel supply chain Carey Durkin Treado	267
18	Intermediate manufacturing: profit, dependency and value attainment in supply chains Rachel Mulhall	281
19	Aerospace manufacturing: past, present and future Colin G. Drury	294
20	Manufacturing stoke: emergence, transformation and consolidation in the surfboard industry Andrew Warren and Chris Gibson	309
21	Migrant manufacturing: translocal production and the establishment of a Polish bakery in Birmingham, UK Catherine Harris	326
22	Škoda Auto: the transformation from a domestic to a Tier Two lead firm Petr Pavlinek	345
23	Samsung: restructuring, innovation, and global networks Sam Ock Park	362

503

PAI	RT IV POLICY NARRATIVES IN MANUFACTURING	
24	Stability amid industrial change: the geography of U.S. deindustrialization since 1980 Marc Doussard and Greg Schrock	381
25	Searching for advanced manufacturing in the United Kingdom and United States: definitions, measurement and public policy Finbarr Livesey	397
26	National manufacturing policy, local real estate markets and the missing region: prospects for urban industrial development in the U.S. Laura Wolf-Powers	409
27	The city and industry: deurbanizing manufacturing in New York City? Lynn McCormick	425
28	Manufacturing in the knowledge economy: innovation in low-tech industries Teis Hansen and Lars Winther	439
29	Crafting a comeback: cultivating an innovative ecosystem in mature regions Maryann Feldman and Lauren Lanahan	451
30	From skill mismatch to reinterpretation: challenges and solutions for manufacturing worker retention and recruitment Nichola J. Lowe	474
PA	RT V CONCLUSION	
Conclusion: regeneration economies: manufacturing as the next industrial revolution Jennifer Clark, John R. Bryson and Vida Vanchan		491

Index