## The Rise of the Network Society

Manuel Castells



## Contents

List of figures	×
List of tables	xii
Acknowledgements	xv
Prologue: The net and the self	1
Technology, society, and historical change Informationalism, industrialism, capitalism, modes of development and modes of produc	
Informationalism and capitalist <i>perestro</i>	
The self in the informational society	22
A word on method	25
1 The Information Technology Revolution	on 29
Which revolution?	29
Lessons from the Industrial Revolution	34
The historical sequence of the Information	Геchnology
Revolution	40
Micro-engineering macro changes: elec	ctronics and
information	<b>41</b>
The 1970s technological divide	46
Technologies of life	47
Social context and the dynamics of tech	
change	50
Models, actors, and sites of the Information	
Revolution	53
The information technology paradigm	60

vi Contents

2	The informational economy and the process of globalization	66
	Introduction	66
	Productivity, competitiveness, and the informational	
	economy	67
	The productivity enigma	67
	Is knowledge-based productivity specific to the	
	informational economy?	69
	Informationalism and capitalism, productivity and	
	profitability	80
	The repoliticization of informational capitalism	88
	The historical specificity of informationalism	91
	The global economy: genesis, structure, and dynamics	92
	The limits to globalization	97
	The regional differentiation of the global economy	99
	The segmentation of the global economy	102
	The sources of competitiveness in the global	
	economy	103
	The newest international division of labor	106
	Changing patterns of international division of labor	
	in the informational/global economy: triad power,	•
	the rise of the Pacific, and the end of the Third	
	World	107
	Sources of growth and stagnation in the inter-	
	national division of labor: the changing fortunes of	
	Latin America	115
	The dynamics of exclusion from the new global	
	economy: Africa's fate?	133
	The last frontier of the global economy: the	
	segmented incorporation of Russia and the ex-Soviet	
	republics	136
	The architecture and geometry of the	
	informational/global economy	145
	Appendix: Some methodological comments on	
	adjustment policies in Africa and their evaluation	148
_		
3	The network enterprise: the culture, institutions, and organizations of the informational economy	151
	Introduction	151
	Organizational trajectories in the restructuring of	101
	capitalism and in the transition from industrialism to	
	informationalism	152

	Contents	vii
	From mass production to flexible production Small business and the crisis of the large corporation:	154
	myth and reality "Toyotism": management-worker cooperation,	155
	multifunctional labor, total quality control, and	
	reduction of uncertainty	157
	Interfirm networking	160
	Corporate strategic alliances	162
	The horizontal corporation and global business	104
	networks	164
	The crisis of the vertical corporation model and the	165
	rise of business networks	167 168
	Information technology and the network enterprise Culture, institutions, and economic organization: East	100
	Asian business networks	172
	A typology of East Asian business networks	174
	Culture, organizations and institutions: Asian	
	business networks and the developmental state	179
	Multinational enterprises, transnational corporations,	
	and international networks	190
	The spirit of informationalism	195
ı	The transformation of work and employment:	
•	networkers, jobless, and flextimers	201
	•••••••••••••••••••••••••••••••••••••••	
	The historical evolution of employment and occupational	
	structure in advanced capitalist countries: the G-7,	
	1920–2005	202
	Postindustrialism, the service economy, and the	
	informational society	203
	The transformation of employment structure,	900
	1920–1970 and 1970–1990 The pay accupational structure	208
	The new occupational structure The maturing of the informational society:	216
	employment projections to the twenty-first century	221
	Summing up: the evolution of employment structure	441
	and its implications for a comparative analysis of the	
	informational society	228
	Is there a global labor force?	232
	The work process in the informational paradigm	240
	The effects of information technology on employment:	
	toward a jobless society?	251
	Work and the informational divide: flextimers	264

viii Contents

	Information technology and the restructuring of capital–labor relationships: social dualism or fragmented	070
	societies?	272
	Appendix A: Statistical tables for chapter 4	281
	Appendix B: Methodological note and statistical references	311
5	The culture of real virtuality: the integration of electronic communication, the end of the mass	
	audience, and the rise of interactive networks	327
	Introduction	327
	From the Gutenberg galaxy to the McLuhan galaxy: the	
	rise of mass media culture	330
	The new media and the diversification of mass audience Computer-mediated communication, institutional control,	337
	social networks, and virtual communities	342
	The Minitel story: l'état et l'amour	343
	The Internet constellation	345
	The interactive society	358
	The grand fusion: multimedia as symbolic environment	364
	The culture of real virtuality	372
6	The space of flows	376
U	The space of hours	370
U	Introduction	376
U	Introduction Advanced services, information flows, and the global city	376 378
Ū	Introduction Advanced services, information flows, and the global city The new industrial space	376 378 386
U	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities?	376 378 386 394
U	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city	376 378 386 394 398
U	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier	376 378 386 394 398 399
•	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities	376 378 386 394 398 399 401
•	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier	376 378 386 394 398 399
•	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities Third millennium urbanization: megacities The social theory of space and the theory of the space of flows	376 378 386 394 398 399 401
•	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities Third millennium urbanization: megacities The social theory of space and the theory of the space of flows The architecture of the end of history	376 378 386 394 398 399 401 403
•	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities Third millennium urbanization: megacities The social theory of space and the theory of the space of flows	376 378 386 394 398 399 401 403
7	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities Third millennium urbanization: megacities The social theory of space and the theory of the space of flows The architecture of the end of history Space of flows and space of places	376 378 386 394 398 399 401 403 410 418
	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities Third millennium urbanization: megacities The social theory of space and the theory of the space of flows The architecture of the end of history Space of flows and space of places	376 378 386 394 398 399 401 403 410 418 423
	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city     America's last suburban frontier     The fading charm of European cities     Third millennium urbanization: megacities The social theory of space and the theory of the space of flows The architecture of the end of history Space of flows and space of places  The edge of forever: timeless time  Introduction	376 378 386 394 398 399 401 403 410 418 423
	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city America's last suburban frontier The fading charm of European cities Third millennium urbanization: megacities The social theory of space and the theory of the space of flows The architecture of the end of history Space of flows and space of places  The edge of forever: timeless time	376 378 386 394 398 399 401 403 410 418 423 <b>429</b>
	Introduction Advanced services, information flows, and the global city The new industrial space Everyday life in the electronic cottage: the end of cities? The transformation of urban form: the informational city     America's last suburban frontier     The fading charm of European cities     Third millennium urbanization: megacities The social theory of space and the theory of the space of flows The architecture of the end of history Space of flows and space of places  The edge of forever: timeless time  Introduction     Time, history, and society	376 378 386 394 398 399 401 403 410 418 423 <b>429</b> 430

Contents	ix
The blurring of lifecycle: toward social arrhythmia?	445
Death denied	451
Instant wars	454
Virtual time	461
Time, space, and society: the edge of forever	464
Conclusion: The network society	469
Summary of contents of Volumes II and III	479
Bibliography <sup>°</sup>	481
Index	533