

# Contents

Acknowledgements	vii
1 Introduction: Integrated Circuits, Circuits of Capital, and Revolutionary Change	1
PART I Theories and Trajectories	11
2 Robots and Capitalism <i>Tessa Morris-Suzuki</i>	13
3 Why Machines Cannot Create Value; or, Marx's Theory of Machines <i>George Caffentzis</i>	29
4 Capitalism in the Computer Age and Afterword <i>Tessa Morris-Suzuki</i>	57
5 High-Tech Hype: Promises and Realities of Technology in the Twenty-First Century <i>Guglielmo Carchedi</i>	73
6 Value Creation in the Late Twentieth Century: The Rise of the Knowledge Worker <i>Martin Kenney</i>	87
7 The Information Commodity: A Preliminary View <i>Dan Schiller</i>	103
8 The Digital Advantage <i>Jim Davis and Michael Stack</i>	121

9	The Biotechnology Revolution: Self-Replicating Factories and the Ownership of Life Forms Jonathan King	145
10	Structural Unemployment and the Qualitative Transformation of Capitalism Thomas A. Hirschl	157
PART II Conflicts and Transformations		175
11	How Will North America Work in the Twenty-First Century? Sally <i>Lerner</i>	177
12	Cycles and Circuits of Struggle in High-Technology Capitalism Nick Witheford	195
13	A Note on Automation and Alienation <i>Ramin Ramtin</i>	243
14	New Technologies, Neoliberalism and Social Polarization in Mexico's Agriculture <i>Gerardo Otero</i> , <i>Steffanie</i> Scott and Chris Gilbreth	253
15	The New Technological Imperative in Africa: Class Struggle on the Edge of Third-Wave Revolution <i>Abdul Alkalimat</i>	271
16	Heresies and Prophecies: The Social and Political Fallout of the Technological Revolution An Interview with A. Sivanandan	287
17	The Birth of a Modern Proletariat Nelson <i>Peery</i>	297
Contributors		303