Contents

Preface	xi	
Acknowledgments		xiii

Introduction 1

Edward f. Hackett, Olga Amsterdamska, Michael Lynch, and Judy Wajcman

- I Ideas and Perspectives 9

 Michael Lynch
- 1 Science and Technology Studies and an Engaged Program 13 Sergio Sismondo
- 2 The Social Study of Science before Kuhn 33 Stephen Turner
- 3 Political Theory in Science and Technology Studies 63 Charles Thorpe
- 4 A Textbook Case Revisited—Knowledge as a Mode of Existence 83 Bruno Latour
- 5 The Social Worlds Framework: A Theory/Methods Package 113

 Adele E. Clarke and Susan Leigh Star
- 6 Feminist STS and the Sciences of the Artificial 139 *Lucy Suchman*
- 7 Technological Determinism Is Dead; Long Live Technological
 Determinism 165
 Sally Wyatt
- 8 Pramoedya's Chickens: Postcolonial Studies of Technoscience 181
 Warwick Anderson and Vincanne Adams

Contents

i!	Practices, People, and PSaces	205
	Olga Amsterdamska	

- 9 Argumentation in Science: The Cross-Fertilization of Argumentation Theory and Science Studies 211
 William Keith and William Rehg
- 10 STS and Social Epistemology of Science 241 *Miriam Solomon*
- 11 Cognitive Studies of Science and Technology 259 *Ronald N. Giere*
- 12 Give Me a Laboratory and I Will Raise a Discipline: The Past, Present, and Future Politics of Laboratory Studies in STS 279 Park Doing
- 13 Social Studies of Scientific Imaging and Visualization 297 Regula Valerie Burri and foseph Dumit
- 14 Messy Shapes of Knowledge—STS Explores Informatization, New Media, and Academic Work 319
 The Virtual Knowledge Studio: Paul Wouters, Katie Vann, Andrea Schamhorst, Matt Ratto, Una Hellsten, fenny Fry, and Anne Beaulieu
- 15 Sites of Scientific Practice: The Enduring Importance of Place 353 *Christopher R. Henke and Thomas F. Gieryn*
- 16 Scientific Training and the Creation of Scientific Knowledge 377

 Cyrus C. M. Mody and David Kaiser
- 17 The Coming Gender Revolution in Science 403

 Henry Etzkowitz, Stefan Fuchs, Namrata Gupta, Carol Kemelgor,
 and Marina Ranga
- III Politics and Publics 429

 Edward J. Hackett
- 18 Science and the Modern World 433 Steven Shapin
- 19 Science and Public Participation 449 Massimiano Bucchi and Federico Neresini

Contents ix

20	Science, Technology, and Social Movements	473
	David Hess, Steve Breyman, Nancy Campbell, and	l Brian Martin

- 21 Patient Groups and Health Movements 499 Steven Epstein
- 22 User-Technology Relationships: Some Recent Developments 541 Nelly Oudshoorn and Trevor Pinch
- 23 STS and Ethics: Implications for Engineering Ethics 567

 Deborah G. Johnson and Jameson M. Wetmore
- 24 STS Perspectives on Scientific Governance 583 *Alan Irwin*
- 25 Expertise: From Attribute to Attribution and Back Again? 609 Robert Evans and Harry Collins
- IV Institutions and Economics 631

 Olga Amsterdamska
- 26 The Commercialization of Science and the Response of STS 635 Philip Mirowski and Esther-Mir] am Sent
- Organizational Contexts of Science: Boundaries and Relationships between
 University and Industry 691
 Jennifer L. Croissant and Laurel Smith-Doerr
- Science, Technology, and the Military: Priorities, Preoccupations, and Possibilities 719
 Brian Rappert, Brian Balmer, and John Stone
- 29 The Right Patients for the Drug: Pharmaceutical Circuits and the Codification of Illness 741
 Andrew Lakoff
- 30 Making Order: Law and Science in Action 761 Sheila Jasanoff
- 31 Knowledge and Development 787

 Susan E. Cozzens, Sonia Gatchair, Kyung-Sup Kim, Gonzalo Ordóñez, and

 Anupit Supnithadnaporn

- V Emergent Technosciences 813 *Judy Wajcman*
- 32 Genomics, STS, and the Making of Sociotechnical Futures 817

 Adam M. Hedgecoe and Paul A. Martin
- 33 Emerging Medical Technologies 841 *Linda F. Hogle*
- 34 Biomedica! Techrioldgies, Cultural Horizons, and Contested Boundaries 875 *Margaret Lock*
- 35 STS and Social Studies of Finance 901 Alex Freda
- 36 Nature and the Environment in Science and Technology Studies 921 Steven Yearley
- 37 Bridging STS and Communication Studies: Scholarship on Media and Information Technologies 949

 Pablo Boczkowski and Leah A. Lievrouw
- 38 Anticipatory Governance of Nanotechnology: Foresight, Engagement, and Integration 979

 Daniel Barben, Erik Fisher, Cynthia Selin, and David H. Guston

List of Contributors 1001 Name Index 1015 Subject Index 1047