

Contents

Preface ix

Acknowledgments xi

Introduction 1

Ulrike Felt, Rayvon Fouché, Clark A. Miller, Laurel Smith-Doerr

I Doing, Exploring, and Reflecting on Methods 27

Laurel Smith-Doerr

1 STS as Method 31

John Law

2 Rethinking Documents 59

Kalpana Shankar, David Hakken, and Carsten Østerlund

3 Intellectual and Practical Contributions of Scientometrics to STS 87

Sally Wyatt, Staša Milojević, Han Woo Park, and Loet Leydesdorff

4 Ethnomethodology, Video Analysis, and STS 113

Philippe Sormani, Morana Alač, Alain Bovet, and Christian Greiffenhagen

5 Art, Design, and Performance 139

Chris Salter, Regula Valérie Burri, and Joseph Dumit

6 Engaging, Designing, and Making Digital Systems 169

Janet Vertesi, David Ribes, Laura Forlano, Yanni Loukissas, and Marisa Leavitt Cohn

7 Experiments in Participation 195

Javier Lezaun, Noortje Marres, and Manuel Tironi

8 Making and Doing: Engagement and Reflexive Learning in STS 223

Gary Lee Downey and Teun Zuiderent-Jerak

- II Making Knowledge, People, and Societies 253**
- Ulrike Felt
- 9 Science and Democracy 259**
- Sheila Jasanoff
- 10 STS and Social Movements: Pasts and Futures 289**
- Steve Breyman, Nancy Campbell, Virginia Eubanks, and Abby Kinchy
- 11 Structural Inequality and the Politics of Science and Technology 319**
- David J. Hess, Sulfikar Amir, Scott Frickel, Daniel Lee Kleinman, Kelly Moore, and Logan D. A. Williams
- 12 Race and Science in the Twenty-First Century 349**
- Ramya M. Rajagopalan, Alondra Nelson, and Joan H. Fujimura
- 13 Sex, Gender, and Sexuality in Biomedicine 379**
- Jennifer R. Fishman, Laura Mamo, and Patrick R. Grzanka
- 14 Feminism, Postcolonialism, Technoscience 407**
- Banu Subramaniam, Laura Foster, Sandra Harding, Deboleena Roy, and Kim TallBear
- 15 Conceptualizing Imaginaries of Science, Technology, and Society 435**
- Maureen McNeil, Michael Arribas-Ayllon, Joan Haran, Adrian Mackenzie, and Richard Tutton
- 16 Performing and Governing the Future in Science and Technology 465**
- Kornelia Konrad, Harro van Lente, Christopher Groves, and Cynthia Selin
- III Sociotechnological (Re-)configurations 495**
- Rayvon Fouché
- 17 Reconceptualizing Users through Enriching Ethnography 501**
- Lisa-Jo K. van den Scott, Carrie B. Sanders, and Antony J. Puddephatt
- 18 How Infrastructures Matter 529**
- Stephen C. Slota and Geoffrey C. Bowker
- 19 STS in the City 555**
- Ignacio Farías and Anders Blok
- 20 The Sociotechnical Architecture of Information Networks 583**
- Hector Postigo and Casey O'Donnell
- 21 Machineries of Finance: Technologies and Sciences of Markets 609**
- Alex Preda

22 A Critical Theory of Technology 635

Andrew Feenberg

23 STS for Development 665

Aalok Khandekar, Koen Beumer, Annapurna Mamidipudi, Pankaj Sekhsaria, and Wiebe E. Bijker

IV Organizing and Governing Science 695

Laurel Smith-Doerr

24 Gender, (In)equity, and the Scientific Workforce 701

Mary Frank Fox, Kjersten Bunker Whittington, and Marcela Linková

25 The Social and Epistemic Organization of Scientific Work 733

Edward J. Hackett, John N. Parker, Niki Vermeulen, and Bart Penders

26 Interactional Expertise 765

Harry Collins, Robert Evans, and Martin Weinel

27 Surveillance and Regulation of Laboratory Practices 793

Ruthanne Huisng and Susan S. Silbey

28 Ethics as Governance in Genomics and Beyond 823

Stephen Hilgartner, Barbara Prainsack, and J. Benjamin Hurlbut

29 Responsible Research and Innovation 853

Jack Stilgoe and David H. Guston

30 Reframing Science Communication 881

Maja Horst, Sarah R. Davies, and Alan Irwin

V Engaging with Societal Challenges 909

Clark A. Miller

31 Aging: The Sociomaterial Constitution of Later Life 915

Kelly Joyce, Alexander Peine, Louis Neven, and Florian Kohlbacher

32 Agricultural Systems: Co-producing Knowledge and Food 943

Alastair Iles, Garrett Graddy-Lovelace, Maywa Montenegro, and Ryan Galt

33 Knowledge and Security 973

Kathleen M. Vogel, Brian Balmer, Sam Weiss Evans, Inga Kroener, Miwao Matsumoto, and Brian Rappert

| | | |
|---|-------------|---|
| 34 Researching Disaster from an STS Perspective | 1003 | <i>Edited by Scott Gabriel Knowles, Vivian Choi, Paul Jobin, Miwao Matsumoto, Pedro de la Torre III, Max Liboiron, and Luis Felipe R. Murillo</i> |
| 35 Environmental Justice: Knowledge, Technology, and Expertise | 1029 | <i>Edited by Gwen Ottinger, Javiera Barandiarán, and Aya H. Kimura</i> |
| 36 The Making of Global Environmental Science and Politics | 1059 | <i>Edited by Silke Beck, Tim Forsyth, Pia M. Kohler, Myanna Lahsen, and Martin Mahony</i> |
| Contributors | 1087 | |
| Name Index | 1111 | |
| Subject Index | 1151 | |