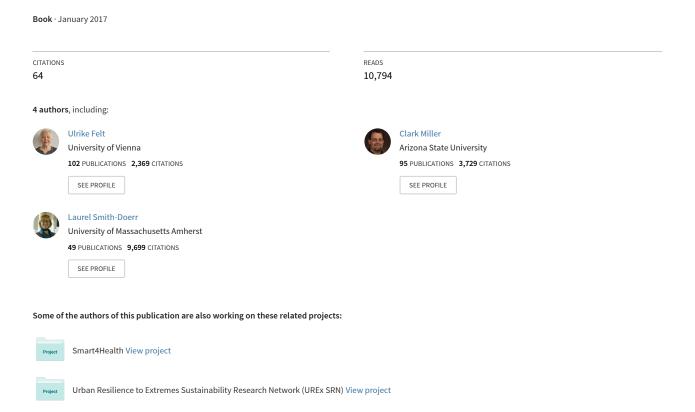
The Handbook of Science and Technology Studies, Fourth Edition



Ulrike Felt, Rayvon Fouché, Clark A. Miller, Laurel Smith-Doerr. eds. (2017) The handbook of science and technology studies / edited by Cambridge MA: MIT Press.

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

vi Contents

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





Contents

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 Huising 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



viii Contents

34 Researching Disaster from an STS Perspective 1003

Kim Fortun, Scott Gabriel Knowles, Vivian Choi, Paul Jobin, Miwao Matsumoto, Pedro de la Torre III, Max Liboiron, and Luis Felipe R. Murillo

- 35 Environmental Justice: Knowledge, Technology, and Expertise 1029 Gwen Ottinger, Javiera Barandiarán, and Aya H. Kimura
- 36 The Making of Global Environmental Science and Politics 1059Silke Beck, Tim Forsyth, Pia M. Kohler, Myanna Lahsen, and Martin Mahony

Contributors 1087 Name Index 1111 Subject Index 1151



