

Contents

Preface vii

Michael Lynch and Steve Woolgar

1 Introduction: Representation in Scientific Practice Revisited 1

Catelijne Coopmans, Janet Vertesi, Michael Lynch, and Steve Woolgar

Chapters

2 *Drawing as*: Distinctions and Disambiguation in Digital Images of Mars 15

Janet Vertesi

3 Visual Analytics as Artful Revelation 37

Catelijne Coopmans

4 Digital Scientific Visuals as Fields for Interaction 61

Morana Alač

5 Swimming in the Joint 89

Rachel Prentice

6 Chalk: Materials and Concepts in Mathematics Research 107

Michael J. Barany and Donald MacKenzie

7 Networked Neuroscience: Brain Scans and Visual Knowing at the Intersection of Atlases and Databases 131

Sarah de Rijcke and Anne Beaulieu

8 Rendering Machinic Life 153

Natasha Myers

9 Nanoimages as Hybrid Monsters 177

Martin Ruivenkamp and Arie Rip

10 Toward a New Ontology of Scientific Vision 201

Annamaria Carusi and Aud Sissel Hoel

11 Essential Tensions and Representational Strategies	223
Cyrus C. M. Mody	
12 In Images We Trust? Representation and Objectivity in the Digital Age	249
Emma K. Frow	
13 Legitimizing Napkin Drawing: The Curious Dispersion of Laffer Curves, 1978–2008	269
Yann Giraud	
14 How (Not) to Do Things with Brain Images	291
Joseph Dumit	
Reflections	
15 Preface	317
Steve Woolgar	
16 Beyond Representation	319
Lorraine Daston	
17 Representation in Formation	323
Michael Lynch	
18 Struggles with Representation: Could It Be Otherwise?	329
Steve Woolgar	
19 Reconfiguring Practices	333
Lucy Suchman	
20 Indistinct Perception	337
John Law	
21 A Question of Trust: Old Issues and New Technologies	343
Martin Kemp	
22 The More Manipulations, the Better	347
Bruno Latour	
Contributors	351
Index	357