

## CONTENTS

*List of Figures* vii

*Editors' Acknowledgments* xi

*Contributors* xiii

### 1. Dimensions of Modelling

NICK HOPWOOD AND

SORAYA DE CHADAREVIAN I

#### PART ONE

### Modelling and Enlightenment

### 2. Representing Invention, Viewing Models

MALCOLM BAKER 19

### 3. Plastic Anatomies and Artificial Dissections

RENATO G. MAZZOLINI 43

### 4. Fish and Ships: Models in the Age of Reason

SIMON SCHAFER 71

#### PART TWO

### Disciplines and Display

### 5. Modelling Monuments and Excavations

CHRISTOPHER EVANS 109

### 6. Monsters at the Crystal Palace

JAMES A. SECORD 138

### 7. Plastic Publishing in Embryology

NICK HOPWOOD 170

8. Casting Skin: Meanings for Doctors, Artists, and Patients  
THOMAS SCHNALKE 207
9. Molecules and Croquet Balls  
CHRISTOPH MEINEL 242
10. Mathematical Models  
HERBERT MEHRTENS 276
11. Science, Art, and Authenticity in Natural History Displays  
LYNN K. NYHART 307
- PART THREE  
New Media and Old
12. Models and the Making of Molecular Biology  
SORAYA DE CHADAREVIAN 339
13. Secrets Hidden by Two-Dimensionality: The Economy as a Hydraulic Machine  
MARY S. MORGAN AND MARCEL BOUMANS 369
14. From Model Kits to Interactive Computer Graphics  
ERIC FRANCOEUR AND JÉRÔME SEGAL 402
- Commentaries
15. Three-Dimensional Models in Philosophical Perspective  
JAMES GRIESEMER 433
16. Material Models as Visual Culture  
LUDMILLA JORDANOVA 443
- Index* 453