

Notes on Authors
List of Illustrations

Introduction, Claus Zittel

Part I. Beginnings

1. "Industrious Observations, Grounded Conclusions, and Profitable Inventions and Discoveries; the Best State of That Province": Technology and Culture during Francis Bacon's Stay in France, Luisa Dolza
2. Francis Bacon's *Scientia Operativa*, The Tradition of the Workshops, and The Secrets of Nature, Jürgen Klein
3. Technical Knowledge and the Advancement of Learning: Some Questions about 'Perfectibility' and 'Invention', Romano Nanni
4. The Weather-Glass and its Observers in the Early Seventeenth Century, Arianna Borrelli

Part II. Bacon: Mechanics, Instruments and Utopias

5. The Role of Mechanics in Francis Bacon's 'Great Instauration', Sophie Weeks
6. Bacon's Brotherhood and its Classical Sources: Producing and Communicating Knowledge in the Project of Great Instauration, Dana Jalobeanu
7. The Whale under the Microscope: Technology and Objectivity in Two Renaissance Utopias, Todd Andrew Borlik

Part III. Metaphoric Models

8. The Role of Metaphors in William Harvey's Thought, Jarmo Pulkkinen
9. Legitimizing the Machine: The Epistemological Foundation of Technological Metaphor in the Natural Philosophy of René Descartes, Andrés Vaccari
10. Descartes as Bricoleur, Claus Zittel

Part IV. Bacon's Legacy: The Impact for the Arts and Sciences

11. The Poet and the Philosopher: Francis Bacon and Georg Philipp Harsdörffer, Berthold Heinecke
12. Formal Causes and Mechanical Causes: The Analogy of the Musical Instrument in Late Seventeenth-Century Natural Philosophy, Benjamin Wardhaugh
13. The Modern Wonder and its Enemies: Courtly Innovations in the Spanish Renaissance, Daniel Damler
14. The Gap between Theory and Practice: Hydrodynamical and Hydraulical Utopias in the 18th Century, Moritz Epple
15. Sentimental Hydraulics: Utopia and Technology in 18th-Century France, Thomas Brandstetter
16. History Redoubled: The Synthesis of Facts in Linnaean Natural History, Staffan Müller-Wille
17. Rescue Attempts: Scientific Images and the Mysteries of Power in the Era of Louis XIV, Pablo Schneider

Index Nominum