## **Table of Contents**

PETER HEERING / ROLAND WITTJE
Introduction
Objects of Understanding – Historical Perspectives on Material Artefacts
and Practices in Science Education 7
SOFIA TALAS
At the Beginnings of Experimental Physics Teaching
JIP VAN BESOUW / PIETER T. L. BECK
From Throw to Flow, and Back
Fountains for Research and Teaching in 18th-Century Leiden
Peter Heering
's Gravesande's Hydrostatic Balance(s)
Performative Aspects in a Demonstration Device
STEPHEN JOHNSTON
Object Lessons from the Asylum
The Portable Museum of Thomas E. Dexter
KRISTIN HALVERSON
Instructing Instruments
Teaching Ophthalmoscopes, Laryngoscopes, Rhinoscopes, and Endoscopes
in Swedish and Danish Medical Journals, 1850–1865
JEAN DAVOIGNEAU / DELPHINE ISSENMANN / LOÏC JEANSON
Two Meridian Rooms
Teaching and Research at the Strasbourg Astronomical Observatory

JÖRG ZAUN / KIRSTEN VINCENZ
The Object Tableau as a Didactic Form of Knowledge Representation
MARÍA GABRIELA MAYONI
Artifacts and Pedagogical Practices for Natural History Teaching in Argentinian
Secondary Education in the Late 19 <sup>th</sup> Century
PANAGIOTIS LAZOS
Demonstrating the Vibrations of an Incandescent Wire
The Journey of Argyropoulos Apparatus from Athens to Western Europe
JAMILLA NOTEBAARD / DULCE DA ROCHA GONÇALVES
Academic and Public Lantern Lectures in the Netherlands through the Lens
of the Educational Dispositif (ca. 1900s–1920s)
RICHARD L. KREMER
Introducing Electronic Apparatus into Physics Teaching in the 1920–1930s 217
DAVID P. D. MUNNS
The Atom Goes to College
Nuclear Engineering, Teaching Reactors, and the Atomic Age 243
ROLAND WITTJE
Training Engineers in India
German Instruments, Methods, and Transcultural Insights at IIT Madras 257
ROSANNA EVANS
A Culture of Creativity
Handmaking School Science Equipment in England in the Second Half
of the Twentieth Century 277
JOCHEN LANGE
Designing Objects of Understanding
The Practice of Manufacturing School Artefacts in the Educational Tool Industry
of the 21st Century