

Instruments and the Imagination

*THOMAS L. HANKINS AND
ROBERT J. SILVERMAN*

PRINCETON UNIVERSITY PRESS

PRINCETON, NEW JERSEY

C O N T E N T S

<i>LIST OF ILLUSTRATIONS</i>	ix
<i>ACKNOWLEDGMENTS</i>	xiii
CHAPTER ONE Instruments and Images: Subjects for the Historiography of Science	3
CHAPTER TWO Athanasius Kircher's Sunflower Clock	14
CHAPTER THREE The Magic Lantern and the Art of Demonstration	37
CHAPTER FOUR The Ocular Harpsichord of Louis-Bertrand Castel; or, The Instrument That Wasn't	72
CHAPTER FIVE The Aeolian Harp and the Romantic Quest of Nature	86
CHAPTER SIX Science since Babel: Graphs, Automatic Recording Devices, and the Universal Language of Instruments	113
CHAPTER SEVEN The Giant Eyes of Science: The Stereoscope and Photographic Depiction in the Nineteenth Century	148
CHAPTER EIGHT <i>Vox Mechanica</i> : The History of Speaking Machines	178
CHAPTER NINE Conclusion	221
<i>NOTES</i>	233
<i>BIBLIOGRAPHY</i>	287
<i>INDEX</i>	325