Technical Knowledge in Early Modern Japan

edited by Erich Pauer and Russelle Meade

DESCRIPTION:
Drawing on the papers presented at CEEJA’s* first international conference addressing the long-neglected field relating to the generation, dissemination and application of technical knowledge in Japan from the Edo to the Meiji periods, this volume provides a valuable selection of new research on the subject, from Hashimoto Takehiko’s detailed examination of Tanaka Hisashige’s ‘Myriad Year Clock’, Regine Mathias’s paper on mining and smelting, and Erich Pauer’s overview of Japanese technical books in the pre-modern era, to Suzuki Jun’s detailed account of boiler-making in late nineteenth-century Japan.

* Centre Européen d’Études Japonaises d’Alsace, 2017

TABLE OF CONTENTS:
Acknowledgements
Introduction: Remarks on the History of Technology in Japan
Erich PAUER
1. Production Techniques in Early Modern Japan as seen through ‘Famous Products of Japan from Mountain and Sea, Illustrated’ (Nippon sankai meisan zue, 1799)
Annick HORIUCHI
2. Vehicles of Knowledge: Japanese Technical Drawings in the Pre-modern Era, 1600-1868
Erich PAUER
3. Dissemination of Knowledge and Technology: The Extensive Range of Exhibitions in Japan in the Eighteenth and Nineteenth Centuries
ITO Mamiko
4. Knowledge on Mining and Smelting and Its Dissemination in the Edo Period
Regine MATHIAS
5. Tanaka Hisashige and His Myriad Year Clock: Its Technological Characteristics and Historical Background
HASHIMOTO Takehiko
6. A Statistical Analysis of To-kyo- Meiko- Kagami (with a Focus on Highly Skilled Metalwork Craftsmen)
NISHIYAMA Takahiro
7. Boiler Manufacture in Late-nineteenth Century Japan: From First Beginnings to Nationwide Expansion
SUZUKI Jun (Translated by Nicholas Pertwee)
Appendix: Selected Sources on the Japanese History of Technology (especially on series)
Erich PAUER
List of Contributors
Index