Record Nr. UNINA9910463637403321 **Titolo** Standardization in measurement: philosophical, historical and sociological issues / / edited by Oliver Schlaudt and Lara Huber Pubbl/distr/stampa London, [England];; Brookfield, Vermont:,: Pickering & Chatto (Publishers) Limited, , 2015 ©2015 **ISBN** 1-317-31669-X 1-78144-803-5 Descrizione fisica 1 online resource (271 p.) History and Philosophy of Technoscience;; Number 7 Collana Disciplina 620.0044 Soggetti Measurement - Data processing

Measurement - Standards
Electronic books.

Inalese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Includes index.

Lingua di pubblicazione

Nota di contenuto

Contents; List of Contributors; List of Figure and Tables; Introduction Lara Huber and Oliver Schlaudt; 1 'A Branch of Human Natural History':

Wittgenstein's Reflections on Metrology - Martin Kusch; 2 Metrology and Varieties of Making in Synthetic Biology - Pablo Schyfter; 3 Refrain from Standards? French, Cavemen and Computers: A (Short) Story of Multidimensional Analysis in French Prehistoric Archaeology - Sebastien Plutniak; 4 The Double Interpretation of the Equations of Physics and the Quest for Common Meanings - Nadine de Courtenay 5 An Overview of the Current Status of Measurement Science: From the Standpoint of the International Vocabulary of Metrology (VIM) - Luca Mari6 Can We Dispense with the Notion of 'True Value' in Metrology? - Fabien Gregis; 7 Calibration in Scientific Practices which Explore Poorly Understood Phenomena or Invent New Instruments - Lena Soler; 8 Time Standards from Acoustic to Radio: The First Electronic Clock - Shaul Katzir; 9 Calibrating the Universe: The Beginning and End of the Hubble Wars - Genco Guralp

10 Measuring Animal Performance: A Sociological Analysis of the Social Construction of Measurement - Francois Hochereau11 The Measure of Democracy: Coding in Political Science - Sharon Crasnow; 12 Measuring

Metabolism - Elizabeth Neswald; 13 The Social Construction of Units of Measurement: Institutionalization, Legitimation and Maintenance in Metrology - Hector Vera; 14 A Matter of Size Does Not Matter: Material and Institutional Agencies in Nanotechnology Standardization - Sharon Ku and Frederick Klaessig

15 Measuring by which Standard? How Plurality Challenges the Ideal of Epistemic Singularity - Lara HuberNotes; Index

## Sommario/riassunto

The application of standard measurement is a cornerstone of modern science. In this collection of essays, standardization of procedure, units of measurement and the epistemology of standardization are addressed by specialists from sociology, history and the philosophy of science.