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Nota di contenuto	Part I: Transmission -- Chapter 1. Visual Culture Of University Knowledge: The Lecture Notebooks From Louvain And Douai (17th-18th Centuries)(Gwendoline De Mûelenaere - University Of Louvain, Belgium) -- Chapter 2. The Illustrated Printed Page As A Tool For Thinking And Transmitting Knowledge. The Case Of Renaissance Astronomical Books(Isabelle Pantin) -- Chapter 3. Representing Experience In The Early Royal Society. The Case Of Robert Hooke?S Micrographia (1665)(Salvatore Ricciardo - University Of Bergamo, Italy) -- Chapter 4. Vision On Vision: Early Modern Scientific Images On Cosmology Explored By Means Of Second Order Images(Matteo Valleriani, Florian Kräutli) -- Part II: Transformation -- Chapter 5. Theorizing Technology: Theria, Diagram, And Artifact In Hero Of Alexandria(Courtney Roby) -- Chapter 6. Artistic 'Libido' And Scientific Truth In 16th Century Woodcut Illustrations(Magdalena Bushart) -- Chapter 7. Capturing, Modeling, Overviewing And Making Credible: The Functions Of Visual At The Accademia Del Cimento(Giulia Giannini) -- Chapter 8. The Transformations Of Physico-Mathematical Visual

Thinking: From Descartes To Quantum Physics(Enrico Giannetto) -- Part III: Exploration -- Chapter 9. Transporting Asian And Australasian Nature To Europe: Photographs From The Voyage Of HMS. Challenger 1872–1876(Stephanie Hood) -- Chapter 10. Visualising Biodata In The Laboratory. Image-Makers, Practices And Reinvention In Magnetic Resonance Technology(Silvia Casini) -- Chapter 11. Arguing From Appearance: The Numerical Reconstruction Of Galactic Tails And Bridges(Matthias Schemmel) -- Chapter 12. Ethnoscience And Spatial Representations Of Climate Change(Elena Bougleux).

Sommario/riassunto

This book explores continuity and ruptures in the historical use of visual representations in science and related disciplines such as art history and anthropology. The book also considers more recent developments that attest to the unprecedented importance of scientific visualizations, such as video recordings, animations, simulations, graphs, and enhanced realities. The volume collects historical reflections concerned with the use of visual material, visualization, and vision in science from a historical perspective, ranging across multiple cultures from antiquity until present day. The focus is on visual representations such as drawings, prints, tables, mathematical symbols, photos, data visualizations, mapping processes, and (on a meta-level) visualizations of data extracted from historical sources to visually support the historical research itself. Continuity and ruptures between the past and present use of visual material are presented against the backdrop of the epistemic functions of visual material in science. The function of visual material is defined according to three major epistemic categories: exploration, transformation, and transmission of knowledge.
