

1. Record Nr.	UNINA9910254614103321
Autore	Kuehn Kerry
Titolo	A Student's Guide Through the Great Physics Texts : Volume IV: Heat, Atoms and Quanta // by Kerry Kuehn
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-21828-X
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XXVI, 463 p. 70 illus.)
Collana	Undergraduate Lecture Notes in Physics, , 2192-4791
Disciplina	530
Soggetti	Physics Philosophy and science Science - Study and teaching Cosmology History and Philosophical Foundations of Physics Philosophy of Science Science Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	A New Science of Heat -- Heat, Symmetry and Mathematics -- Steam Engines and Heat Flow -- Carnot's Cycle -- Engines are Thermometers -- Temperature, Pressure and Reversibility -- The Language of Science -- Energy and Entropy -- Conduction of Heat -- On Radiation -- Atomism and Kinetic Theory -- Atomism and Kinetic Theory 2 -- Dynamical and Statistical Laws -- The Discovery of the Electron -- The Mass and Velocity of a-particles -- Identifying the a Particle -- Targeting the Nucleus -- Nuclear Structure -- The Discovery of the Neutron -- The Nature of the Neutron -- Corpuscles of Light -- X-Ray Optics 1 -- X-Ray Optics 2 -- Electron diffraction 1 -- Electron diffraction 2 -- The Bohr model of the atom -- Atomic spectra -- The periodic table -- The Birth of the Quantum -- Matter Waves -- Quantum Orthodoxy -- Causality and Chance in Quantum Theory -- Indeterminacy -- Bohm's critique of Copenhagen.
Sommario/riassunto	This book provides a chronological introduction to modern atomic theory, which represented an attempt to reconcile the ancient doctrine

of atomism with careful experiments—performed during the 19th century—on the flow of heat through substances and across empty space. Included herein are selections from classic texts such as Carnot's Reflection on the Motive Power of Fire, Clausius' Mechanical Theory of Heat, Rutherford's Nuclear Constitution of Atoms, Planck's Atomic Theory of Matter, and Heisenberg's Copenhagen Interpretation of Quantum Theory. Each chapter begins with a short introduction followed by a reading selection. Carefully crafted study questions draw out key points in the text and focus the reader's attention on the author's methods, analysis and conclusions. Numerical and laboratory exercises at the end of each chapter test the reader's ability to understand and apply key concepts from the text. Heat, Radiation and Quanta is the last of four volumes in A Student's Guide through the Great Physics Texts. The book comes from a four-semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics. This book is particularly suitable as a college-level textbook for students of the natural sciences, history or philosophy. It might also serve as a textbook for advanced high-school or home-schooled students, or as a thematically-organized source-book for scholars and motivated lay-readers. In studying the classic scientific texts included herein, the reader will be drawn toward a lifetime of contemplation.

2. Record Nr.	UNINA990004080970403321
Autore	Bremer, Jan Maarten <1932- >
Titolo	Some recently found Greek poems : text and commentary / by J.M. Bremer, A. Maria van Erp Taalman Kip, S.R. Slings
Pubbl/distr/stampa	Leiden, : E.J. Brill, 1987 New York
ISBN	90-04-08319-7
Descrizione fisica	VIII, 177 p. ; 24 cm
Collana	Mnemosyne. Supplementum ; 99
Altri autori (Persone)	Erp Taalman kip, Anna Maria Slings, S. R.
Disciplina	881.01
Locazione	FLFBC
Collocazione	P2F MNS 99 P2F MNS 99 BIS
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia