Record Nr. UNINA9910163543303321 Autore M. Mamone Capria (ed.) Titolo Physics before and after Einstein [[electronic resource] /] / edited by Marco Mamone Capria Amsterdam,: IOS Press, 2005 Pubbl/distr/stampa **ISBN** 1-280-50474-9 9786610504749 1-4294-0238-5 1-60750-106-6 600-00-0520-2 1-60129-087-X Edizione [1st ed.] Descrizione fisica 1 online resource (336 p.) Altri autori (Persone) Mamone CapriaMarco 530 Disciplina Soggetti **Physics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographic references. Nota di contenuto Title page; Preface; Contents; Albert Einstein: A Portrait; Mechanics and Electromagnetism in the Late Nineteenth Century: The Dynamics of Maxwell's Ether; Mechanistic Science, Thermodynamics, and Industry at the End of the Nineteenth Century; The Origins and Concepts of Special Relativity; General Relativity: Gravitation as Geometry and the Machian Programme; The Rebirth of Cosmology: From the Static to the Expanding Universe; Testing Relativity; Einstein and Quantum Theory; The Quantum Debate: From Einstein to Bell and Beyond Special Relativity and the Development of High-Energy Particle Physics Quantum Theory and Gravitation; Super luminal Waves and Objects: Theory and Experiments. A Panoramic Introduction; Standard Cosmology and Other Possible Universes Sommario/riassunto It is now a century ago that one of the icons of modern physics published some of the most influential scientific papers of all times. With his work on relativity and quantum theory, Albert Einstein has altered the field of physics forever. It should not come as a surprise that looking back at Einstein's work, one needs to rethink the whole

scope of physics, before and after his time. This books aims to provide

a perspective on the history of modern physics, spanning from the late 19th century up to today. It is not an encyclopedic work, but it presents the groundbreaking and sometimes