

1. Record Nr.	UNINA9910781099103321
Titolo	Reviews of accelerator science and technology . Volume 1 [[electronic resource] /] / editors Alexander W. Chao, Weiren Chou
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2008
ISBN	1-282-44087-X 9786612440878 981-283-521-0
Descrizione fisica	1 online resource (338 p.)
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Disciplina	579.7
Soggetti	Particle accelerators Colliders (Nuclear physics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Editorial Preface; Contents; A Brief History of Particle Accelerators (poster); Early Milestones in the Evolution of Accelerators E. D. Courant; Electron Linacs for High Energy Physics Perry B. Wilson; The Development of High Power Hadron Accelerators G. H. Rees; Cyclotrons and Fixed-Field Alternating-Gradient Accelerators M. K. Craddock and K. R. Symon; Particle Colliders for High Energy Physics D. A. Edwards and H. T. Edwards; Synchrotron Radiation A. Hofmann; Medical Applications of Accelerators Hartmut Eickhoff and Ute Linz; Industrial Accelerators Robert W. Hamm The Development of Superconducting Magnets for Use in Particle Accelerators: From the Tevatron to the LHC Alvin Tollestrup and Ezio TodescoDevelopment of Superconducting RF Technology Takaaki Furuya; Cooling Methods for Charged Particle Beams V. V. Parkhomchuk and A. N. Skrinsky; The Supercollider: The Pre-Texas Days - A Personal Recollection of Its Birth and Berkeley Years Stanley Wojcicki; Accelerators and the Accelerator Community Andrew Sessler and Ernest Malamud; Book Review: Panofsky on Physics, Politics, and Peace: Pief Remembers Gregory Loew
Sommario/riassunto	Particle accelerators are a major invention of the 20th century. In the

last eight decades, they have evolved enormously and have fundamentally changed the way we live, think and work. Accelerators are the most powerful microscopes for viewing the tiniest inner structure of cells, genes, molecules, atoms and their constituents such as protons, neutrons, electrons, neutrinos and quarks. This opens up a whole new world for materials science, chemistry and molecular biology. Accelerators with megawatt beam power may ultimately solve a critical problem faced by our society, namely, the treatment of

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