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Titolo	Current topics in atomic, molecular and optical physics [[electronic resource] ] : invited lectures delivered at the Conference on Atomic Molecular and Optical Physics (TC 2005), 13th-15th December, 2005, Indian Association for the Cultivation of Science, Kolkata, India // edited by Chandana Sinha, Shibshankar Bhattacharyya
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Descrizione fisica	1 online resource (284p.)
Altri autori (Persone)	SinhaChandana BhattacharyyaShib Shankar <1950->
Disciplina	539.7
Soggetti	Nuclear physics Atoms Molecules Physical optics Electronic books.
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Ultrafast Dynamics of Nano and Mesoscopic Systems Driven by Asymmetric Electromagnetic Pulses (A Matos-Abiague et al.); Experimenting with Topological States of Bose-Einstein Condensates (C Raman); Pair-Correlation in Bose-Einstein Condensate and Fermi Superfluid of Atomic Gases (B Deb); A Feynman-Kac Path Integral Study of Rb Gas (S Dutta); Quantum Information Transfer in Atom-Photon Interactions in a Cavity (A S Majumder et al.); MRCPA: Theory and Application to Highly Correlating System (K Tanaka); Estimation of Ion Kinetic Energies from Time-of-Flight and Momentum Spectra (B Bapat); Study of Atom-Surface Interaction Using Magnetic Atom Mirror (A K Mohapatra); and other papers.
Sommario/riassunto	Focuses on research in crucial areas such as: cold atoms and Bose-Einstein condensates, quantum information and quantum computation,

and techniques for investigating collisions and structure. This work covers topics that includes the multireference coupled cluster method in quantum chemistry and the role of electronic correlation in nanosystems.

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