

1. Record Nr.	UNISALENTO991002872199707536
Autore	International congress of prehistoric and protohistoric sciences <13. ; 1996 ; Forlì>
Titolo	Theoretical and methodological problems / edited by Amilcare Bietti ... [et al.]
Pubbl/distr/stampa	Forlì : ABACO, [1996]
ISBN	8886712049
Descrizione fisica	240 p. : ill. ; 24 cm
Collana	The colloquia of the 13. International congress of prehistoric and protohistoric sciences ; 1
Altri autori (Persone)	Bietti, Amilcare
Altri autori (Enti)	Unione internazionale delle scienze preistoriche e protostoriche
Disciplina	930.1
Soggetti	Archeologia
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Contiene: Colloquium 1.: The debate on function and meaning in prehistoric archaeology: processual versus post processual archaeology in the 90s; Colloquium 2.: The present state of G.I.S. applications and analogous systems in prehistoric archaeology In testa al front.: International union of prehistoric and prohistoric sciences

2. Record Nr.	UNINA9911006560403321
Autore	Shore Bruce W.
Titolo	Manipulating quantum structures using laser pulses / / Bruce W. Shore
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-22477-2 1-283-34237-5 1-139-16028-1 9786613342379 1-139-15467-2 1-139-16128-8 1-139-15571-7 1-139-15923-2 1-139-15746-9 0-511-67571-2
Descrizione fisica	1 online resource (xiii, 572 pages) : digital, PDF file(s)
Classificazione	SCI053000
Disciplina	539.7/56
Soggetti	Nuclear excitation Atomic structure Coherent states Perturbation (Quantum dynamics) Laser interferometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction -- 2. Atoms as structured particles -- 3. Radiation -- 4. The laser-atom interaction -- 5. Picturing quantum structure and changes -- 6. Incoherence: rate equations -- 7. Coherence: the Schrodinger equation -- 8. Two-state coherent excitation -- 9. Weak pulse: perturbation theory -- 10. The vector model -- 11. Sequential pulses -- 12. Degeneracy -- 13. Three states -- 14. Raman processes -- 15. Multilevel excitation -- 16. Averages and the statistical matrix (density matrix) -- 17. Preparing superpositions -- 18. Measuring superpositions -- 19. Overall phase, interferometry and cyclic dynamics -- 20. Atoms affecting fields -- 21. Atoms in cavities -- 22.

The use of laser pulses to alter the internal quantum structure of individual atoms and molecules has applications in quantum information processing, the coherent control of chemical reactions and in quantum-state engineering. This book presents the underlying theory of such quantum-state manipulation for researchers and graduate students. The book provides the equations, and approaches for their solution, which can be applied to complicated multilevel quantum systems. It also gives the background theory for application to isolated atoms or trapped ions, simple molecules and atoms embedded in solids. Particular attention is given to the ways in which quantum changes can be displayed graphically to help readers understand how quantum changes can be controlled.