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| 1. Record Nr. | UNISALENTO991001674609707536 |
| Autore | Pflaum, Hans Georg |
| Titolo | Abrege des procurateurs equestres : d'apres l'article paru en allemand dans l'Encyclopedie classique (Pauly-Wissowa) / H.-G. Pflaum ; adaptation francaise de Serge Ducroux ; sous la direction de Noel Duval |
| Pubbl/distr/stampa | Paris : De_Boccard, 1974 |
| Descrizione fisica | x, 68 p. ; 24 cm. |
| Classificazione | R-III/D |
| Altri autori (Persone) | Ducroux, Serge |
| Lingua di pubblicazione | Francese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| 2. Record Nr. | UNINA9910959737403321 |
| Autore | Joachain C. J (Charles Jean) |
| Titolo | Atoms in intense laser fields // C.J. Joachain, N.J. Kylstra, and R.M. Potvliege |
| Pubbl/distr/stampa | Cambridge : , : Cambridge University Press, , 2011 |
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| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (xii, 568 pages) : digital, PDF file(s) |
| Classificazione | SCI074000 |
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| Soggetti | Electron-atom collisions
Floquet theory
Laser pulses, Ultrashort
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Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I. Basic Concepts: 1. High-intensity laser-atom physics; 2. Theory of laser-atom interactions -- Part II. Theoretical Methods: 3. Perturbation theory; 4. Floquet theory; 5. Numerical integration of the wave equations; 6. The low-frequency regime; 7. The high-frequency regime -- Part III. Multiphoton Atomic Physics: 8. Multiphoton ionization; 9. Harmonic generation and attosecond pulses; 10. Laser-assisted electron-atom collisions.
Sommario/riassunto	The development of lasers capable of producing high-intensity pulses has opened a new area in the study of light-matter interactions. The corresponding laser fields are strong enough to compete with the Coulomb forces in controlling the dynamics of atomic systems and give rise to multiphoton processes. This book presents a unified account of this rapidly developing field of physics. The first part describes the fundamental phenomena occurring in intense laser-atom interactions and gives the basic theoretical framework to analyze them. The second part contains a detailed discussion of Floquet theory, the numerical integration of the wave equations and approximation methods for the low- and high-frequency regimes. In the third part, the main multiphoton processes are discussed: multiphoton ionization, high harmonic and attosecond pulse generation, and laser-assisted electron-atom collisions. Aimed at graduate students in atomic, molecular and optical physics, the book will also interest researchers working on laser interactions with matter.