1. Record Nr. UNINA9910739448203321

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Titolo	Interaction of Ultrashort Electromagnetic Pulses with Matter / / by Valeriy Astapenko
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-35969-8
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (94 p.)
Collana	SpringerBriefs in Physics, , 2191-5423
Disciplina	537.6 537.6/226 537.6226
Soggetti	Atoms Physics Lasers Photonics Optics Electrodynamics Atoms and Molecules in Strong Fields, Laser Matter Interaction Optics, Lasers, Photonics, Optical Devices Classical Electrodynamics
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	Oscillator in an Electromagnetic field -- Interaction of Ultrashort Electromagnetic Pulses with a Substance: Description in the Framework of Perturbation Theory -- Two-Level System in the Field of Ultrashort Electromagnetic Pulses.
Sommario/riassunto	The book is devoted to the theory describing the interaction of ultra-short electromagnetic pulses (USP) with matter, including both classical and quantum cases. This theme is a hot topic in modern physics because of the great achievements in generating USP. Special attention is given to the peculiarities of UPS-matter interaction. One of the important items of this book is the derivation and applications of a new formula which describes the total photo-process probability under the

action of USP in the framework of perturbation theory. Strong field-matter interaction is also considered with the use of the Bloch formalism in a two-level approximation for UPS with variable characteristics. .