



Interaction of Ultrashort Electromagnetic Pulses with Matter

By Valeriy Astapenko

Springer-Verlag GmbH Mrz 2013, 2013. Taschenbuch. Condition: Neu. Neuware - 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. 94 pp. Englisch.

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