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“Femtosecond Laser-Matter Interactions: Theory, Experiments, and Applications” is just such a text. Written at the level of an advanced undergraduate or graduate student, the author first

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(PDF) Femtosecond laser-matter interaction: Theory ...

laser-matter interaction studies. This book is devoted mainly to the theoretical analysis of laser-matter interaction and instability phenomena. This analysis is based primarily on the results of studies carried out by Russian physicists during the

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The femtosecond laser-matter interaction has already found numerous applications in industry, medicine, and materials science. However, there is no consensus on the interpretation of related phenomena.

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Femtosecond laser-matter interaction: Theory, experiments and applications. January 2011. E. G. Gamaly; This is the first comprehensive treatment of the interaction of femtosecond laser pulses ...

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1. Intense Laser- Matter Interaction: Some Basics [mainly for ultrashort (femtosecond) pulses] 2. High energy density science (HEDS) experiments with table top terawatt lasers: the why and how 3. Physics issues and challenges in HEDS with table top lasers: some examples

Intense Laser- Matter Interaction: Some Basics

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Femtosecond Laser Matter Interaction Theory

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In femtosecond-laser-matter interaction, ... (17) W cm⁻² and when the Debye theory is valid, that is to say, when the Landau length is distinctly less than the minimum ion distance, and when the Debye screening is unaffected by the electron quiver motion in the laser field.

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