



Short Pulse Laser Interactions with Matter: An Introduction

By Paul Gibbon

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This book represents the first comprehensive treatment of the subject, covering the theoretical principles, present experimental status and important applications of short-pulse laser-matter interactions. Femtosecond lasers have undergone dramatic technological advances over the last fifteen years, generating a whole host of new research activities under the theme of “ultrafast science”. The focused light from these devices is so intense that ordinary matter is torn apart within a few laser cycles. This book takes a close-up look at the exotic physical phenomena which arise as a result of this new form of “light-matter” interaction, covering a diverse set of topics including multiphoton ionization, rapid heatwaves, fast particle generation and relativistic self-channeling. These processes are central to a number of exciting new applications in other fields, such as microholography, optical particle accelerators and photonuclear physics.

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Short Pulse Laser Interactions with Matter: An Introduction By Paul Gibbon Bibliography

- Sales Rank: #2423076 in Books
- Published on: 2005-09-30
- Original language: English
- Number of items: 1
- Dimensions: 9.24" h x .90" w x 6.88" l, 1.34 pounds
- Binding: Hardcover
- 328 pages



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