



Ultrashort Laser Pulse Phenomena, Second Edition (Optics and Photonics Series)

Jean-Claude Diels, Wolfgang Rudolph

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Ultrashort Laser Pulse Phenomena, Second Edition (Optics and Photonics Series) Jean-Claude Diels, Wolfgang Rudolph

Ultrashort Laser Pulse Phenomena, 2e serves as an introduction to the phenomena of ultra short laser pulses and describes how this technology can be used to examine problems in areas such as electromagnetism, optics, and quantum mechanics. Ultrashort Laser Pulse Phenomena combines theoretical backgrounds and experimental techniques and will serve as a manual on designing and constructing femtosecond ("faster than electronics") systems or experiments from scratch. Beyond the simple optical system, the various sources of ultrashort pulses are presented, again with emphasis on the basic concepts and how they apply to the design of particular sources (dye lasers, solid state lasers, semiconductor lasers, fiber lasers, and sources based on frequency conversion).

*Provides an easy to follow guide through "faster than electronics" probing and detection methods

*THE manual on designing and constructing femtosecond systems and experiments

*Discusses essential technology for applications in micro-machining, femtochemistry, and medical imaging

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