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Optics Of Femtosecond Laser Pulses

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Laser Pulses

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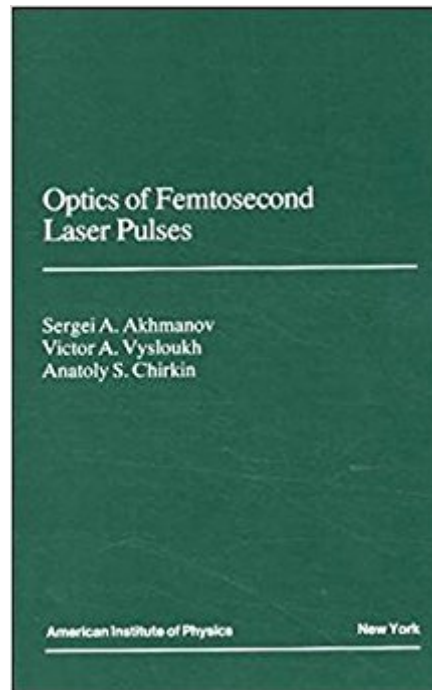
Synopsis

"Blurb & Contents" The wave optics of ultrashort pulses--an area experiencing rapid growth--is closely scrutinized in this completely up-to-date survey, which emphasizes new problems connected with the propagation of the shortest possible pulses. You'll find a presentation of the principles of the Fourier optics of short wave packets propagating in linear dispersive media. Discusses the development of femtosecond laser systems along with the feasibility of controlling pulse shape. Contents: Short Optical Pulses in Linear Dispersive Media. Self-action of Optical Pulses; Self-modulation, Self-compression, Solitons, and Instabilities. Parametric Interactions and Coherent Scattering of Femtosecond Pulses. Fast Phase Control. Compression and Shaping of Optical Pulses. Optical Solitons. Picosecond and Femtosecond Pulses in Optical Information Systems.

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Customer Reviews

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This book provides the reader with a very good review of ultrashort laser pulse phenomena. Just about every issue is covered and the book reads very well. It is very dense in that there is a lot of material contained in it. I was very captivated in reading it as it contained both what I was looking for in it as a reference and many other fascinating topics which I learned a lot from by reading. It certainly is both a good introduction to many facettes of ultrashort laser pulses and a good reference.

Optics of Femtosecond Laser Pulses Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics American National Standard for Safe Use of Lasers: ANSI Z136.1-2000 (ANSI (Laser Institute of America)) (ANSI (Laser Institute of America)) (ANSI (Laser Institute of America)) Handbook of Optics, Third Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics and Lasers Femtosecond Chemistry: A Handbook in Two Volumes Laser Moose and Rabbit Boy (Laser Moose and Rabbit Boy series, Book 1) Laser Moose and Rabbit Boy: Disco Fever (Laser Moose and Rabbit Boy series, Book IEC/TR 60825-3 Ed. 1.0 b:1995, Safety of laser products - Part 3: Guidance for laser displays and shows NEW! PICOSURE MEDICAL LASER TATTOO REMOVAL SYSTEM: FINALLY A NO B.S. GUIDE TO THE WORLD'S NEWEST/LATEST MEDICAL LASER TATTOO REMOVAL SYSTEM Regenerative Laser Pain Therapy: Low-Level-Laser-Therapy Laser Interaction and Related Plasma Phenomena (Laser Interaction & Related Plasma Phenomena) Last-Minute Optics: A Concise Review of Optics, Refraction, and Contact Lenses Handbook of Optics, Third Edition Volume I: Geometrical and Physical Optics, Polarized Light, Components and Instruments(set) Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) Handbook of Optics, Third Edition Volume III: Vision and Vision Optics(set) Molded Optics: Design and Manufacture (Series in Optics and Optoelectronics) The Art of Pulse Diagnosis: A Step-by-Step Exploration of Method, Directionality, Organ Energetics, Complement Channel Pulses, Textures, and Images The Triumph of Seeds: How Grains, Nuts, Kernels, Pulses & Pips Conquered the Plant Kingdom and Shaped Human History The Triumph of Seeds: How Grains, Nuts, Kernels, Pulses, and Pips Conquered the Plant Kingdom and Shaped Human History