



Fundamentals of Attosecond Optics (Hardback)

By Zenghu Chang

Taylor Francis Inc, United States, 2011. Hardback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Attosecond optical pulse generation, along with the related process of high-order harmonic generation, is redefining ultrafast physics and chemistry. A practical understanding of attosecond optics requires significant background information and foundational theory to make full use of these cutting-edge lasers and advance the technology toward the next generation of ultrafast lasers. Fundamentals of Attosecond Optics provides the first focused introduction to the field. The author presents the underlying concepts and techniques required to enter the field, as well as recent research advances that are driving the field forward. A stand-alone textbook for courses on attosecond optics and the interaction of matter with ultrafast, high-power lasers, the book begins with basic theory and gradually advances to more complex ideas. Using both semi-classical models and quantum mechanics theories, the author explains foundational concepts and mechanisms including femtosecond lasers, high-order harmonic generation, and the technological leap that inspired attosecond pulse generation. The book introduces techniques for generating attosecond train using the basis of high-order harmonics, followed by an...



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