

1. Record Nr.	UNINA9910818305503321
Autore	Chang Zenghu
Titolo	Fundamentals of attosecond optics // Zenghu Chang
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, , 2011
ISBN	0-429-19302-5 1-4200-8938-2
Edizione	[1st edition]
Descrizione fisica	1 online resource (547 p.)
Disciplina	621.36
Soggetti	Quantum optics Picosecond pulses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front cover; Dedication; Brief Table of Contents; Contents; Preface; Author; Chapter 1. Quest for Attosecond Optical Pulses; Chapter 2. Femtosecond Driving Lasers; Chapter 3. Stabilization of Carrier-Envelope Phase; Chapter 4. Semiclassical Model; Chapter 5. Strong Field Approximation; Chapter 6. Phase Matching; Chapter 7. Attosecond Pulse Trains; Chapter 8. Single Isolated Attosecond Pulses; Chapter 9. Applications of Attosecond Pulses; Appendix A: Solutions to Selected Problems; Back cover
Sommario/riassunto	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