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Titolo	Attosecond and XUV physics : ultrafast dynamics and spectroscopy // edited by Thomas Schultz, Marc Vrakking
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Altri autori (Persone)	VrakkingMarc SchultzThomas
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Titlepage; Copyright; Contents; List of Contributors; 1 Attosecond and XUV Physics: Ultrafast Dynamics and Spectroscopy; 1.1 Introduction; 1.2 The Emergence of Attosecond Science; 1.2.1 Attosecond Pulse Trains and Isolated Attosecond Pulses; 1.2.2 Characterization of Attosecond Laser Pulses; 1.2.3 Experimental Challenges in Attosecond Science; 1.2.4 Attosecond Science as a Driver for Technological Developments; 1.3 Applications of Attosecond Laser Pulses; 1.4 Ultrafast Science Using XUV/X-ray Free Electron Lasers; 1.5 The Interplay between Experiment and Theory 1.6 Conclusion and OutlookReferences; Part One Laser Techniques; 2 Ultrafast Laser Oscillators and Amplifiers; 2.1 Introduction; 2.2 Mode-Locking and Few-Cycle Pulse Generation; 2.3 High-Energy Oscillators; 2.4 Laser Amplifiers; References; 3 Ultrashort Pulse Characterization; 3.1 Motivation: Why Ultrafast Metrology?; 3.1.1 Ultrafast Science: High-Speed Photography in the Extreme; 3.2 Formal Description of Ultrashort Pulses; 3.2.1 Sampling Theorem; 3.2.2 Chronocyclic Representation of

Ultrafast Pulses; 3.2.3 Space-Time Coupling; 3.2.4 Accuracy, Precision and Consistency  
3.3 Linear Filter Analysis  
3.4 Ultrafast Metrology in the Visible to Infrared; 3.4.1 Temporal Correlations; 3.4.2 Spectrography; 3.4.3 Sonography; 3.4.4 Tomography; 3.4.5 Interferometry; 3.5 Ultrafast Metrology in the Extreme Ultraviolet; 3.5.1 Complete Characterization of Ultrashort XUV Pulses via Photoionization Spectroscopy; 3.5.2 XUV Interferometry; 3.6 Summary; References; 4 Carrier Envelope Phase Stabilization; 4.1 Introduction; 4.2 CEP Fundamentals; 4.2.1 Time Domain Representation; 4.2.2 Frequency Domain Representation; 4.3 Stabilization Loop Fundamentals; 4.3.1 The Noisy Source  
4.3.2 Noise Detection  
4.3.3 Open-Loop Noise Analysis; 4.3.4 Feedback; 4.3.5 Closed-Loop Noise Analysis; 4.4 CEP in Oscillators; 4.4.1 Oscillators Peculiarities; 4.4.2 CEP Detection; 4.4.3 Actuation; 4.5 CEP in Amplifiers; 4.5.1 Amplifier Peculiarities; 4.5.2 CEP Detection; 4.5.3 Actuation; 4.5.4 Feedback Results; 4.5.5 Parametric Amplification; 4.6 Conclusion; References; 5 Towards Tabletop X-Ray Lasers; 5.1 Context and Objectives; 5.2 Choice of Plasma-Based Soft X-Ray Amplifier; 5.2.1 Basic Aspects of High Harmonic Amplification; 5.2.2 Basic Aspects of Plasma Amplifiers  
5.3 2D Fluid Modeling and 3D Ray Trace  
5.3.1 ARWEN Code; 5.3.2 Model to Obtain 2D Maps of Atomic Data; 5.4 The Bloch-Maxwell Treatment; 5.5 Stretched Seed Amplification; 5.6 Conclusion; References; Part Two Theoretical Methods; 6 Ionization in Strong Low-Frequency Fields; 6.1 Preliminaries; 6.2 Speculative Thoughts; 6.3 Basic Formalism; 6.3.1 Hamiltonians and Gauges; 6.3.2 Formal Solutions; 6.4 The Strong-Field Approximation; 6.4.1 The Volkov Propagator and the Classical Connection; 6.4.2 Transition Amplitudes in the SFA; 6.5 Strong-Field Ionization: Exponential vs. Power Law  
6.5.1 The Saddle Point Approximation and the Classical Connection

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## Sommario/riassunto

This book provides fundamental knowledge in the fields of attosecond science and free electron lasers, based on the insight that the further development of both disciplines can greatly benefit from mutual exposure and interaction between the two communities. With respect to the interaction of high intensity lasers with matter, it covers ultrafast lasers, high-harmonic generation, attosecond pulse generation and characterization. Other chapters review strong-field physics, free electron lasers and experimental instrumentation. Written in an easy accessible style, the book is aimed at gra

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2. Record Nr.	UNINA9910823451003321
Autore	Mason T. David (Thomas David), <1950->
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Descrizione fisica	1 online resource (327 p.)
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Lingua di pubblicazione	Inglese
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Nota di contenuto	Title Page; Copyright Page; Contents; Preface; 1. The Puzzle of Revolution in the Third World; 2. Theories of Revolution: The Evolution of the Field; 3. Dependent Development and the Crisis of Rural Stability; 4. Mobilizing Peasant Social Movements; 5. The Response of the State: Reform or Repression?; 6. State Repression and the Escalation of Revolutionary Violence; 7. Win, Lose, or Draw: How Civil Wars End; 8. Reform, Repression, and Revolution in El Salvador; 9. Peruvian Land Reform and the Rise of Sendero Luminoso 10. The Future of Revolutions in the Countryside: Globalization, Democratization, and PeacekeepingReferences; Index; About the Author
Sommario/riassunto	Caught in the Crossfire presents a multi-faceted explanation of why people participate in something as dangerous and uncertain as a revolutionary movement.