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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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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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 Analysis3.4 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 Detection4.3.3 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 Trace5.3.1 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

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

2. Record Nr.	UNINA9910136080303321
Autore	Lewis Megan <1968->
Titolo	Performing Whiteness in the Postcolony : Afrikaners in South African Theatrical and Public Life / / Megan Lewis
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ISBN	9781609384487 1609384482
Descrizione fisica	1 online resource (267 pages) : illustrations
Collana	Studies in theatre history and culture
Disciplina	792.0968
Soggetti	White people - Race identity - South Africa Afrikaners - Race identity - South Africa Race relations in literature White people in literature Afrikaners in literature Performing arts - South Africa Theater - South Africa South Africa Social conditions 21st century
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface: stakes of performance and race, north and south -- Introduction: whiteness in the global imaginary -- Laagers of whiteness: Afrikaner ascendancy and the staging of a nation -- Rehearsing a white nation: Afrikaner performances of volk identity (1904-2009) -- Hyphens of humanity: whiteness and nostalgia in the work of Deon Opperman -- Queering Afrikanerdom: the performative maneuvers of Pieter-Dirk Uys -- Abject Afrikaner, iconoclast trekker: Peter van Heerden's performance interventions within the laagers of white masculinity -- Vuilgeboosted gangstas and romanties Afrikaner rappers: the zef whiteness of Die Antwoord and Jack Parow -- conclusion.
Sommario/riassunto	What does it mean to perform whiteness in the postcolonial era? To answer this question-crucial for understanding the changing meanings

of race in the twenty-first century-Megan Lewis examines the ways that members of South Africa's Afrikaner minority have performed themselves into, around, and out of power from the colonial period to the postcolony. The nation's first European settlers and in the twentieth century the architects of apartheid, since 1994 Afrikaners have been citizens of a multicultural, multilingual democracy. How have they enacted their whiteness in the past, and how do they do so now when their privilege has been deflated? ? *Performing Whiteness* examines the multiple speech acts, political acts, and theatrical acts of the Afrikaner volk or nation in theatrical and public life, including pageants, museum sites, film, and popular music as well as theatrical productions. Lewis explores the diverse ways in which Afrikaners perform whiteness, and the tactics they use, including nostalgia, melodrama, queering, abjection, and kitsch. She first investigates the way that apartheid's architects leveraged whiteness in support of their nation-building efforts in the early twentieth century. In addition to re-enacting national pilgrimages of colonial-era migrations and building massive monuments at home, Afrikaner nationalists took their show to the United States, staging critical events of the Boer War at the 1904 St. Louis Exposition. A case study of the South African experience, *Performing Whiteness* also offers parables for global whitenesses in the postcolonial era.
