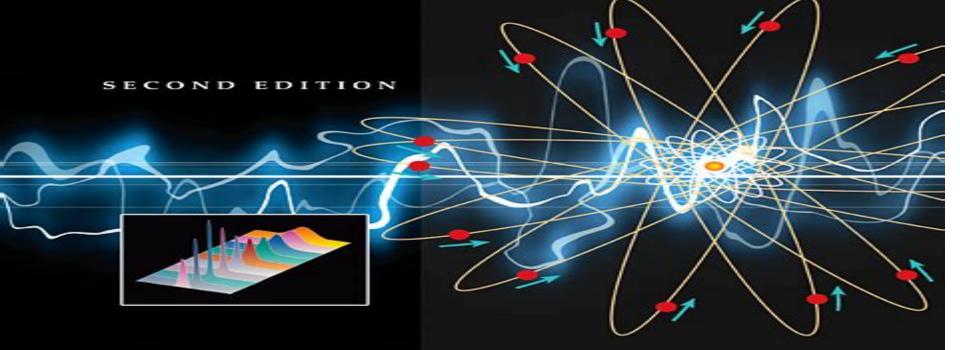
Ultrashort Laser Pulse Phenomena

Fundamentals, Techniques, and Applications on a Femtosecond Time Scale





Jean-Claude Diels Wolfgang Rudolph

<u>Ultrashort Laser Pulse Phenomena Ultrashort Laser</u> <u>Pulse Phenomena</u>

Junji Urayama

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engineers and scientists working in the areas of optics spectroscopy optical imaging photochemistry and ultrafast science and engineering Provides an easy to follow guide through faster than electronics probing and detection methods THE manual on designing and constructing femtosecond systems and experiments Discusses the essential technology for applications in micro machining femtochemistry medical imaging and attosecond science Elegant theoretical formulations in conjunction with experimental discussions on practical implementation and field applications of nonlinear and ultrafast optics Insightful presentation of measurement techniques with numerous examples of ultrafast processes in assorted materials Key Features of this edition Chapters 3 and 4 re written and combined into a single chapter starting with general concepts of coherent interaction evolving by approximations to the traditional concepts of nonlinear optics New chapter 4 on High Fields interactions to include High Harmonic Generation attosecond phenomena and particle accelerators New section on the synthesis of frequency combs cascade of Raman lines or of harmonics to create ultrashort pulses chapter 5 VECSEL lasers chapter 6 OPCPA Dazzler and Fazzler Chapter 8 Add comb spectroscopy and molecular spectroscopy in Chapter 10 Chapters 11 through 13 completely re written and updated **Ultrashort Laser Pulse Phenomena** J.-c Diels, 2006 Laser Pulse Phenomena, 2nd Edition Jean-Claude Diels, Wolfgang Rudolph, 2006 Ultrashort Laser Pulse Phenomena serves as an introduction to the phenomena of ultrashort laser pulses and describes how this technology can be applied in areas such as spectroscopy medical imaging electromagnetism optics and quantum physics Combining the principles with experimental techniques the book serves as a guide to designing and constructing femtosecond systems. The second edition has updated and expanded its content and includes more examples of ultrashort sources and a more comprehensive fundamentals chapter Diagnostic techniques and applications involving sensors mode locked lasers and imaging have been fully revised to include current technologies Written in a tutorial style this book is suitable for senior undergraduate and graduate students as well as engineers and scientists working in the areas of optics spectroscopy optical imaging photochemistry and ultrafast science and engineering Provides an easy to follow guide through faster than electronics probing and detection methods THE manual on designing and constructing femtosecond systems and experiments Discusses essential technology for applications in micro machining femtochemistry and medical imaging Coherence and Ultrashort Pulse Laser Emission F. J. Duarte, 2010-12-30 In this volume recent contributions on coherence provide a useful perspective on the diversity of various coherent sources of emission and coherent related phenomena of current interest These papers provide a preamble for a larger collection of contributions on ultrashort pulse laser generation and ultrashort pulse laser phenomena Papers on ultrashort pulse phenomena include works on few cycle pulses high power generation propagation in various media to various applications of current interest Undoubtedly Coherence and Ultrashort Pulse Emission offers a rich and practical perspective on this rapidly evolving field Coherence and Ultrashort Pulse Laser Emission F. J. Duarte, 2010-12-30 In this volume recent contributions on coherence provide a useful perspective on the diversity of various coherent sources of emission and

coherent related phenomena of current interest These papers provide a preamble for a larger collection of contributions on ultrashort pulse laser generation and ultrashort pulse laser phenomena Papers on ultrashort pulse phenomena include works on few cycle pulses high power generation propagation in various media to various applications of current interest Undoubtedly Coherence and Ultrashort Pulse Emission offers a rich and practical perspective on this rapidly evolving field

Laser Spectroscopy Wolfgang Demtröder, 2013-06-29 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material e g frequency doubling in external cavities reliable cw parametric oscillators tunable narrow band UV sources more sensitive detection techniques tunable femtosecond and sub femtosecond lasers X ray region and the attosecond range control of atomic and molecular excitations frequency combs able to synchronize independent femtosecond lasers coherent matter waves and still more applications in chemical analysis medical diagnostics and engineering **Laser Pulse Phenomena and Applications** F. J. Duarte, 2010-12-30 Pulsed lasers are available in the gas liquid and the solid state These lasers are also enormously versatile in their output characteristics yielding emission from very large energy pulses to very high peak power pulses Pulsed lasers are equally versatile in their spectral characteristics. This volume includes an impressive array of current research on pulsed laser phenomena and applications Laser Pulse Phenomena and Applications covers a wide range of topics from laser powered orbital launchers and laser rocket engines to laser matter interactions detector and sensor laser technology laser ablation and biological applications A New Generation of High-Power, Waveform Controlled, Few-Cycle Light Sources Marcus Seidel, 2019-02-01 This thesis presents first successful experiments to carrier envelope phase stabilize a high power mode locked thin disk oscillator and to compress the pulses emitted from this laser to durations of only a few optical cycles Moreover the monograph introduces several methods to achieve power scalability of compression and stabilization techniques All experimental approaches are compared in detail and may serve as a guideline for developing high power waveform controlled few cycle light sources which offer tremendous potential to exploit extreme nonlinear optical effects at unprecedentedly high repetition rates and to establish table top infrared light sources with a unique combination of brilliance and bandwidth As an example the realization of a multi Watt multi octave spanning mid infrared femtosecond source is described The thesis starts with a basic introduction to the field of ultrafast laser oscillators It subsequently presents additional details of previously published research results and establishes a connection between them It therefore addresses both newcomers to and experts in the field of high power ultrafast laser development **Atomic and Molecular Spectroscopy** Sune Svanberg, 2012-12-06 A wide ranging review of modern spectroscopic techniques such as X ray photoelectron optical and laser spectroscopy and radiofrequency and microwave techniques On the fundamental side the book focuses on physical principles and the impact of spectroscopy on our understanding of the building blocks of matter

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is that it is written by a single author with a few collaborators in a systematic way Hence it provides a comprehensive and systematic description of the research field of ultrashort pulse lasers and ultrafast spectroscopy Generation of ultrashort pulses in deep ultraviolet to near infrared Generation of ultrashort pulses in terahertz Carrier envelope phase CEP Simple NLO processes with a few colors Multi color involved NLO processes Multi color ultrashort pulse generation NLO materials NLO processes in time resolved spectroscopy Low dimension materials Conductors and superconductors Chemical reactions and material processing Photobiological reactions Non-exponential Decay of Shock-wavepackets Jeffrey Edwin Thoma, 1999 Nuclear Data ,1996 Coherence and Ultrashort Pulse Laser Emission F. J. Duarte, 2010-12-30 In this volume recent contributions on coherence provide a useful perspective on the diversity of various coherent sources of emission and coherent related phenomena of current interest These papers provide a preamble for a larger collection of contributions on ultrashort pulse laser generation and ultrashort pulse laser phenomena Papers on ultrashort pulse phenomena include works on few cycle pulses high power generation propagation in various media to various applications of current interest Undoubtedly Coherence and Ultrashort Pulse Emission offers a rich and practical perspective on this rapidly evolving field Ultrafast Carrier Dynamics in Semiconductor Self-assembled Quantum Dots in the Low Carrier Density Regime Junji Urayama, 2002

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