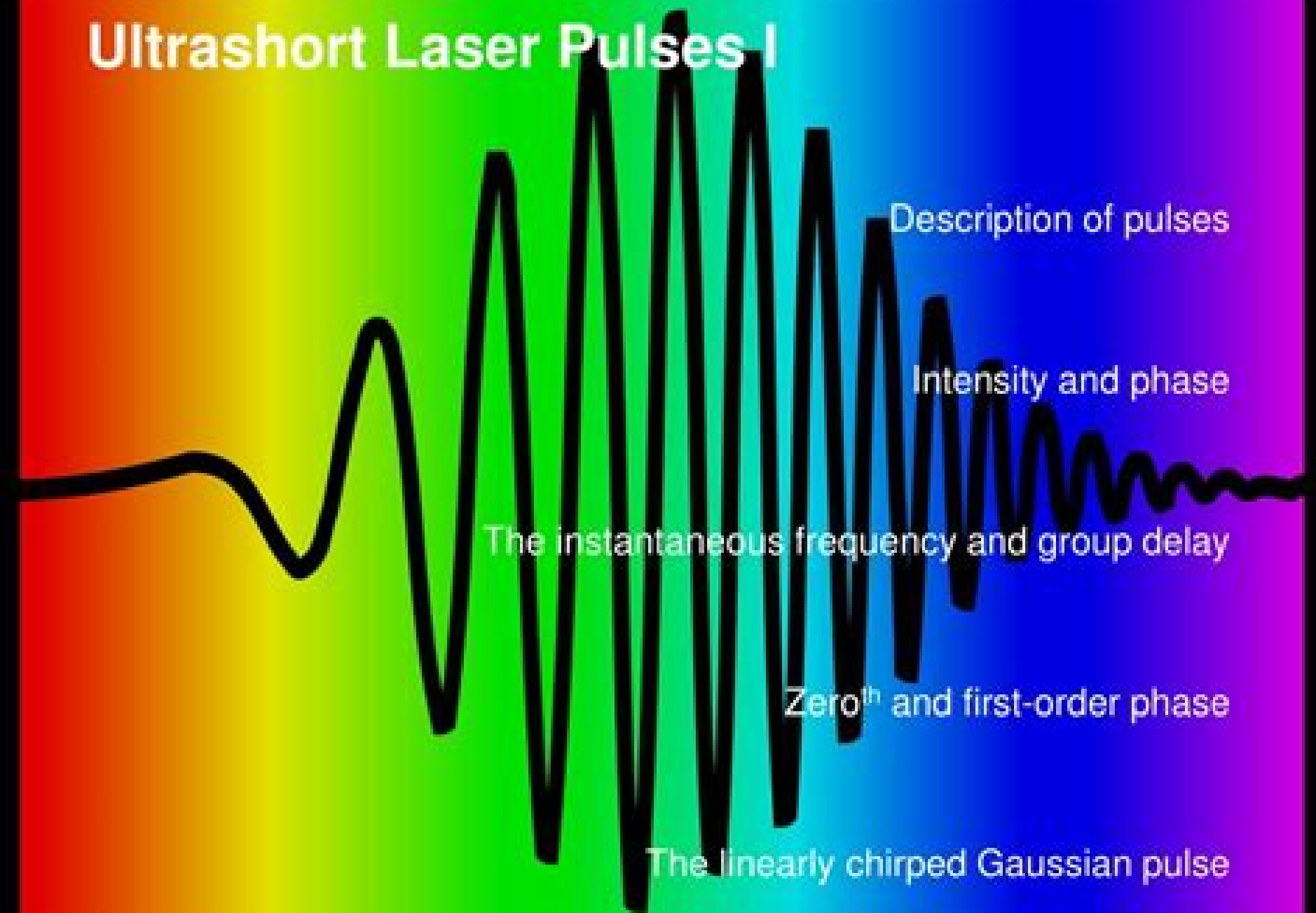


Ultrashort Laser Pulses I



Lasers For Ultrashort Light Pulses

S.L. Shapiro



Lasers For Ultrashort Light Pulses:

Lasers for Ultrashort Light Pulses Joachim Herrmann, Bernd Wilhelmi, 1987 *Ultrashort Light Pulses* S.L. Shapiro, 2013-06-29

Soon after the invention of the laser a brand new area of endeavour emerged after the discovery that powerful ultrashort picosecond light pulses could be extracted from some lasers Chemists physicists and engineers quickly recognized that such pulses would allow direct temporal studies of extremely rapid phenomena requiring however development of revolutionary ultrafast optical and electronic devices For basic research the development of picosecond pulses was highly important because experimentalists were now able to measure directly the motions of atoms and molecules in liquids and solids by disrupting a material from equilibrium with an intense picosecond pulse and then recording the time of return to the equilibrium state by picosecond techniques Studies of picosecond laser pulses their generation and diagnostic techniques are still undergoing a fairly rapid expansion but a critical review of the state of the art by experienced workers in the field may be a timely help to new experimentalists We shall review the sophisticated tools developed in the last ten years including the modelocked picosecond pulse emitting lasers the picosecond detection techniques and picosecond devices Moreover we shall outline the basic foundations for the study of rapid events in chemistry and physics which have emerged after many interesting experiments and which are now being applied in biology An in depth coverage of various aspects of the picosecond field should be helpful to scientists and engineers alike *Ultrashort Laser Pulse Phenomena* Jean-Claude Diels, Wolfgang Rudolph, 2006-09-21

Ultrashort Laser Pulse Phenomena Second Edition serves as an introduction to the phenomena of ultra short laser pulses and describes how this technology can be used to examine problems in areas such as electromagnetism optics and quantum mechanics Ultrashort Laser Pulse Phenomena combines theoretical backgrounds and experimental techniques and will serve as a manual on designing and constructing femtosecond faster than electronics systems or experiments from scratch Beyond the simple optical system the various sources of ultrashort pulses are presented again with emphasis on the basic concepts and how they apply to the design of particular sources dye lasers solid state lasers semiconductor lasers fiber lasers and sources based on frequency conversion 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 **Ultrashort Light Pulses** S.L. Shapiro, 2014-03-12

Soon after the invention of the laser a brand new area of endeavour emerged after the discovery that powerful ultrashort picosecond light pulses could be extracted from some lasers Chemists physicists and engineers quickly recognized that such pulses would allow direct temporal studies of extremely rapid phenomena requiring however development of revolutionary ultrafast optical and electronic devices For basic research the development of picosecond pulses was highly important because experimentalists were now able to measure directly the motions of atoms and molecules in liquids and solids by disrupting a material from

equilibrium with an intense picosecond pulse and then recording the time of return to the equilibrium state by picosecond techniques. Studies of picosecond laser pulses, their generation and diagnostic techniques are still undergoing a fairly rapid expansion but a critical review of the state of the art by experienced workers in the field may be a timely help to new experimentalists. We shall review the sophisticated tools developed in the last ten years including the modelocked picosecond pulse emitting lasers, the picosecond detection techniques and picosecond devices. Moreover we shall outline the basic foundations for the study of rapid events in chemistry and physics which have emerged after many interesting experiments and which are now being applied in biology. An in depth coverage of various aspects of the picosecond field should be helpful to scientists and engineers alike.

Ultrashort Laser Pulses Wolfgang Kaiser, 2006-11-14. This second edition in paperback provides an up to date review of the state of the art in different generation processes for ultrashort laser pulses. In addition extensive applications in a wide range of fields in physics, engineering, chemistry and biology are discussed. Eight chapters deal with the following topics: the generation of picosecond and femtosecond laser pulses, nonlinear wave interactions, new investigations in solid state physics, recent progress in optoelectronics, advances in coherent material excitations, ultrafast vibrational lifetimes and energy redistribution in liquids, new observations of chemical reactions in the liquid state, the primary processes of important biological systems. The book is essential reading for scientists and engineers who want to know what is going on in this rapidly advancing field. It should also interest graduate students and others who seek an introduction to laser pulses.

Ultrashort Laser Pulses and Applications D. H. Auston, 1988. This authoritative book is written by ten experts in the field. It provides an up to date review of the state of the art in different generation processes for ultrashort laser pulses. Extensive applications in a wide range of fields in physics, engineering, chemistry and biology are also discussed. Eight chapters deal with the following topics: the generation of picosecond and femtosecond laser pulses, nonlinear wave interactions, new investigations in solid state physics, recent progress in optoelectronics, advances in coherent material excitations, ultrafast vibrational lifetimes and energy redistribution in liquids, new observations of chemical reactions in the liquid state, the primary processes of important biological systems. The book is essential reading for scientists and engineers who want to know what is going on in this rapidly advancing field. It should also interest graduate students and others who seek an introduction to laser pulses.

Femtosecond Laser Spectroscopy Peter Hannaford, 2005-12-27. The embryonic development of femtosience stems from advances made in the generation of ultrashort laser pulses. Beginning with mode locking of glass lasers in the 1960s, the development of dye lasers brought the pulse width down from picoseconds to femtoseconds. The breakthrough in solid state laser pulse generation provided the current reliable table top laser systems capable of average power of about 1 watt and peak power density of easily watts per square centimeter with pulse widths in the range of four to eight femtoseconds. Pulses with peak power density reaching watts per square centimeter have been achieved in laboratory settings and more recently pulses of sub femtosecond duration have been successfully generated. As

concepts and methodologies have evolved over the past two decades the realm of ultrafast science has become vast and exciting and has impacted many areas of chemistry biology and physics and other fields such as materials science electrical engineering and optical communication In molecular science the explosive growth of this research is for fundamental reasons In femtochemistry and femtobiology chemical bonds form and break on the femtosecond time scale and on this scale of time we can freeze the transition states at configurations never before seen Even for n reactive physical changes one is observing the most elementary of molecular processes On a time scale shorter than the vibrational and rotational periods the ensemble behaves coherently as a single molecule trajectory

3D Laser Microfabrication Hiroaki Misawa, Saulius Juodkakis, 2006-08-21 A thorough introduction to 3D laser microfabrication technology leading readers from the fundamentals and theory to its various potent applications such as the generation of tiny objects or three dimensional structures within the bulk of transparent materials The book also presents new theoretical material on dielectric breakdown allowing a better understanding of the differences between optical damage on surfaces and inside the bulk as well as a look into the future Chemists physicists materials scientists and engineers will find this a valuable source of interdisciplinary knowledge in the field of laser optics and nanotechnology

Laser Physics Peter W. Milonni, Joseph H. Eberly, 2010-03-29 Although the basic principles of lasers have remained unchanged in the past 20 years there has been a shift in the kinds of lasers generating interest Providing a comprehensive introduction to the operating principles and applications of lasers this second edition of the classic book on the subject reveals the latest developments and applications of lasers Placing more emphasis on applications of lasers and on optical physics the book's self contained discussions will appeal to physicists chemists optical scientists engineers and advanced undergraduate students

Springer Handbook of Lasers and Optics Frank Träger, 2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references

Ultrashort Laser Pulses and Applications Wolfgang Kaiser, 2013-01-11 Ten years ago Stanley L Shapiro edited the book entitled Ultrashort Light Pulses Topics Appl Phys Vol 18 which was written by eight experts in the field Six years later Charles V Shank added a bibliography 1980 1983 in the second edition with approximately one thousand new references During the past decade the field has grown so rapidly that a completely new book had to be written In particular the reduction of the time scale of light pulses into the femtosecond range has opened up new experimental possibilities never even foreseen in the preceding literature The vast literature with countless ideas and applications makes it impossible for a single person to write a comprehensive review Nine

scientists actively working in the field since its beginning have decided to join forces to prepare a new book describing the present state of the art. Emphasis is placed on the generation and numerous applications of ultrashort laser pulses. This book covers a wide area of science: physics, engineering, chemistry, and biology. The various chapters and sections are prepared in each case such that the reader is given a brief introduction to the specific subject. Ample references for a more detailed study are given at the end of each chapter.

Ultrashort Laser Pulse Phenomena: Fundamentals, Techniques, and Applications on a Femtosecond Time Scale Jean-Claude Diels, Wolfgang Rudolph, 1996-05. One of the first coherent tutorial graduate level text reference books on ultrashort laser phenomena, this book presents an introduction to the phenomena and explains how it can be used to help examine problems in areas such as electromagnetism, optics, and quantum mechanics. Written for students as well as experimental researchers in physics, engineering, biology, or chemistry, the text provides the necessary background and tools to design experiments involving ultrashort pulses. All aspects of design are covered from the construction of the source to the amplifier to the diagnostic method and finally to the design of the experiment in any field. The text reviews the basic properties of light propagation through matter and provides a study of simple optical components with emphasis on the important phenomena that occur with pulses of duration less than 10⁻¹² s or less than 0.3 mm in length. The reader is also provided with the fundamental concepts as well as numerical data through numerous tables necessary to design optical systems capable of manipulating such pulses. Beyond the simple optical system, the various types of sources of ultrashort pulses are presented again with emphasis on the basic concepts and how they apply to the design of particular sources: dye lasers, solid state lasers, semiconductor lasers, fiber lasers, and sources based on frequency conversion. This book is addressed as much to the physicist as to the engineer, chemist, biologist, student, or experienced researcher interested in the application of ultrashort light pulses to the study of ultrafast events in this field.

Key Features: Provides an easy to follow guide through faster than electronics probing and detection methods. Describes the intriguing aspects of optics when applied to ultrashort pulses. Offers a systematic and comprehensive lecture through all the uncommon and unexpected aspects of short pulse propagation through linear and nonlinear media. Serves as a manual on designing and constructing femtosecond systems or experiments from scratch. Presents a course that combined experimental techniques and theoretical backgrounds by authors who have two decades of experience in both theoretical and experimental aspects of ultrafast phenomena. Bridges the gap between an authored work and a textbook.

Ultrashort Laser Pulses and Applications Wolfgang Kaiser, 2013-03-14. Ten years ago Stanley L. Shapiro edited the book entitled *Ultrashort Light Pulses* (Topics Appl. Phys. Vol. 18) which was written by eight experts in the field. Six years later Charles V. Shank added a bibliography (1980-1983) in the second edition with approximately one thousand new references. During the past decade the field has grown so rapidly that a completely new book had to be written. In particular, the reduction of the time scale of light pulses into the femtosecond range has opened up new experimental possibilities never even foreseen in the preceding literature. The vast

literature with countless ideas and applications makes it impossible for a single person to write a comprehensive review. Nine scientists actively working in the field since its beginning have decided to join forces to prepare a new book describing the present state of the art. Emphasis is placed on the generation and numerous applications of ultrashort laser pulses. This book covers a wide area of science: physics, engineering, chemistry, and biology. The various chapters and sections are prepared in each case such that the reader is given a brief introduction to the specific subject. Ample references for a more detailed study are given at the end of each chapter.

Library of Congress Subject Headings Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013. *Library of Congress Subject Headings* Library of Congress. Subject Cataloging Division, 1980. *Scientific and Technical Aerospace Reports*, 1988.

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.

Femtosecond Laser Pulses Claude Rullière, 2013-11-11. This book is an advanced textbook for scientists who require further training in femtosecond science. It is the result of a scientific adventure that started in 1991. At this time, the French Ministry of Education decided that in view of the growing importance of ultrashort laser pulses for the national scientific community, a Femtosecond Centre should be created in France and devoted to the further education of scientists who use femtosecond pulses as a research tool and who are not specialists in lasers or even in optics. After different proposals from different institutions, Université Bordeaux I and our laboratory were finally selected to ensure the success of this new centre. Since the scientists involved were located throughout France, it was decided that the training courses should be concentrated into a short period of at least 5 days. It is certainly a challenge to give a good grounding in the science of femtosecond pulses in such a short period to scientists who do not necessarily have the required scientific background and are in some cases involved only as users of these pulses as a tool. To start, we contacted well-known specialists from the French femtosecond community; we are very thankful that they showed their enthusiasm and immediately started work on this fascinating project. Our adventure began in 1992 and each year since, generally in spring, we have organized a one-week femtosecond training course at the Bordeaux University.

Femtosecond Laser Pulses Claude Rullière, 2007-05-27. This smooth introduction for advanced undergraduates starts with the fundamentals of lasers and pulsed optics. Thus, prepared, the student is introduced to short and ultrashort laser pulses and learns how to generate, manipulate, and measure them. Spectroscopic implications are also discussed. The second edition has been

completely revised and includes two new chapters on some of the most promising and fast developing applications in ultrafast phenomena coherent control and attosecond pulses *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office,2007

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