

TIME-DOMAIN OPTICS OF ULTRASHORT WAVEFORMS

A. B. CHIRIKOVA

Time Domain Optics Of Ultrashort Waveforms

Tobias Bleicker



Time Domain Optics Of Ultrashort Waveforms:

Time Domain Optics of Ultrashort Waveforms Aleksandr Borisovich Shvartsburg, 2023 Time domain transient electrodynamics of dispersive and glossy media form the subject of this monograph Techniques based on such interactions find use in materials analysis and fractal communication and energy transfer through dispersive and absorbing media

Time-domain Optics of Ultrashort Waveforms A. B. Shvartsburg, 1996 Time domain transient electrodynamics of dispersive and glossy media form the subject of this book This topic is associated with the unusual interactions between ultra short transient signals and these media Techniques based on such interactions find use in materials analysis fractal communication and energy transfer through dispersive and absorbing media Traditional analytical techniques Fourier based break down in the extreme conditions encountered in these situations Shvartsburg gives here other successful techniques and methods to allow scientists to analyse and model this behaviour

Progress in Optics, 2002-12-11 This volume contains five articles presenting reviews of several topics of current research which are likely to be of interest to optical scientists and optical engineers The first article by J Ohtsubo deals with the dynamics of feedback induced instability and chaos The characteristics of semiconductor lasers based on the rate equations including various laser structures are reviewed and the effects of optical feedback in semiconductor lasers are then discussed the general area of the nonlinear interaction of ultrafast pulses with optical and photonic crystal fibres are discussed In particular ultrafast pulse measurements pulse shaping and pulse control are discussed transient optical phenomena that take place in the spatial temporal dynamics of ultrashort pulses The interplay of diffractive and dispersive phenomena is examined They include coupled processes of amplitude and phase reshaping spectral variations and polarity reversal for different types of light pulses Reflection and refraction effects that take place at the interface between media with time dependent dielectric susceptibilities are also discussed principles of optical coherence tomography OCT This is a relatively new discipline with important potential applications in macroscopic microscopic and endoscopic imaging The article begins with a brief summary of the field and then describes various OCT interferometer configurations and discusses basic sample signal extraction techniques The article also covers subjects such as contrast generation techniques resolution signal processing techniques for image display image enhancement speckle suppression and OCT detection sensitivity A description of optical delay lines used in OCT is also presented concerned with modulation instability MI of electromagnetic waves in inhomogeneous and in discrete media The article pays special attention to the MI of electromagnetic waves in nonlinear optical fibres with periodic amplification dispersion and birefringence The MI in random media is also covered Other topics discussed in this article are discrete nonlinear systems with cubic quadratic and vectorial interactions and nonlinear optical systems such as tunnel coupled filters Some of the readers may note that authors from six different countries have contributed to this volume thus helping to maintain the international character of this series

Quantum Photonics:

Pioneering Advances and Emerging Applications Robert W. Boyd, Svetlana G. Lukishova, Victor N. Zadkov, 2019-02-19

This book brings together reviews by internationally renowned experts on quantum optics and photonics. It describes novel experiments at the limit of single photons and presents advances in this emerging research area. It also includes reprints and historical descriptions of some of the first pioneering experiments at a single photon level and nonlinear optics performed before the inception of lasers and modern light detectors, often with the human eye serving as a single photon detector. The book comprises 19 chapters, 10 of which describe modern quantum photonics results, including single photon sources, direct measurement of the photon's spatial wave function, nonlinear interactions, and non-classical light. Nanophotonics for room temperature single photon sources, time-multiplexed methods for optical quantum information processing, the role of photon statistics in visual perception, light-by-light coherent control using metamaterials, nonlinear nanoplasmonics, nonlinear polarization optics, and ultrafast nonlinear optics in the mid-infrared.

Modern Metrology Concerns Luigi Cocco, 2012-05-16
What are the recent developments in the field of Metrology? International leading experts answer this question, providing both state-of-the-art presentation and a road map to the future of measurement science. The book is organized in six sections according to the areas of expertise: namely Introduction, Length, Distance, and Surface Voltage, Current, and Frequency, Optics, Time, and Relativity, Biology, and Medicine. Theoretical basis and applications are explained in accurate and comprehensive manner, providing a valuable reference to researchers and professionals.

Advances in Information Optics and Photonics René Dändliker, 2008
In this age of the photon, information optics and photonics represent the key technologies to sustain our knowledge-based society. New concepts in classical and quantum entangled light, coherent interaction with matter, and novel materials and processes have led to remarkable advances in today's information science and technology. The ICO is closely involved with information optics, as exemplified by the ICO topical meeting on Optoinformatics, Information Photonics, St. Petersburg, Russia, 2006; the ICO ICTP Winter College on Quantum and Classical Aspects of Information Optics, Trieste, Italy, 2006; and the many ICO Prizes recently awarded on outstanding contributions on these topics. This book is in part based on these ICO activities.

Ultrafast Optics Andrew M. Weiner, 2011-09-20
A comprehensive treatment of ultrafast optics. This book fills the need for a thorough and detailed account of ultrafast optics. Written by one of the most preeminent researchers in the field, it sheds new light on technology that has already had a revolutionary impact on precision frequency metrology, high-speed electrical testing, biomedical imaging, and in revealing the initial steps in chemical reactions. *Ultrafast Optics* begins with a summary of ultrashort laser pulses and their practical applications in a range of real-world settings. Next, it reviews important background material, including an introduction to Fourier series and Fourier transforms, and goes on to cover Principles of mode locking, Ultrafast pulse measurement methods, Dispersion and dispersion compensation, Ultrafast nonlinear optics, second-order Ultrafast nonlinear optics, third-order Mode locking, selected advanced topics, Manipulation of ultrashort pulses, Ultrafast time-resolved spectroscopy, Terahertz time-domain electromagnetics. Professor Weiner's expertise

and cutting edge research result in a book that is destined to become a seminal text for engineers researchers and graduate students alike

Fundamentals of Photonics Bahaa E. A. Saleh, Malvin Carl Teich, 2007-03-09 Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a logical blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest

Active and Passive Optical Components for WDM Communications ,2003 Quantum Electronics ,1999 Quantum Electronics is the English edition of the Russian journal Kvantova Elektronika a leading journal in all aspects of laser research founded in 1971 Published research papers are on topics which include Laser Active Media Interaction of Laser Radiation with Matter Laser Plasma Non linear Optical Phenomena Quantum Electronic Devices Optical Processing of Information Laser Applications and Other Topics in Quantum Electronics *Optics and Spectroscopy* ,2001 *Optics Letters* ,2008 **Summaries of Papers Presented at the Conference on Lasers and Electro-optics** ,2002 Physics, Uspekhi ,2005 **Characterization of Very High Speed Semiconductor Devices and Integrated Circuits** Ravi Jain,1987 **Wave Optics and Photonic Devices for Optical Information Processing II** Pierre Ambs, Fred R. Beyette,2003 **The Cumulative Book Index** ,1997 A world list of books in the English language **Conference Proceedings** ,2004 **Journal of the National Institute of Information and Communications Technology** ,2008 **Optics in Computing** ,2001

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