

EUGENE GAMALY

Theory, Experiments and Applications

FEMTOSECOND LASER-MATTER INTERACTIONS



Femtosecond Laser Matter Interaction Theory Experiments And Applications

Eugene G. Gamaly



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Femtosecond Laser-Matter Interaction Eugene G. Gamaly, 2011-10-06 This is the first comprehensive treatment of the interaction of femtosecond laser pulses with solids at nonrelativistic intensity It connects phenomena from the subtle atomic motion on the nanoscale to the generation of extreme pressure and temperature in the interaction zone confined inside a solid The femtosecond laser matter interaction has already found numerous applications in industry medicine and materials science However there is no consensus on the interpretation of related phenomena With mathematics kept to a minimum this is a highly engaging and readable treatment for students and researchers in science and engineering The book avoids complex mathematical formulae and hence the content is accessible to nontechnical readers Useful summaries after each chapter provide compressed information for quick estimates of major parameters in planned or performed experiments The book connects the basic physics of femtosecond laser solid interactions to a broad range of applications Through the text basic assumptions are derived from the first principles and new results and ideas are presented From such analyses a qualitative and predictive framework for the field emerges the impact of which on applications is also discussed

Femtosecond Laser-Matter Interactions Eugene G. Gamaly, 2022-01-31 This book describes the ultra short laser matter interactions from the subtle atomic motion to the generation of extreme pressures inside the bulk of a transparent crystal It is the successor to Femtosecond Laser Matter Interactions Theory Experiment and Applications 2011 Explanation and experimental verification of the exceptional technique for the phase transformations under high pressure are in the core of the book The novel phase formation occurs along the unique solid plasmasolid transformation path the memory of the initial state is lost after conversion to plasma New phase forms from chaos during the cooling to the ambient The pressure affected material remains detained inside a pristine crystal at the laboratory tabletop Unique super dense aluminium and new phases of silicon were created by the confined micro explosions The text also describes the recent studies that used the quasi non diffracting Bessel beams The applications comprise the new high pressure material formation and micromachining The book is an appealing source for readers interested in the cutting edge research exploring extreme conditions and creating nanostructures at the laboratory tabletop

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Pulsed Laser Ablation Ion N. Mihailescu, Anna Paola Caricato, 2018-01-09 Pulsed laser based techniques for depositing and processing materials are an important area of modern experimental and theoretical scientific research and development with promising challenging opportunities in the fields of nanofabrication and nanostructuring Understanding the interplay between deposition processing conditions laser parameters as well as material properties and dimensionality is demanding for

improved fundamental knowledge and novel applications This book introduces and discusses the basic principles of pulsed laser matter interaction with a focus on its peculiarities and perspectives compared to other conventional techniques and state of the art applications The book starts with an overview of the growth topics followed by a discussion of laser matter interaction depending on laser pulse duration background conditions materials and combination of materials and structures The information outlines the foundation to introduce examples of laser nanostructuring processing of materials pointing out the importance of pulsed laser based technologies in modern nano science With respect to similar texts and monographs the book offers a comprehensive review including bottom up and top down laser induced processes for nanoparticles and nanomicrostructure generation Theoretical models are discussed by correlation with advanced experimental protocols in order to account for the fundamentals and underline physical mechanisms of laser matter interaction Reputed internationally recognized experts in the field have contributed to this book In particular this book is suitable for a reader graduate students as well as postgraduates and more generally researchers new to the subject of pulsed laser ablation in order to gain physical insight into and advanced knowledge of mechanisms and processes involved in any deposition processing experiment based on pulsed laser matter interaction Since knowledge in the field is given step by step comprehensively this book serves as a valid introduction to the field as well as a foundation for further specific readings

High-Energy-Density Physics R Paul Drake, 2018-01-02 The raw numbers of high energy density physics are amazing shock waves at hundreds of km s approaching a million km per hour temperatures of millions of degrees and pressures that exceed 100 million atmospheres This title surveys the production of high energy density conditions the fundamental plasma and hydrodynamic models that can describe them and the problem of scaling from the laboratory to the cosmos Connections to astrophysics are discussed throughout The book is intended to support coursework in high energy density physics to meet the needs of new researchers in this field and also to serve as a useful reference on the fundamentals Specifically the book has been designed to enable academics in physics astrophysics applied physics and engineering departments to provide in a single course an introduction to fluid mechanics and radiative transfer with dramatic applications in the field of high energy density systems This second edition includes pedagogic improvements to the presentation throughout and additional material on equations of state heat waves and ionization fronts as well as problem sets accompanied by solutions

Instabilities in Laser-Matter Interaction Sergei I. Anisimov, Viktor A. Khokhlov, 1995-03-23 This book describes the thermal and hydrodynamic instabilities appearing in laser matter interactions at moderate intensities These instabilities result in the distortion of phase transition front dispersion of target material in condensed phase formation of dissipative surface structures generation of complex oscillatory evaporation modes and so on These effects in turn lead to the appearance of liquid droplets in an expanding vapor non uniform removal of a solid material and the enhanced light absorption in the vapor plume This book focuses on nonresonant interactions It concentrates on the range of low and moderate laser intensities that are important for

technological applications of lasers Instabilities in Laser Matter Interaction provides a theoretical background to the interpretation of experimental results and an understanding of the effect of instabilities on the processes of laser technology

Nonresonant Laser-matter Interaction (NLMI-11) Michail N. Libenson, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature Optoelectronics Engineering and Information Technologies in Industry D.A. Li, W.H. Zhou, 2013-09-18 Selected peer reviewed papers from the 2013 2nd International Conference on Opto Electronics Engineering and Materials Research OEMR 2013 October 19 20 2013 Zhengzhou Henan China **Asian Summer School on Laser Plasma Acceleration and Radiation** Zheng-Ming Sheng, Jie Zhang, 2007-07-19 This volume features 11 papers presented by senior scientists at the 1st Asian Summer School on Laser Plasma Acceleration and Radiation held in August 2006 in Beijing China Plasma physicists accelerator physicists astrophysicists and laser physicists will gain a detailed overview of the state of the science in laser plasma acceleration and radiation along with its many emerging applications Micro- and Macroscopic Photonic Control of Matter Anton Ryabtsev, 2016 **Laser-Driven Relativistic Plasmas Applied to Science, Industry and Medicine** Paul R. Bolton, Hiroyuki Daido, 2009-08-04 Selected papers from the Second International Symposium on Laser Driven Relativistic Plasmas Applied to Science Industry and Medicine which was held at the Kansai Photon Science Institute of the Japan Atomic Energy Agency P xii **Conference on Lasers and Electro-optics Europe**, 2000 Femtosecond Laser Pulses Claude Rulliere, 2007-05-27 This is the second edition of this advanced textbook written for scientists who require further training in femtosecond science Four years after publication of the first edition femtosecond science has overcome new challenges and new applications have become mature It is necessary to take into account these new developments Two main topics merged during this period that support important scientific activities attosecond pulses are now generated in the X UV spectral domain and coherent control of chemical events is now possible by tailoring the shape of femtosecond pulses To update this advanced textbook it was necessary to introduce these fields two new chapters are in this second edition Coherent Control in Atoms Molecules and Solids Chap 11 and Attosecond Pulses Chap 12 with well documented references Some changes addenda and new references are introduced in the first edition's ten original chapters to take into account new developments and update this advanced textbook which is the result of a scientific adventure that started in 1991 At that 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 *Optics Education*, 1995

Microphotonics - Materials, Physics and Applications: Volume 637 Kazumi Wada, 2001-09-20 The MRS Symposium

Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Interaction of Femtosecond Laser Pulses with Solids: Electron** Roman V. Dyukin, Eugeny B. Yakovlev, Galina D. Shandybina, George A. Martsinovskiy, Olga N. Sergaeva, Vera V. Svirina, 2012 *Journal of the Optical Society of America* , 1988 **Short Pulse Laser Interactions With Matter: An Introduction** Paul Gibbon, 2005-09-05 This book represents the first comprehensive treatment of the subject covering the theoretical principles present experimental status and important applications of short pulse laser matter interactions Femtosecond lasers have undergone dramatic technological advances over the last fifteen years generating a whole host of new research activities under the theme of ultrafast science The focused light from these devices is so intense that ordinary matter is torn apart within a few laser cycles This book takes a close up look at the exotic physical phenomena which arise as a result of this new form of light matter interaction covering a diverse set of topics including multiphoton ionization rapid heatwaves fast particle generation and relativistic self channeling These processes are central to a number of exciting new applications in other fields such as microholography optical particle accelerators and photonuclear physics Repository for numerical models described in Chapter 6 can be found at www.fz-juelich.de/zam/cams-plasma SPLIM a *Conference Digest* , 2000 *Generation, Amplification, and Measurement of Ultrashort Laser Pulses* , 1995

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