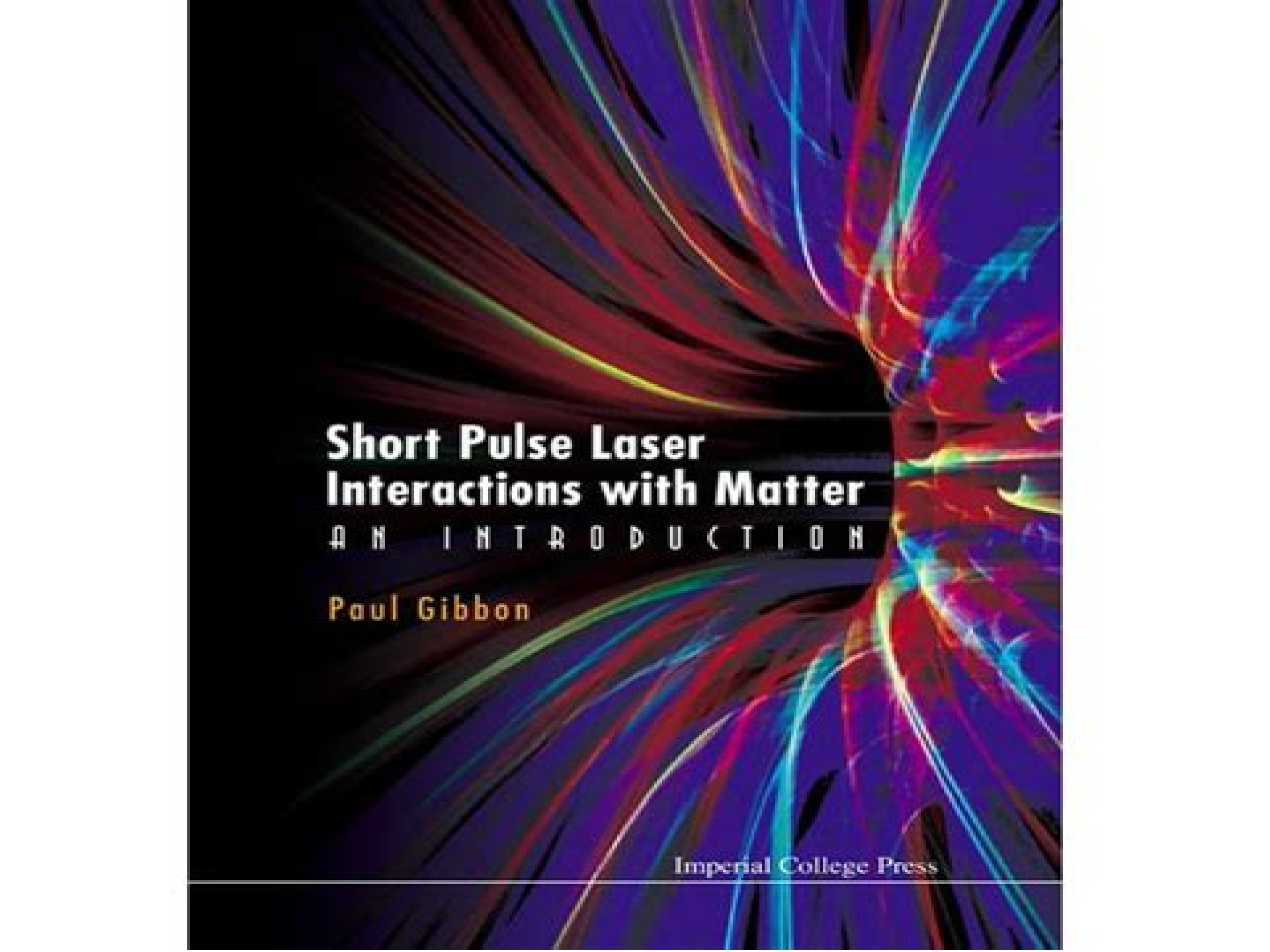




Short Pulse Laser Interactions with Matter

A N I N T R O D U C T I O N

Paul Gibbon

Imperial College Press

Short Pulse Laser Interactions With Matter An Introduction

Andrei Seryi, Elena Seraia



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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

Laser Physics Simon Hooker, Colin Webb, 2010-08-05 An up to date perspective on laser technology for students at advanced undergraduate or introductory graduate level The principles of operation and applications of modern laser systems are analysed in detail The text has over 300 diagrams and each chapter is accompanied with questions solutions available on application

Particle Interactions in High-Temperature Plasmas Oliver James Pike, 2017-08-17 This thesis makes two important contributions to plasma physics The first is the extension of the seminal theoretical works of Spitzer and Braginskii which describe the basics of particle interactions in plasma to relativistic systems Relativistic plasmas have long been studied in high energy astrophysics and are becoming increasingly attainable in the laboratory The second is the design of a new class of photon photon collider which is the first capable of detecting the Breit Wheeler process Though it offers the simplest way for light to be converted into matter the process has never been detected in the 80 years since its theoretical prediction The experimental scheme proposed here exploits the radiation used in inertial confinement fusion experiments and could in principle be implemented in one of several current generation facilities

Ultrafast Laser Nanostructuring Razvan Stoian, Jörn Bonse, 2023-04-06 Bringing together contributions from leading experts in the field this book reviews laser processing concepts that allow the structuring of material beyond optical limits and methods that facilitate direct observation of the underlying mechanisms by exploring direct structuring and self organization phenomena The capacity to nanostructure material using ultrafast lasers lays the groundwork for the next generation of flexible and precise material processing tools Rapid access to scales of 100 nm and below in two and three dimensions becomes a factor of paramount importance to engineer materials and to design innovative functions To reflect the dynamic nature of the field at all levels from basic science to applications the book is divided into three parts Fundamental Processes Concepts of Extreme Nanostructuring and Applications each of which is comprehensively covered This book will be a useful resource for graduate students and researchers in laser processing materials engineering and

nanoscience High-order Harmonic Generation in Laser Plasma Plumes Rashid A. Ganeev, 2013 This book represents the first comprehensive treatment of high order harmonic generation in laser produced plumes covering the principles past and present experimental status and important applications It shows how this method of frequency conversion of laser radiation towards the extreme ultraviolet range matured over the course of multiple studies and demonstrated new approaches in the generation of strong coherent short wavelength radiation for various applications Significant discoveries and pioneering contributions of researchers in this field carried out in various laser scientific centers worldwide are included in this first attempt to describe the important findings in this area of nonlinear spectroscopy High Order Harmonic Generation in Laser Plasma Plumes is a self contained and unified review of the most recent achievements in the field such as the application of clusters fullerenes nanoparticles nanotubes for efficient harmonic generation of ultrashort laser pulses in cluster containing plumes and resonance induced enhancement of harmonic yield It can be used as an advanced monograph for researchers and graduate students working in the field of nonlinear spectroscopy It is also suitable for researchers in laser physics and nonlinear optics who wish to have an overview of the advanced achievements in laser ablation induced high order harmonic generation spectroscopy The carefully presented details of this book will be of value to research devoted to the understanding and control frequency conversion of laser pulses in plasma plumes The studies described in this book pave the way for the development of a new method of materials studies using the laser ablation induced high order harmonic generation spectroscopy which can exploit the spectral and structural properties of various solid state materials through their ablation and further propagation of short laser pulse through laser produced plasma and generation of high order harmonics Relativistic Electron Mirrors Daniel Kiefer, 2014-07-25 A dense sheet of electrons accelerated to close to the speed of light can act as a tuneable mirror that can generate bright bursts of laser like radiation in the short wavelength range simply via the reflection of a counter propagating laser pulse This thesis investigates the generation of such a relativistic electron mirror structure in a series of experiments accompanied by computer simulations It is shown that such relativistic mirror can indeed be created from the interaction of a high intensity laser pulse with a nanometer scale ultrathin foil The reported work gives a intriguing insight into the complex dynamics of high intensity laser nanofoil interactions and constitutes a major step towards the development of a relativistic mirror which could potentially generate bright burst of X rays on a micro scale Progress in Ultrafast Intense Laser Science XVI Kaoru Yamanouchi, Katsumi Midorikawa, Luis Roso, 2021-07-30 This book covers a broad range of topics from the interdisciplinary research field of ultrafast intense laser science focusing on atoms and molecules interacting with intense laser fields laser induced filamentation high order harmonics generation and high power lasers and their applications This sixteenth volume features contributions from world renowned researchers introducing the latest reports on probing molecular chirality with intense laser fields and the most recent developments in the Shanghai Superintense Ultrafast Laser Facility project The PUILS series delivers up to date

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Unifying Physics of Accelerators, Lasers and Plasma Andrei Seryi,Elena Seraia,2023-04-13 Unifying Physics of Accelerators Lasers and Plasma introduces the physics of accelerators lasers and plasma in tandem with the industrial methodology of inventiveness a technique that teaches that similar problems and solutions appear again and again in seemingly dissimilar disciplines

Investigations of Field Dynamics in Laser Plasmas with Proton Imaging Thomas Sokollik,2011-01-12 Laser driven proton beams are still in their infancy but already have some outstanding attributes compared to those produced in conventional accelerators One such attribute is the typically low beam emittance This allows excellent resolution in imaging applications like proton radiography This thesis describes a novel imaging technique the proton streak camera that the author developed and first used to measure both the spatial and temporal evolution of ultra strong electrical fields in laser driven plasmas Such investigations are of paramount importance for the understanding of laser plasma interactions and thus for optimization of laser driven particle acceleration In particular the present work investigated micrometer sized spherical targets after laser irradiation The confined geometry of plasmas and fields was found to influence the kinetic energy and spatial distribution of accelerated ions This could be shown both in experimental radiography images and in numerical simulations one of which was selected for the cover page of Physical Review Letters

X-Ray Lasers 2014 Jorge Rocca,Carmen Menoni,Mario Marconi,2015-09-19 These proceedings comprise invited and contributed papers presented at the 14th International Conference on X Ray Lasers ICXRL 2014 This conference is part of a continuing series dedicated to recent developments and applications of x ray lasers and other coherent x ray sources with attention to supporting technologies and instrumentation New results in the generation of intense coherent x rays and progress toward practical devices and their applications in numerous fields are reported Areas of research in plasma based x ray lasers 4th generation accelerator based sources and higher harmonic generation and other x ray generation schemes are covered The scope of ICXRL 2014 included but was not limited to Laser pumped X ray lasers Discharge excitation and other X ray laser pumping methods Injection seeding of X ray amplifiers New lasing transitions and novel X ray laser schemes High Harmonic sources Free electron laser generation in the XUV and X ray range Novel schemes for coherent XUV and X ray generation XUV and X ray optics and metrology Driving laser technology Theory and modeling of X ray gain medium and beam characteristics Applications of high brightness and ultrashort X ray sources

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