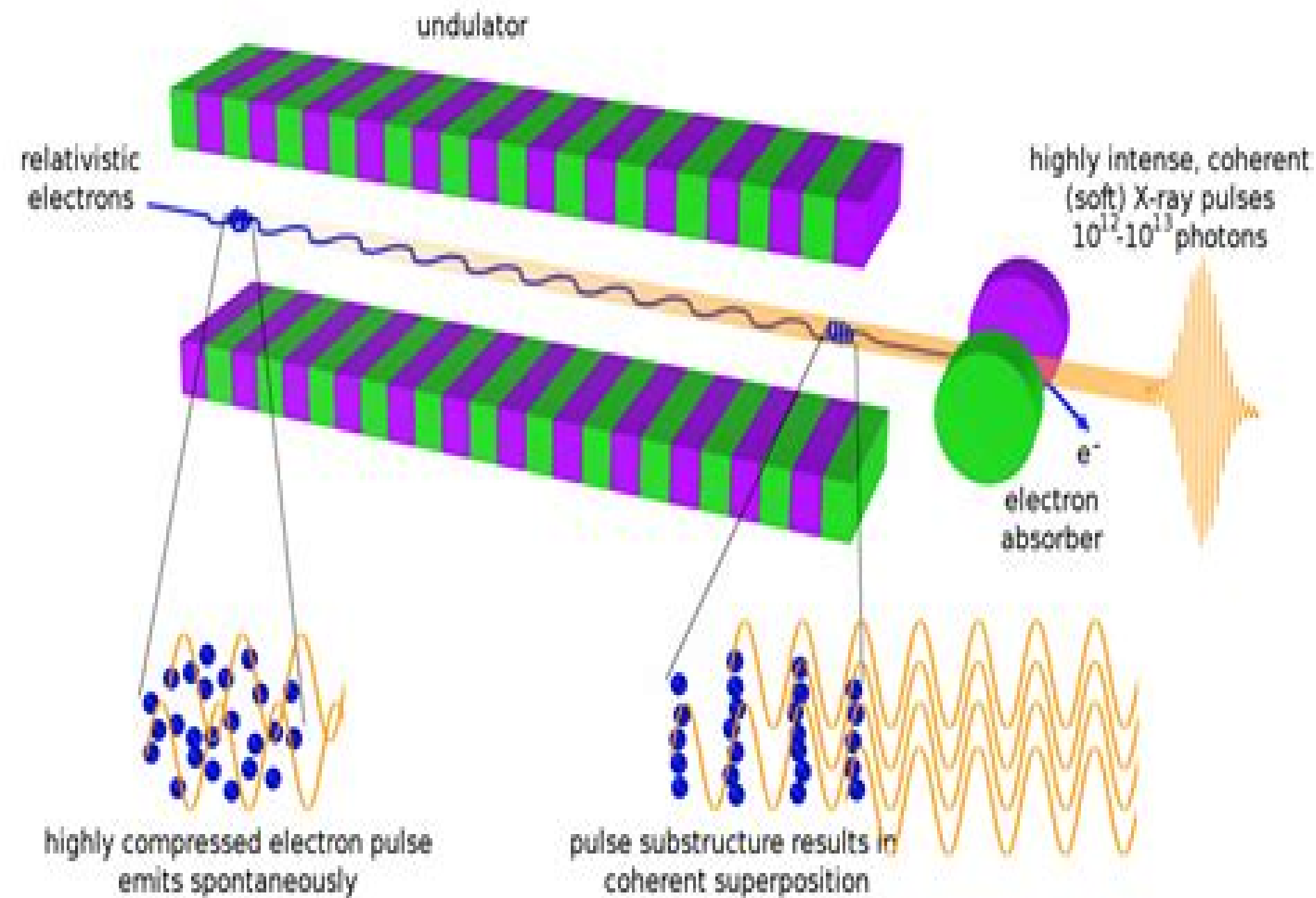




Free Electron Lasers

S. Martellucci, A.N. Chester



Free Electron Lasers :

Ultraviolet and Soft X-Ray Free-Electron Lasers Peter Schmüser, Martin Dohlus, Jörg Rossbach, 2008-09-18 The high scientific interest in coherent X ray light sources has stimulated world wide efforts in developing X ray lasers In this book a particularly promising approach is described the free electron laser FEL which is pursued worldwide and holds the promise to deliver ultra bright X ray pulses of femtosecond duration Other types of X ray lasers are not discussed nor do we try a comparison of the relative virtues and drawbacks of different concepts The book has an introductory character and is written in the style of a university textbook for the many new comers to the field of free electron lasers graduate students as well as accelerator physicists engineers and technicians it is not intended to be a scientific monograph for the experts in the field Building on lectures by one of us J R at the CERN Accelerator School and motivated by the positive response to a series of seminars on FEL theory for pedestrians given by P S within the framework of the Academic Training Program at DESY we have aimed at presenting the theory of the low gain and the high gain FEL in a clear and concise mathematical language Particular emphasis is put on explaining and justifying the assumptions and approximations that are needed to obtain the differential equations describing the FEL dynamics Although we have tried our best to be simple the mathematical derivations are certainly not always as simple as one would like them to be However we are not aware of any easier approach to the FEL theory Some of the more involved calculations are put into the appendices *Free-electron Lasers* Thomas C. Marshall, 1985

X-Ray Free Electron Lasers Uwe Bergman, Vittal K. Yachandra, Junko Yano, 2017-08-15 Edited by pioneers in this exciting field and featuring contributions from leading researchers this book discusses the principles and applications of XFELs **Free-Electron Lasers in the Ultraviolet and X-Ray Regime** Peter Schmüser, Martin Dohlus, Jörg Rossbach, Christopher Behrens, 2014-02-19 The main goal of the book is to provide a systematic and didactic approach to the physics and technology of free electron lasers Numerous figures are used for illustrating the underlying ideas and concepts and links to other fields of physics are provided After an introduction to undulator radiation and the low gain FEL the one dimensional theory of the high gain FEL is developed in a systematic way Particular emphasis is put on explaining and justifying the various assumptions and approximations that are needed to obtain the differential and integral equations governing the FEL dynamics Analytical and numerical solutions are presented and important FEL parameters are defined such as gain length FEL bandwidth and saturation power One of the most important features of a high gain FEL the formation of microbunches is studied at length The increase of gain length due to beam energy spread space charge forces and three dimensional effects such as betatron oscillations and optical diffraction is analyzed The mechanism of Self Amplified Spontaneous Emission is described theoretically and illustrated with numerous experimental results Various methods of FEL seeding by coherent external radiation are introduced together with experimental results The world's first soft X ray FEL the user facility FLASH at DESY is described in some detail to give an impression of the complexity of such an

accelerator based light source The last chapter is devoted to the new hard X ray FELs which generate extremely intense radiation in the Angstr m regime The appendices contain supplementary material and more involved calculations **Free**

Electron Lasers 2002 K.-J. Kim,S.V. Milton,E. Gluskin,2003-08-21 This book contains the Proceedings of the 24th International Free Electron Laser Conference and the 9th Free Electron Laser Users Workshop which were held on September 9 13 2002 at Argonne National Laboratory Part I has been reprinted from Nucl Instr and Meth A 507 2003 Nos 1 2 **Free Electron Lasers** S. Martellucci,A.N. Chester,2013-03-09 The volume contains the proceedings of the 7th Course on Physics and Technology of Free Electron Lasers of the International School of Quantum Electronics which was held in Erice Italy from 17 to 29 August 1980 under the auspices of the Ettore Majorana Centre for Scientific Culture The level of this Course was much closer to a workshop than to a school and Advances in Free Electron Lasers might have been an appropriate title Many of the world s leading scientists in the field among them the inventor of FEL J M J Madey were brought together to review the accomplishments of FEL experiments as well various trends in FEL theory In editing this material we did not modify the original manu scripts except to assist in uniformity of style The papers are presented without reference to the chronology of the Course but in the following topical arrangement A Fundamentals of free electron lasers a group of tutorial papers B Free electron lasers operating in the Compton regime where theories and experiments of FELs based on Compton scattering are reviewed C Free electron lasers operating in the Raman regime a dis cussion of FELs based on Raman scattering D Optical klystrons where the possibility of this class of FEL is discussed from a theoretical viewpoint E

Free Electron Lasers 2000 V.N. Litvinenko,Y.K. Wu,2005-12-27 The 22nd International Free Electron Laser Conference and 7th FEL User Workshop were held August 13 18 2000 at Washington Duke Inn and Golf Club in Durham North Carolina USA The conference and the workshop were hosted by Duke University s Free Electron laser FEL Laboratory Following tradition the FEL prize award was announced at the banquet The year 2000 FEL prize was awarded to three scientists propelling the limits of high power FELs Steven Benson Eisuke Minehara and George Neill The conference program was comprised of traditional oral sessions on First Lasing FEL theory storage ring FELs linac and high power FELs long wavelength FELs SASE FELs accelerator and FEL physics and technology and new developments and proposals Two sessions on accelerator and FEL physics and technology reflected the emphasis on the high quality of accelerators and components for modern FELs The breadth of the applications was presented in the workshop oral sessions on materials processing biomedical and surgical applications physics and chemistry as well as on instrumentation and methods for FEL applications A special oral session was dedicated to FEL center status reports for users to learn more about the opportunities with FELs As usual the oral sessions were supplemented by poster sessions with in depth discussions and communications The FEL physicists and FEL users had excellent opportunities to interact throughout the duration of the event culminating a Joint Sessions The year 2000 was very successful being marked by lasing with two SASE and one storage ring short wavelength

FELs and by the first human surgery with the use of FEL to mention but a few The International Program Committee and chairs of the sessions had the challenging and exciting problem of selecting invited and contributed talks for the conferences and the workshop from the influx of abstracts mentioning new results and ideas The success of the conference was determined by these contributions Scientists from 15 countries gave 70 talks presented 176 posters and submitted 146 papers which are published in the present volume of proceedings *Principles of Free Electron Lasers* Henry P.

Freund, T.M. Antonsen, Jr., 2018-04-25 This book presents a comprehensive description of the physics of free electron lasers starting from the fundamentals and proceeding through detailed derivations of the equations describing electron trajectories and spontaneous and stimulated emission Linear and nonlinear analyses are described as are detailed explanations of the nonlinear simulation of a variety of configurations including amplifiers oscillators self amplified spontaneous emission high gain harmonic generation and optical klystrons Theory and simulation are anchored using comprehensive comparisons with a wide variety of experiments **Principles of Free Electron Lasers** H. P. Freund, T. M. Antonsen, Jr., 2018-04-25

This book presents a comprehensive description of the physics of free electron lasers starting from the fundamentals and proceeding through detailed derivations of the equations describing electron trajectories and spontaneous and stimulated emission Linear and nonlinear analyses are described as are detailed explanations of the nonlinear simulation of a variety of configurations including amplifiers oscillators self amplified spontaneous emission high gain harmonic generation and optical klystrons Theory and simulation are anchored using comprehensive comparisons with a wide variety of experiments

High Gain, High Power Free Electron Laser: Physics and Application to TeV Particle Acceleration R.

Bonifacio, L. De Salvo Souza, Claudio Pellegrini, 2012-12-02 During the past few years the physics and technology of charged particle beams on which electron positron linear colliders in the TeV region storage rings from synchrotron radiation sources and Free Electron Lasers are based has seen a remarkable development The purpose of this series of schools is to address the physics and technology issues of this field train young people and at the same time provide a forum for discussions on recent advances for scientists active in this field The subjects chosen for this first course reflect the recent interest in TeV electron positron colliders the possibility offered by Free Electron Lasers to power them and the developments in the production of high brightness electron beams Development and Applications of Free Electron Lasers Jia Chen, Hai-Cang

Ren, Xie Jialin, Ming-han Ye, 1997-05-22 Provides a comprehensive overview of the field of free electron lasers Each chapter is based on a graduate level lecture given by an internationally known expert in the field and is self contained beginning with introductory background material and culminating in an in depth discussion of the author's current research Written with both the student physicist and the active researcher in mind this book is sure to be an invaluable reference for graduate students and professionals alike **Free Electron Lasers** Sandor Varro, 2012-03-14 Free Electron Lasers consists of 10

chapters which refer to fundamentals and design of various free electron laser systems from the infrared to the xuv

wavelength regimes In addition to making a comparison with conventional lasers a couple of special topics concerning near field and cavity electrodynamics compact and table top arrangements and strong radiation induced exotic states of matter are analyzed as well The control and diagnostics of such devices and radiation safety issues are also discussed Free Electron Lasers provides a selection of research results on these special sources of radiation concerning basic principles applications and some interesting new ideas of current interest *The Physics of Free Electron Lasers* Evgeny Saldin,E.V.

Schneidmiller,M.V. Yurkov,1999-11-22 The Free Electron Laser FEL will be a crucial tool for research and industrial applications This book describes the physical fundamentals of FELs on the basis of classical mechanics electrodynamics and the kinetic theory of charged particle beams and will be suitable for graduate students and scientists alike After a short introduction the book discusses the theory of the FEL amplifier and oscillator diffraction effects in the amplifier and waveguide FEL **Physics of and Science with X-Ray Free-Electron Lasers** J. Hastings,C. Pellegrini,A.

Marinelli,2020-12-18 Many X Ray Free Electron Lasers X FELs have been designed built and commissioned since the first lasing of the Linac Coherent Light Source in the hard and soft X ray regions and great progress has been made in improving their performance and extending their capabilities Meanwhile experimental techniques to exploit the unique properties of X FELs to explore atomic and molecular systems of interest to physics chemistry biology and the material sciences have also been developed As a result our knowledge of atomic and molecular science has been greatly extended Nevertheless there is still much to be accomplished and the potential for discovery with X FELs is still largely unexplored The next generation of scientists will need to be well versed in both particle beams FEL physics and X ray photon science This book presents material from the Enrico Fermi summer school Physics of and Science with X Ray Free Electron Lasers held at the Enrico Fermi International School of Physics in Varenna Italy from 26 June 1 July 2017 The lectures presented at the school were aimed at introducing graduate students and young scientists to this fast growing and exciting scientific area and subjects covered include basic accelerator and FEL physics as well as an introduction to the main research topics in X FEL based biology atomic molecular optical science material sciences high energy density physics and chemistry Bridging the gap between accelerator FEL physicists and scientists from other disciplines the book will be of interest to all those working in the field **Scientific Assessment of High-Power Free-Electron Laser Technology** National Research Council,Division

on Engineering and Physical Sciences,Board on Physics and Astronomy,Committee on a Scientific Assessment of Free-Electron Laser Technology for Naval Applications,2009-04-06 This book presents a scientific assessment of free electron laser technology for naval applications The charge from the Office of Naval Research was to assess whether the desired performance capabilities are achievable or whether fundamental limitations will prevent them from being realized The present study identifies the highest priority scientific and technical issues that must be resolved along the development path to achieve a megawatt class free electron laser In accordance with the charge the committee considered and briefly

describes trade offs between free electron lasers and other types of lasers and weapon systems to show the advantages free electron lasers offer over other types of systems for naval applications as well as their drawbacks The primary advantages of free electron lasers are associated with their energy delivery at the speed of light selectable wavelength and all electric nature while the trade offs for free electron lasers are their size complexity and relative robustness Also Despite the significant technical progress made in the development of high average power free electron lasers difficult technical challenges remain to be addressed in order to advance from present capability to megawatt class power levels **Free Electron Lasers 2003** Eisuke J. Minehara,Masaru Sawamura,Ryoichi Hajima,2004-12-01 This book contains the Proceedings of the 25th International Free Electron Laser Conference and the 10th Free Electron Laser Users Workshop which were held on September 8 12 2003 in Tsukuba Ibaraki in Japan Free Electron Lasers 2003 Eisuke J. Minehara,Ryoichi Hajima,Masaru Sawamura,2004-12 This book contains the Proceedings of the 25th International Free Electron Laser Conference and the 10th Free Electron Laser Users Workshop which were held on September 8 12 2003 in Tsukuba Ibaraki in Japan **Free-electron Lasers and Applications** Donald Prosnitz,1990 **A Review of Free Electron Lasers** C. W. Roberson,Phillip Sprangle,1989 **Synchrotron Radiation and Free-Electron Lasers** Kwang-Je Kim,Zhirong Huang,Ryan Lindberg,2017-03-23 Preliminary concepts Synchrotron radiation Basic FEL physics 1D FEL analysis 3D FEL analysis Harmonic generation in high gain FELs FEL oscillators and coherent hard X rays Practical considerations and experimental results for high gain FELs

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