

Valeriy Astapenko

Polarization Bremsstrahlung on Atoms, Plasmas, Nanostructures and Solids

Polarization Bremsstrahlung

Andrey V. Korol, Andrey V. Solov'yov



Polarization Bremsstrahlung:

Polarized Electrons Joachim Kessler, 1985-10 The rapid growth of the subject since the first edition ten years ago has made it necessary to rewrite the greater part of the book Except for the introductory portion and the section on Mott scattering the book has been completely revised In Chap 3 sections on polarization violating reflection symmetry on resonance scattering and on inelastic processes have been added Chapter 4 has been rewritten taking account of the numerous novel results obtained in exchange scattering Chapter 5 includes the recent discoveries on photoelectron polarization produced by unpolarized radiation with unpolarized targets and on Auger electron polarization In Chap 6 a further discussion of relativistic polarization phenomena has been added to the book The immense growth of polarization studies with solids and surfaces required an extension and new presentation of Chap 7 All but one section of Chap 8 has been rewritten and a detailed treatment of polarization analysis has been included Again a nearly comprehensive treatment has been attempted Even so substantial selectivity among the wide range of available material has been essential in order to accomplish a compact presentation The reference list selected along the same lines as in the first edition is meant to lead the reader through the literature giving a guide for finding further references I want to express my indebtedness to a number of people whose help has been invaluable

Polarization Bremsstrahlung V.N. Tsytovich, I.M. Oiringel, 2012-12-06 This book was written by a group of authors and provides a systematic discussion of questions related to bremsstrahlung in many particle systems A number of new results have recently been obtained in this area which require a fundamental revision of the previously existing traditional concepts of bremsstrahlung This applies both to complicated atoms containing a large number of electrons and to the additional bremsstrahlung in a system of many particles forming a medium In fact the traditional approach was rigorously applicable only either to isolated structureless particles e g to the emission of an electron on a proton or to particles radiating in the limit of extremely high frequencies Polarization effects either polarization of an atom itself by an incident particle or polarization of the medium surrounding an atomic particle have a significant effect in the practically important optical and x ray frequency ranges and sometimes even predominate The first effect has come to be known as polarization atomic or dynamic bremsstrahlung and the second as polarization transition bremsstrahlung The authors of this book use a single term polarization bremsstrahlung It seems that in contrast to earlier ideas on the subject bremsstrahlung during collisions of heavy incident particles with atoms is by no means small and is entirely caused by polarization effects

Polarization Bremsstrahlung Andrey V. Korol, Andrey V. Solov'yov, 2014-02-05 This book introduces and reviews both theory and applications of polarizational bremsstrahlung i e the electromagnetic radiation emitted during collisions of charged particles with structured thus polarizable targets such as atoms molecules and clusters The subject following the first experimental evidence a few decades ago has gained importance through a number of modern applications Thus the study of several radiative mechanisms is expected to lead to the design of novel light sources operating in various

parts of the electromagnetic spectrum Conversely the analysis of the spectral and angular distribution of the photon emission constitutes a new tool for extracting information on the interaction of the colliding particles and on their internal structure and dynamical properties Last but not least accurate quantitative descriptions of the photon emission processes determine the radiative energy losses of particles in various media thereby providing essential information required for e g plasma diagnostics as well as astrophysical and medical applications such as radiation therapy This book primarily addresses graduate students and researchers with a background in atomic molecular optical or plasma physics but will also be of benefit to anyone wishing to enter the field Polarization Bremsstrahlung on Atoms, Plasmas, Nanostructures and Solids

Valeriy Astapenko, 2013-01-11 The book is devoted to the modern theory and experimental manifestation of Polarization Bremsstrahlung PB which arises due to scattering of charged particles from various targets atoms nanostructures including atomic clusters nanoparticle in dielectric matrix fullerenes graphene like two dimensional atomic structure and in condensed matter monocrystals polycrystals partially ordered crystals and amorphous matter The present book addresses mainly researchers interested in the radiative processes during the interaction between fast particles and matter It also will be useful for post graduate students specializing in radiation physics and related fields *Plasma Atomic Physics* Frank B. Rosmej, Valery A. Astapenko, Valery S. Lisitsa, 2021-09-06 Plasma Atomic Physics provides an overview of the elementary processes within atoms and ions in plasmas and introduces readers to the language of atomic spectra and light emission allowing them to explore the various and fascinating radiative properties of matter The book familiarizes readers with the complex quantum mechanical descriptions of electromagnetic and collisional processes while also developing a number of effective qualitative models that will allow them to obtain adequately comprehensive descriptions of collisional radiative processes in dense plasmas dielectronic satellite emissions and autoionizing states hollow ion X ray emissions polarized atoms and ions hot electrons charge exchange atomic population kinetics and radiation transport Numerous applications to plasma spectroscopy and experimental data are presented which concern magnetic confinement fusion inertial fusion laser produced plasmas and X ray free electron lasers interaction with matter Particular highlights include the development of quantum kinetics to a level surpassing the almost exclusively used quasi classical approach in atomic population kinetics the introduction of the recently developed Quantum F Matrix Theory QFMT to study the impact of plasma microfields on atomic populations and the Enrico Fermi equivalent photon method to develop the Plasma Atom where the response properties and oscillator strength distribution are represented with the help of a local plasma frequency of the atomic electron density Based on courses held by the authors this material will assist students and scientists studying the complex processes within atoms and ions in different kinds of plasmas by developing relatively simple but highly effective models Considerable attention is paid to a number of qualitative models that deliver physical transparency while extensive tables and formulas promote the practical and useful application of complex theories and provide effective tools for non specialist readers

Electron-Photon Interaction in Dense Media Helmut Wiedemann, 2012-12-06 A comprehensive survey of recent theoretical and experimental progress in the area of electron photon interaction and dense media A state of the art discussion of radiation production with descriptions of new ideas and technologies that enhance the production of X rays in the form of channelling transition and parametric X ray production Progress in electron beam physics to produce sub picosecond electron bunches from low energy linear accelerators make it possible to produce coherent high brightness submillimeter radiation and sub picosecond X ray pulses Micro undulators in the form of bent crystalline structures hold great promise as future X ray sources **Library of Congress Subject Headings** Library of Congress, 2012 **Atomic Processes in Basic and Applied Physics** Viacheslav Shevelko, Hiro Tawara, 2012-05-31 The book is a comprehensive edition which considers the interactions of atoms ions and molecules with charged particles photons and laser fields and reflects the present understanding of atomic processes such as electron capture target and projectile ionisation photoabsorption and others occurring in most of laboratory and astrophysical plasma sources including many photon and many electron processes The material consists of selected papers written by leading scientists in various fields Photons in Natural and Life Sciences Hans-Joachim Lewerenz, 2013-01-22 The book describes first the principle photon generation processes from nuclear reactions electron motion and from discrete quantum transitions It then focuses on the use of photons in various selected fields of modern natural and life sciences It bridges disciplines such as physics chemistry earth and materials science proteomics information technology photoelectrochemistry photosynthesis and spintronics Advanced light sources and their use in natural and life sciences are emphasized and the effects related to the quantum nature of photons quantum computing teleportation are described The content encompasses among many other examples the role of photons on the origin of life and on homochirality in biology femtosecond laser slicing photothermal cancer therapy the use of gamma rays in materials science photoelectrochemical surface conditioning quantum information aspects and photo spintronics The book is written for scientists and graduate students from all related disciplines who are interested in the science beyond their immediate research field It is meant to encourage interdisciplinary research and development in an age where nanoscience results in a convergence of formerly more disparate science Reviews of Plasma Physics Vitaly D. Shafranov, 2012-12-06 Reviews of Plasma Physics Volume 23 presents two high quality reviews from the cutting edge of Russian plasma physics research Plasma Models of Atom and Radiative Collisional Processes by V A Astapenko L A Bureyeva V S Lisitsa is devoted to a unified description of the atomic core polarization effects in the free free free bound and bound bound transitions of the charged particles in the field of multielectron atom Asymptotic Theory of Charge Exchange And Mobility Processes for Atomic Ions by B M Smirnov reviews the process of resonant charge exchange and also the transport processes mobility and diffusion coefficients for ions in parent gases which are determined by resonant electron transfer **Handbook of X-Ray Data** Günter H. Zschornack, 2007-01-24 This is the only handbook available on X ray data In a

concise and informative manner the most important data connected with the emission of characteristic X ray lines are tabulated for all elements up to Z 95 Americium The tabulated data are characterized and in most cases evaluated Furthermore all important processes and phenomena connected with the production emission and detection of characteristic X rays are discussed *Diffraction Radiation from Relativistic Particles* Alexander Potylitsyn, Mikhail Ivanovich Ryazanov, Mikhail Nikolaevich Strikhanov, Alexey Alexandrovich Tishchenko, 2010-10-11 This book deals with diffraction radiation which implies the boundary problems of electromagnetic radiation theory Diffraction radiation is generated when a charged particle moves near a target edge at a distance Lorentz factor wave length Diffraction radiation of non relativistic particles is widely used to design intense emitters in the cm wavelength range Diffraction radiation from relativistic charged particles is important for noninvasive beam diagnostics and design of free electron lasers based on Smith Purcell radiation which is diffraction radiation from periodic structures Different analytical models of diffraction radiation and results of recent experimental studies are presented in this book The book may also serve as guide to classical electrodynamics applications in beam physics and electrodynamics It can be of great use for young researchers to develop skills and for experienced scientists to obtain new results *Plasma Physics Reports*, 2002 Publishes papers on plasma physics The journal covers the following topics high temperature plasma physics connected with the problem of controlled nuclear fusion based on magnetic and inertial confinement physics of cosmic plasma including magnetosphere plasma sun and stellar plasma etc gas discharge plasma and plasma generated by laser and particle beams *Nuclear Science Abstracts*, 1974

Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office, 2009 **Advances in Atomic, Molecular, and Optical Physics**, 1994-07-26 The latest volume in the highly acclaimed series addresses atomic collisions assessing the status of the current knowledge identifying deficiencies and exploring ways to improve the quality of cross section data Eleven articles written by foremost experts focus on cross section determination by experiment or theory on needs in selected applications and on efforts toward the compilation and dissemination of data This is the first volume edited under the additional direction of Herbert Walther Presents absolute cross sections for atomic collisions Uses benchmark measurements and benchmark calculations Discusses needs for cross section data in applications Contains a guide to data resources bibliographies and compendia *The Elementary Process of Bremsstrahlung* Eberhard Haug, Werner Nakel, 2004 This book deals with the theory and experiment of the elementary process of bremsstrahlung where photons are detected in coincidence with decelerated outgoing electrons Such experiments allow for a more stringent check of the theoretical work The main emphasis is laid on electron atom bremsstrahlung and electron electron bremsstrahlung but further bremsstrahlung processes are also dealt with In the theoretical parts triply differential cross sections are derived in various approximations including electron spin and photon polarization In the experimental sections electron photon coincidence experiments are discussed These are done partly with transversely polarized electron beams and

partly with detectors for the bremsstrahlung linear polarization *Laser Physics* ,2002 **Advanced Monte Carlo for Radiation Physics, Particle Transport Simulation and Applications** Andreas Kling,Fernando J.C. Barao,Masayuki Nakagawa,Luis Tavora,Pedro Vaz,2014-02-22 This book focusses on the state of the art of Monte Carlo methods in radiation physics and particle transport simulation and applications the latter involving in particular the use and development of electron gamma neutron gamma and hadronic codes Besides the basic theory and the methods employed special attention is paid to algorithm development for modeling and the analysis of experiments and measurements in a variety of fields ranging from particle to medical physics **Computation of Atomic and Molecular Processes** Miron Ya. Amusia,Larissa V. Chernysheva,2021-12-02 This book presents numerical methods for solving a wide range of problems associated with the structure of atoms and simplest molecules and their interaction with electromagnetic radiation electrons and other particles It introduces the ATOM M software package presenting a unified software suite written in Fortran for carrying out precise atomic and molecular numeric calculations The book shows how to apply these numerical methods to obtain many different characteristics of atoms molecules and the various processes within which they interact In an entirely self sufficient approach it teaches the reader how to use the codes provided to build atomic and molecular systems from the ground up and obtain the resulting one electron wave functions The computational programs presented and made available in this book allow calculations in the one electron Hartree Fock approximation and take into account many electron correlations within the framework of the random phase approximation with exchange or many body perturbation theory Ideal for scholars interested in numerical computation of atomic and molecular processes the material presented in this book is useful to both experts and novices theorists and experimentalists

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