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this monograph deals with ion induced electron emission from crystalline solids bombarded by fast ions during the past decade electron spectroscopy combined with the ion channeling technique has revealed various messages about ion solid and electron solid interactions carried by the emitted electrons while the ion induced electrons produced by binary encounter processes are of primary interest in this book closely related topics such as the emission of ion induced auger electrons from crystal targets are also reviewed with emphasis on their interdisciplinary aspects for example their relation to photoelectron diffraction in addition to these topics the book describes the underlying physics and experimental

techniques so that it should provide useful information for students and scientists working in ion beam based research and development in various areas of atomic and solid state physics materials science surface science etc i am much indebted to the generations of students who have passed through my laboratory since they have stimulated me with elementary but essential questions in various phases of the studies i am also grateful to t azuma y kido k kimura h naramoto and s seki for critical reading of the manuscript tsukuba august 2001 hiroshi kudo contents introduction 1 1o terminology and table of symbols 5 2 2 1 notes on terminology 5 2 2 frequently used symbols 6 3 binary encounter electron emission 7 3 1 ion electron elastic collisions 7 3 2 recoil cross section of orbital electrons the book provides a review of the hadronic final state measurements at hera in deep inelastic scattering it covers general event properties particle spectra heavy flavours jets event shape measurements qcd instantons and small x physics the emphasis is on experimental results providing quick access to the data complete up to fall 1997 for reference the results are discussed in the context of qcd this book contains comprehensive reviews of modern topics in nuclear physics particle physics astrophysics and cosmology special emphasis is placed on the role of several symmetries in physics at intermediate and high energies and on neutrino physics with its implications in nuclear astrophysics and cosmology many applications of the theories and experiments are included along with interesting information on recent

developments with respect to current problems in modern physics thus it will be especially useful to new scientists and graduate students this book reviews all the state of the art simulation methods used to investigate the atomistic scale properties of technologically important oxide materials previous and many recent results are carefully discussed the handbook of feynman path integrals appears just fifty years after richard feynman published his pioneering paper in 1948 entitled space time approach to non relativistic quantum mechanics in which he introduced his new formulation of quantum mechanics in terms of path integrals the book presents for the first time a comprehensive table of feynman path integrals together with an extensive list of references it will serve the reader as a thorough introduction to the theory of path integrals as a reference book it is unique in its scope and will be essential for many physicists chemists and mathematicians working in different areas of research the first five years of operation of the two multi purpose experiments zeus and h1 at the hera electron proton storage ring facility in hamburg germany have opened a new era in the study of diffractive vector meson production in high energy photon proton interactions this book provides readers who have a general knowledge of the concepts and experimental techniques of elementary particle physics with the information necessary to assess the status of the new investigations prior to the end of 1996 the measurements are placed in the rich historical context of earlier studies of photo and leptoproduction of vector mesons

granular materials are an integral part of our everyday life they are also the base material for most industrial processing techniques the highly dissipative nature of the particle collisions means energy input is needed in order to mobilize the grains this interplay of dissipation and excitation leads to a wide variety of pattern formation processes which are addressed in this book the reader is introduced to this wide field by first a description of the material properties of granular materials under different experimental conditions that are important in connection with the pattern formation dynamics and second by further details given later on in the description of the specific system the knowledge of the interactions of photons with hadrons has considerably improved with the study of high energy lepton proton collisions at hermes the results on the partonic interactions of photons are summarized in comparison with photon nucleon two photon and proton antiproton experiments this book is devoted to dispersion theory in linear and nonlinear optics dispersion relations and methods of analysis in optical spectroscopy are derived with the aid of complex analysis the book introduces the mathematical basis and derivations of various dispersion relations that are used in optical spectroscopy in addition it presents the dispersion theory of the nonlinear optical processes which are essential in modern optical spectroscopy the book includes new methods such as the maximum entropy model for wavelength dependent spectra analysis the book presents an overview on important aspects of ion irradiation of surfaces emphasizing low impact

energies specifically ion penetration and implantation into solids defect creation and amorphization of semiconductors sputtering of elemental and multicomponent targets and ionization processes of emitted species are discussed it provides a synoptic view of these phenomena which are strongly interrelated by the same basic processes but are often described separately and in diverging terminology the book tries to bridge this gap summarizing results from experiments computer simulations and theoretical approaches the book describes rheed reflection high energy electron diffraction used as a tool for crystal growth new methods using rheed to characterize surfaces and interfaces during crystal growth by mbe molecular beam epitaxy are presented special emphasis is put on rheed intensity oscillations segregation phenomena electron energy loss spectroscopy and rheed with rotating substrates

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this monograph deals with ion induced electron emission from crystalline solids bombarded by fast ions during the past decade electron spectroscopy combined with the ion channeling technique has revealed various messages about ion solid and electron solid interactions carried by the emitted electrons while the ion induced electrons produced by binary encounter processes are of primary interest in this book closely related topics such as the emission of ion induced auger electrons from crystal targets are also reviewed with emphasis on their interdisciplinary aspects for example their relation to photoelectron diffraction in addition to these topics the book describes the underlying physics and experimental techniques so that it should provide useful information for students and scientists working in ion beam based research and development in various areas of atomic and solid state physics materials science surface science etc i am much indebted to the generations of students who have passed through my laboratory since they have stimulated me with elementary but essential questions in various phases of the studies i am also grateful to t azuma y kido k kimura h naramoto and s seki for critical reading of the manuscript tsukuba august 2001 hiroshi kudo contents introduction 1 1o terminology and table of symbols 5 2 2 1 notes on terminology 5 2 2 frequently used symbols 6 3 binary encounter electron emission 7 3 1 ion electron elastic collisions 7 3 2 recoil cross section of

orbital electrons

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the book provides a review of the hadronic final state measurements at hermes in deep inelastic scattering it covers general event properties particle spectra heavy flavours jets event shape measurements qcd instantons and small x physics the emphasis is on experimental results providing quick access to the data complete up to fall 1997 for reference the results are discussed in the context of qcd

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this book contains comprehensive reviews of modern topics in nuclear physics particle physics astrophysics and cosmology special emphasis is placed on the role of several symmetries in physics at intermediate and high energies and on neutrino physics with its implications in nuclear astrophysics and cosmology many applications of the theories and experiments are included along with interesting information on recent developments with respect to current problems in modern physics thus it will be especially useful to new scientists and graduate students

Springer Tracts in Modern Physics *2014-03-12*

this book reviews all the state of the art simulation methods used to investigate the atomistic scale properties of technologically important oxide materials previous and many recent results are carefully discussed

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2014-01-15

the handbook of feynman path integrals appears just fifty years after richard feynman published his pioneering paper in 1948 entitled space time approach to non relativistic quantum mechanics in which he introduced his new formulation of quantum mechanics in terms of path integrals the book presents for the first time a comprehensive table of feynman path integrals together with an extensive list of references it will serve the reader as a thorough introduction to the theory of path integrals as a reference book it is unique in its scope and will be essential for many physicists chemists and mathematicians working in different areas of research

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and h1 at the hera electron proton storage ring facility in hamburg germany have opened a new era in the study of diffractive vector meson production in high energy photon proton interactions this book provides readers who have a general knowledge of the concepts and experimental techniques of elementary particle physics with the information necessary to assess the status of the new investigations prior to the end of 1996 the measurements are placed in the rich historical context of earlier studies of photo and leptoproduction of vector mesons

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this book is devoted to dispersion theory in linear and nonlinear optics dispersion relations and methods of analysis in optical spectroscopy are derived with the aid of complex analysis the book introduces the mathematical basis and derivations of various dispersion relations that are used in optical spectroscopy in addition it presents the dispersion theory of the nonlinear optical processes which are essential in modern optical spectroscopy the book includes new methods such as the maximum entropy model for wavelength dependent spectra analysis

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the book presents an overview on important aspects of ion irradiation of surfaces emphasizing low impact energies specifically ion penetration and implantation into solids defect creation and amorphization of

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