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the knowledge of the interactions of photons with hadrons has considerably improved with the study of high energy lepton proton collisions at her a the results on the partonic interactions of photons are summarized in comparison with photon nucleon two photon and proton antiproton experiments

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a rational study of kinematics is a treatment of the subject based on invariants i e quantities that remain essentially unchanged under a change of observer an observer is understood to be a reference frame supplied with a clock truesdell 1966 this study will therefore include an introduction to invariants the language of these is tensor analysis and multilinear algebra both of which share many isomorphic relations these subjects are treated in full detail in ericksen 1960 and bowen and wang 1976 and hence will not be included here only a short account of notation and definitions will be presented moreover definitions and basic concepts pertaining to the kinematics of rigid bodies will be also included although the kinematics of rigid bodies can be regarded as a particular case of the kinematics of continua the former deserves attention on its own merits for several reasons one of these is that it describes locally the motions undergone by continua another reason is that a whole area of mechanics known as classical dynamics is the study of the motions undergone by particles rigid bodies and systems thereof

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this new edition features numerous updates and additions especially 4 new chapters on fiber optics integrated optics frequency combs and interferometry reflect the changes since the first edition in addition major complete updates for the chapters optical materials and their properties optical detectors nanooptics and optics far beyond the diffraction limit features contains over 1000 two color illustrations includes over 120 comprehensive tables with properties of optical materials and light sources emphasizes physical concepts over extensive mathematical derivations chapters with summaries detailed index delivers a wealth of up to date references

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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

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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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this handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such metals semiconductors insulators ultrathin films and supported nanoobjects over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research these include but are not limited to novel applications in nanoelectronics nanomechanical devices plasmonics carbon films catalysis and biology the handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

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this book features reviews by leading experts on the methods and applications of modern forms of microscopy the recent awards of nobel prizes awarded for super resolution optical microscopy and cryo electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies earlier nobel prizes for electron microscopy the instrument itself and applications to biology scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science from the study of nanostructures in materials science physics and chemistry to structural biology separate chapters are devoted to confocal fluorescent and related novel optical microscopies coherent diffractive imaging scanning probe microscopy transmission electron microscopy in all its modes from aberration corrected and analytical to in situ and time resolved low energy electron microscopy photoelectron microscopy cryo electron microscopy in biology and also ion microscopy in addition to serving as an essential reference for researchers and teachers in the fields such as materials science condensed matter physics solid state chemistry structural biology and the molecular sciences generally the springer handbook of microscopy is a unified coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy

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this handbook incorporates new developments in automation it also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics the handbook is not only an ideal resource for automation experts but also for people new to this expanding field

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comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data from atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as bose einstein condensation quantum information and cosmological variations of the fundamental constants a fully searchable cd rom version of the contents accompanies the handbook

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