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# Fundamental Physics in Particle Traps



Springer

# Springer Tracts In Modern Physics Volume 79

## Elementary Particle Physics

**E Durkheim**



## **Springer Tracts In Modern Physics Volume 79 Elementary Particle Physics:**

Elementary Particle Physics ,2006-01-25    Springer Tracts in Modern Physics ,1979    *Springer Tracts in Modern Physics* G. Höhler,2006-04-11    *Giant Resonance Phenomena in Intermediate Energy Nuclear Reactions* F. Cannata,H. Überall,2006-01-26    **Neutron Physics** ,2006-04-11    **Unification and Supersymmetry** Rabindra N. Mohapatra,2013-06-29 The theoretical understanding of elementary particle interactions has undergone a revolutionary change during the past one and a half decades The spontaneously broken gauge theories which in the 1970s emerged as a prime candidate for the description of electro weak as well as strong interactions have been confirmed by the discovery of neutral weak currents as well as the  $W$  and  $Z$  bosons We now have a field theory of electro weak interactions at energy scales below 100 GeV the Glashow Weinberg Salam theory It is a renormalizable theory which enables us to do calculations without encountering unnecessary divergences The burning question now is What lies ahead at the next level of unification As we head into the era of supercolliders and ultrahigh energy machines to answer this question many appealing possibilities exist left right symmetry technicolor compositeness grand unification supersymmetry supergravity Kaluza Klein models and most recently superstrings that even unify gravity along with other interactions Experiments will decide if any one or any combination of these is to be relevant in the description of physics at the higher energies As an outcome of our confidence in the possible scenarios for elementary particle physics we have seen our understanding of the early universe improve significantly    Solid Surface Physics ,2006-04-11    Electronic Structure of Noble Metals and Polariton-Mediated Light Scattering B. Bendow,2006-04-11    *Collective Ion Acceleration* ,2006-04-11    **Pion-Electroproduction** Edoardo Amaldi,Sergio Fubini,Giuseppe Furlan,2006-04-11    *Point Defects in Metals II* ,2006-04-11    **A Guide to Data in Elementary Particle Physics** G. P. Yost,Lawrence Berkeley Laboratory. Particle Data Group,1986    **Physics in Canada** ,1977    **Jets of Hadrons** Werner Hofmann,2006-04-11    *Surface Enhanced Raman Vibrational Studies at Solid Gas Interfaces* I. Pockrand,2006-01-31    *Transport of Energetic Electrons in Solids* Maurizio Dapor,2014-02-18 This book presents the potential of the Monte Carlo MC technique to solve mathematical and physical problems of great complexity This book focusses on the study of the electron solid interaction transport MC and presents some physical problems related to the transport of hot electrons in solid targets using transport MC The numerical and theoretical results are validated through a comparison with experimental results The author also addresses methodological aspects In particular systematic comparisons among different calculation schemes are presented Different expressions for the calculation of cross sections and or stopping power and different simulation methods are described and discussed    **Heavily-Doped 2D-Quantized Structures and the Einstein Relation** Kamakhya P. Ghatak,Sitangshu Bhattacharya,2014-07-30 This book presents the Einstein Relation ER in two dimensional 2 D Heavily Doped HD Quantized Structures The materials considered are quantized structures of HD non linear optical III V II VI Ge Te Platinum Antimonide stressed materials GaP Gallium Antimonide II V

Bismuth Telluride together with various types of HD superlattices and their Quantized counterparts respectively The ER in HD opto electronic materials and their nanostructures is studied in the presence of strong light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum effect devices The suggestion for the experimental determination of HD 2D and 3D ERs and the importance of measurement of band gap in HD optoelectronic materials under intense built in electric field in nanodevices and strong external photo excitation for measuring photon induced physical properties are also discussed in this context The influence of crossed electric and quantizing magnetic fields on the ER of the different 2D HD quantized structures quantum wells inversion and accumulation layers quantum well HD superlattices and nipi structures under different physical conditions is discussed in detail This monograph contains 100 open research problems which form the integral part of the text and are useful for both Ph D aspirants and researchers in the fields of condensed matter physics solid state sciences materials science nano science and technology and allied fields

Debye Screening Length Kamakhya Prasad Ghatak, Sitangshu Bhattacharya, 2013-11-05 This monograph solely investigates the Debye Screening Length DSL in semiconductors and their nano structures The materials considered are quantized structures of non linear optical III V II VI Ge Te Platinum Antimonide stressed materials Bismuth GaP Gallium Antimonide II V and Bismuth Telluride respectively The DSL in opto electronic materials and their quantum confined counterparts is studied in the presence of strong light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum effect devices The suggestions for the experimental determination of 2D and 3D DSL and the importance of measurement of band gap in optoelectronic materials under intense built in electric field in nano devices and strong external photo excitation for measuring photon induced physical properties have also been discussed in this context The influence of crossed electric and quantizing magnetic fields on the DSL and the DSL in heavily doped semiconductors and their nanostructures has been investigated This monograph contains 150 open research problems which form the integral part of the text and are useful for both PhD students and researchers in the fields of solid state sciences materials science nano science and technology and allied fields in addition to the graduate courses in modern semiconductor nanostructures

**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

**The Thermoballistic Transport Model** Reinhard Lipperheide,Uwe Wille,2014-05-09

The book presents a comprehensive survey of the thermoballistic approach to charge carrier transport in semiconductors This semi classical approach which the authors have developed over the past decade bridges the gap between the opposing drift diffusion and ballistic models of carrier transport While incorporating basic features of the latter two models the physical concept underlying the thermoballistic approach constitutes a novel unifying scheme It is based on the introduction of ballistic configurations arising from a random partitioning of the length of a semiconducting sample into ballistic transport intervals Stochastic averaging of the ballistic carrier currents over the ballistic configurations results in a position dependent thermoballistic current which is the key element of the thermoballistic concept and forms the point of departure for the calculation of all relevant transport properties In the book the thermoballistic concept and its implementation are developed in great detail and specific examples of interest to current research in semiconductor physics and spintronics are worked out

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