Numerical Simulation Of Submicron Semiconductor Devices Artech House Materials Science Library

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materials science and engineering theme is a component of encyclopedia of physical sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias materials science and engineering is concerned with the development and selection of the best possible material for a particular engineering task and the determination of the most effective method of producing the materials and the component the theme with contributions from distinguished experts in the field discusses materials science and engineering in this theme the history of materials is traced and the concept of structure atomic structure microstructure and defect structure and its relationship to properties developed the theme is structured in five main topics materials science and engineering optimization of materials properties structural and functional materials materials processing and manufacturing technologies detection of defects and assessment of serviceability materials of the future which are then expanded into multiple subtopics each as a chapter these three volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

the electrical engineer s handbook is an invaluable reference source for all practicing electrical engineers and students encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students this text will most likely be the engineer s first choice in looking for a solution extensive complete references to other sources are provided throughout no other book has the breadth and depth of coverage available here this is a must have for all practitioners and students the electrical engineer s handbook provides the most up to date information in circuits and networks electric power systems electronics computer aided design and optimization vlsi systems signal processing digital systems and computer engineering digital communication and communication networks electromagnetics and control and systems about the editor in chief wai kai chen is professor and head emeritus of the department of electrical engineering and computer science at the university of illinois at chicago he has extensive experience in education and industry and is very active professionally in the fields of circuits and systems he was editor in chief of the ieee transactions on circuits and systems series i and ii president of the ieee circuits and systems society and is the founding editor and editor in chief of the journal of circuits systems and computers he is the recipient of the golden jubilee medal the education award and the meritorious service award from the ieee circuits and systems society and the third millennium medal from the ieee professor chen is a fellow of the ieee and the american association for the advancement of science 77 chapters encompass the entire field of electrical engineering thousands of valuable figures tables formulas and definitions extensive bibliographic references

ground penetrating radar gpr is a rapidly developing field that has seen tremendous progress over the past 15 years the development of gpr spans aspects of geophysical science technology and a wide range of scientific and engineering applications it is the breadth of applications that has

made gpr such a valuable tool in the geophysical consulting and geotechnical engineering industries has lead to its rapid development and inspired new areas of research in academia the topic of gpr has gone from not even being mentioned in geophysical texts ten years ago to being the focus of hundreds of research papers and special issues of journals dedicated to the topic the explosion of primary literature devoted to gpr technology theory and applications has lead to a strong demand for an up to date synthesis and overview of this rapidly developing field because there are specifics in the utilization of gpr for different applications a review of the current state of development of the applications along with the fundamental theory is required this book will provide sufficient detail to allow both practitioners and newcomers to the area of gpr to use it as a handbook and primary research reference review of gpr theory and applications by leaders in the field up to date information and references effective handbook and primary research reference for both experienced practitioners and newcomers

a practical in depth description of the physics behind electron emission physics and its usage in science and technology electron emission is both a fundamental phenomenon and an enabling component that lies at the very heart of modern science and technology written by a recognized authority in the field with expertise in both electron emission physics and electron beam physics an introduction to electron emission provides an in depth look at the physics behind thermal field photo and secondary electron emission mechanisms how that physics affects the beams that result through space charge and emittance growth and explores the physics behind their utilization in an array of applications the book addresses mathematical and numerical methods underlying electron emission describing where the equations originated how they are related and how they may be correctly used to model actual sources for devices using electron beams writing for the beam physics and solid state communities the author explores applications of electron emission

methodology to solid state statistical and quantum mechanical ideas and concepts related to simulations of electron beams to condensed matter solid state and fabrication communities provides an extensive description of the physics behind four electron emission mechanisms field photo and secondary and how that physics relates to factors such as space charge and emittance that affect electron beams introduces readers to mathematical and numerical methods their origins and how they may be correctly used to model actual sources for devices using electron beams demonstrates applications of electron methodology as well as quantum mechanical concepts related to simulations of electron beams to solid state design and manufacture designed to function as both a graduate level text and a reference for research professionals introduction to the physics of electron emission is a valuable learning tool for postgraduates studying quantum mechanics statistical mechanics solid state physics electron transport and beam physics it is also an indispensable resource for academic researchers and professionals who use electron sources model electron emission develop cathode technologies or utilize electron beams

micro miniaturization in electronics a necessity for personal communications devices like cell phones and pdas has radically altered the materials these electronics are made from this new edition the first update of the handbook since 1993 is a complete rewrite reflecting the great importance of engineering materials for thermal management and flexibility and microminiature sizes and will be an invaluable tool to anyone working in electronic packaging fabrication or assembly design all new a complete rewrite of the previous edition details and characterizes every major material type allowing engineers to make accurate cost effective design choices full materials breakdown for high density packaging techniques materials for communications wiring and cabling

this book describes the fundamentals of thz communications spanning the whole range of

applications propagation and channel models rf transceiver technology antennas baseband techniques and networking interfaces the requested data rate in wireless communications will soon reach from 100 gbit s up to 1 tbps necessitating systems with ultra high bandwidths of several 10s of ghz which are available only above 200 ghz in the last decade research at these frequency bands has made significant progress enabling mature experimental demonstrations of so called thz communications which are thus expected to play a vital role in future wireless networks in addition to chapters by leading experts on the theory modeling and implementation of thz communication technology the book also features the latest experimental results and addresses standardization and regulatory aspects this book will be of interest to both academic researchers and engineers in the telecommunications industry

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