Engineering Physics S K Gupta

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A Textbook of Engineering Physics
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Polyethylene-Based Blends, Composites and Nanocomposities
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A New Theory of Physics
Krishna's Industrial Economics & Principles of Management
Engineering Physics: Vol. 1
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Krishina's Engineering Physics; Volume III; Optics; 2001
Engineering Mathematics
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Human Values & Professional Ethics
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The World of Learning 2001

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Springer
This issue of ECS Transactions focuses on those characteristics of nanoscale materials that relate to their luminescence properties. Topics covered include the effects of quantum confinement, the role of surface states, loss mechanisms,

methods to improve luminescence efficiency, bulk vs. nanoparticle luminescence, the role of phonons in nanomaterials , nanophosphor s for biophotonics and biomarkers, nanoparticles for light emitting diodes, and nanophosphor s for traditional phosphor applications.
Advanced VLSI Design and Testability Issues John Wiley & Sons
A Txtbook of Engineering Physics is written with two distinct objectives:to provied a single source of information for engineering undergraduat es of different specializations and provied them a solid base in physics.Succe ssivs editions of the book incorporated topic as required by students pursuing their studies in various universities.In this new edition the contents are fine-tuned,modeini zed and updated at various stages.
Neo-Classical Physics or Quantum Mechanics?
Bentham Science Publishers
Completely up-to-date, this is the first comprehensiv e monograph on metal oxide varistors with a focus on microstructure , conduction mechanisms, device failures, ageing, additive impacts and future varistor systems. As such, it covers the

fundamentals and applications of metal oxide varistors, including their macro-characteristics, microstructural properties and the device-internal physical and electrical mechanisms. The author reflects on the achievements made in varistor research and propose new approaches to analyze and predict the macro-characteristics, employing such methods as micro-contact measurements and numerical simulations. In addition, he looks at future directions for varistor research, such as ZnO varistors with a high voltage gradient and low residual voltage and further varistor types based on TiO2 and SnO2.

A TEXT BOOK OF ENGINEERING PHYSICS

Engineering Physics for BSc and BE StudentsEngineering Physics: Vol. 1

Oxynitride thin film technology is rapidly impacting a broad spectrum of applications, ranging from decorative functions (through optoelectronics) to corrosion resistance. Developing a better understanding of the relationships between deposition processes, structure and composition of the deposited films is critical to the continued evolution of these applications. This e-book provides

valuable information about the process modeling, fabrication and characterization of metallic oxynitride-based thin films produced by reactive sputtering and some related deposition processes. Its contents are spread in twelve main and concise chapters through which the book thoroughly reviews the bases of oxynitride thin film technology and deposition processes, sputtering processes and the resulting behaviors of these oxynitride thin films. More importantly, the solutions for the growth of oxynitride technology are given in detail with an emphasis on some particular compounds. This is a valuable resource for academic learners studying materials science and industrial coaters, who are concerned not only about fundamental aspects of oxynitride synthesis, but also by their innate material characteristics .

Advanced Thermoelectrics Krishna Prakashan Media

The material of this book will derive its scientific under-pinning from basics of mathematics, physics, chemistry, geology, meteorology, engineering, soil science, and related disciplines and will provide sufficient breadth and depth of understanding

in each sub-section of hydrology. It will start with basic concepts: Water, its properties, its movement, modelling and quality The distribution of water in space and time Water resource sustainability Chapters on 'global change' and 'water and ethics' aim respectively to emphasize the central role of hydrological cycle and its quantitative understanding and monitoring for human well being and to familiarize the readers with complex issues of equity and justice in large scale water resource development process. Modern Hydrology for Sustainable Development is intended not only as a textbook for students in earth and environmental science and civil engineering degree courses, but also as a reference for professionals in fields as diverse as environmental planning, civil engineering, municipal and industrial water supply, irrigation and catchment management. *The Institutes of Higher Learning* Springer The expansion of carbon materials is multidisciplinary and is related to physics, chemistry, biology, applied sciences and engineering. The research on carbon materials has mostly focused on aspects of fundamental physics as

they unique electrical, thermal and mechanical properties applicable for the range of applications. The electrons in graphene and other derived carbon materials behave as dirac fermions due to their interaction with the ions of the lattice. This direction has led to the discovery of new phenomena such as Klein tunneling in carbon based solid state systems and the so-called half-integer quantum Hall effect. Advanced Carbon Materials and Technology presents cutting-edge chapters on the processing, properties and technological developments of graphene, carbon nanotubes, carbon fibers, carbon particles and other carbon based structures including multifunctional graphene sheets, graphene quantum dots, bulky balls, carbon balls, and their polymer composites. This book brings together respected international scholars writing on the innovative methodologies and strategies adopted in carbon materials research area including Synthesis, characterization and functionalization of carbon nanotubes and graphene Surface modification of graphene Carbon based nanostructured materials Graphene and carbon

nanotube based electrochemical (bio)sensors for environmental monitoring Carbon catalysts for hydrogen storage materials Optical carbon nanoobjects Graphene and carbon nanotube based biosensors Carbon doped cryogel films Bioimpact of carbon nanomaterials Photocatalytic nature of carbon nanotube based composites Engineering behavior of ash fills Fly ash syntactic foams microstructure

Additive Manufacturing Handbook

John Wiley & Sons

Engineering Physics is designed as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

Krishna's Engineering Mechanics

Krishna Prakashan Media

First published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

A Textbook of Engineering Physics

Uttkarsh Prakashan

This book is the first of 2 special volumes dedicated to the memory of Gérard

Maugin. Including 40 papers that reflect his vast field of scientific activity, the contributions discuss non-standard methods (generalized model) to demonstrate the wide range of subjects that were covered by this exceptional scientific leader. The topics range from micromechanical basics to engineering applications, focusing on new models and applications of well-known models to new problems. They include micro–macro aspects, computational endeavors, options for identifying constitutive equations, and old problems with incorrect or non-satisfying solutions based on the classical continua assumptions.

Indian National Bibliography

CRC Press

Dear students, I am extremely happy to come out with the first edition of "Engineering physics" for you. The topics within the chapters have been arranged in a proper sequence to ensure smooth flow of the subject. I am sure that this book will complete all your needs for this subject. I am thankful to Dr Sudhir Kumar (CCS Univ.Meerut), Shri Naresh Kumar (Registrar, Govt. Engg. College Chandpur Bijnor), Dr R.K.Shukla (Prof.& Head) Department of Physics

Harcort Buttlar Technical University Kanpur (up), Dr B.P.Singh (Prof.& Head) Department of Physics Institute of basic science khandari campus Agra,Dr Ashok Kumar (Prof.& Ex.Dirctor) HBTU Kanpur, Dr Satendra Sharma (Prof. & Dean in science) Yobe State University Naizariya, Dr Pradeep Kumar (Principal) DAV (PG) Budhana Muzzarfarnagar up, Dr Satyavir Singh (Asso.Prof.& Head) Dept.of Chemistry DAV(PG) Budhana M.Nagar,Dr P.S.Negi (Prof.& Head) Meerut College Meerut, Prof. Ankit Kumar Dept.of Civil REC Bijnor, Prof.Sudhir Goswami Deptt..of IT REC Bijnor,Dr Pravesh Kumar, Asst.Prof.REC Bijnor, Dr Hemant Kumar,Asst.Prof Deptt. Of Physics, REC Bijnor, Dr Anjani Kumar IIT Kanpur Deptt..of Physics,Dr S.K Sharma Professor of Physics HBTU Kanpur,Er K.K.Singh (Er.RBI Patna),Er Sandeep Maheswary (Offset Printing Press) Software Er Vinay Baghel, Netherland, Dr V K Gupta (Prof. Physics) Dr Anil Kumar Sharma (Prof .Botany), Dr O.P.Singh (Prof .Botany), Dr Vikas Katoch (Prof & Head) Deptt..of Physics RKGIT Ghazibad,Dr Sangeeta Chaudhary (Prof.& Head) Deptt..of Sancrite DAV (PG) Budhana

M.Nagar, Dr R.Jha (Prof.&Head) Sky Line Institute Greater Noida,Elder Brother Shri R.P. Singh (Railway Engg. Deptt.), Yonger Brother K.P Singh, Prof. Ajay Kumar Yadav Computer science deptt. Pune .and all my dear students. I am also thankful to the staff members of Uttakarsh Publication and others for theirs effects to make this book as good as it is. I am also thankful to my Family members and relatives for their Patience and encouragement. Autrhor *Career Education in India* CRC Press

This book focuses on the latest applications of nonlinear approaches in engineering and addresses a range of scientific problems. Examples focus on issues in automotive technology, including automotive dynamics, control for electric and hybrid vehicles, and autodriver algorithm for autonomous vehicles. Also included are discussions on renewable energy plants, data modeling, driver-aid methods, and low-frequency vibration. Chapters are based on invited contributions from world-class experts who advance the future of engineering by discussing the development of more optimal, accurate, efficient, cost,

and energy effective systems. This book is appropriate for researchers, students, and practising engineers who are interested in the applications of nonlinear approaches to solving engineering and science problems. Presents a broad range of practical topics and approaches; Explains approaches to better, safer, and cheaper systems; Emphasises automotive applications, physical meaning, and methodologies .

Polyethylene-Based Blends, Composites and Nanocomposities Atlantic Publishers & Dist

Continuing the tradition of the best selling textbooks, this first edition “Engineering Thermodynamics” is a comprehensive reference to the broad spectrum of thermodynamics, encapsulating the theoretical and practical aspects of the field. The author addresses a myriad of topics, covering both traditional and innovative approaches. Additionally, the book includes numerous tables

Nanoscale Luminescent Materials Mittal Publications

There is an uncanny resemblance between Christianity in the middle ages and Physics in the twenty-first century. Formerly, the common man could neither

read nor understand the scriptures, as they were written in Latin; the clergy had to interpret the scriptures for the laity with predictable results. Physics in the twenty-first century is similar. Only mathematicians with doctoral degree can understand the universe and how it works, to the rest of mankind the universe is an area of darkness. This is not by any means a desirable development. As human beings, we are all sentient individuals and as such are expected to enquire about our environment, the world around us, and the universe we live in. On a fundamental philosophical basis, it is wrong to believe that such knowledge, whether by circumstance or by design, is limited to a privileged few. This book explains the universe for the first time in a way that is comprehensible to everyone. Neo-classical physics undertakes the study of the behaviour of the universe as an entity, and the physics of sub-atomic particles is easy to understand in everyday terms. Neo-classical physics is the language that sets you free – free to see, free to comprehend and free to wonder anew.

A New Theory of Physics

Educreation Publishing

This 21st Century Nanoscience Handbook will be the most comprehensive, up-to-date large reference work for the field of nanoscience. Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics. This follow-up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field. This ninth volume in a ten-volume set covers industiral applications. Key Features: Provides the most comprehensive, up-to-date large reference work for the field. Chapters written by international experts in the field. Emphasises presentation and real results and applications. This handbook distinguishes itself from other works by its breadth of coverage, readability and timely topics. The intended readership is very broad, from students and instructors to engineers, physicists, chemists, biologists, biomedical researchers, industry professionals, governmental scientists, and

others whose work is impacted by nanotechnology. It will be an indispensable resource in academic, government, and industry libraries worldwide. The fields impacted by nanophysics extend from materials science and engineering to biotechnology, biomedical engineering, medicine, electrical engineering, pharmaceutical science, computer technology, aerospace engineering, mechanical engineering, food science, and beyond. Krishna Prakashan Media Theoretical and practical interests in additive manufacturing (3D printing) are growing rapidly. Engineers and engineering companies now use 3D printing to make prototypes of products before going for full production. In an educational setting faculty, researchers, and students leverage 3D printing to enhance project-related products. Additive Manufacturing Handbook focuses on product design for the defense industry, which affects virtually every other industry. Thus, the handbook provides a wide range of benefits to all segments of business, industry, and government. Manufacturing has undergone a major advancement and technology shift in recent

years.

Krishna's Industrial Economics & Principles of Management

Krishna Prakashan Media

The book focusses on the recent technical research accomplishments in the area of polyethylene-based blends, composites and nanocomposites by looking at the various aspects of processing, morphology, properties and applications. In particular, the book details the important developments in areas such as the structure-properties relationship of polyethylene; modification of polyethylene with radiation and ion implantation processes; stabilization of irradiated polyethylene by the introduction of antioxidants; reinforcement of polyethylene through carbon-based materials as additives; characterization of carbon-based polyethylenes composites, polyethylene-based blends with thermoplastic and thermoset; characterization of polyethylene-based thermoplastic and thermoset blends; polyethylene-based blends with natural rubber and synthetic rubber; characterization of polyethylene-based natural rubber and synthetic rubber blends; characterization of polyethylene-based composites.

Engineering Physics: Vol. 1 CRC Press This 21st Century Nanoscience Handbook will be the most comprehensive, up-to-date large reference work for the field of nanoscience. Handbook of Nanophysics, by the same editor, published in the fall of 2010, was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics. This follow-up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field. Key Features: Provides the most comprehensive, up-to-date large reference work for the field. Chapters written by international experts in the field. Emphasises presentation and real results and applications. This handbook distinguishes itself from other works by its breadth of coverage, readability and timely topics. The intended readership is very broad, from students and instructors to engineers, physicists, chemists, biologists, biomedical researchers, industry professionals, governmental scientists, and others whose work is impacted by

nanotechnology. It will be an indispensable resource in academic, government, and industry libraries worldwide. The fields impacted by nanoscience extend from materials science and engineering to biotechnology, biomedical engineering, medicine, electrical engineering, pharmaceutical science, computer technology, aerospace engineering, mechanical engineering, food science, and beyond.

Krishna Prakashan Media

This book facilitates the VLSI-interested individuals with not only in-depth knowledge, but also the broad aspects of it by explaining its applications in different fields, including image processing and biomedical. The deep understanding of basic concepts gives you the power to develop a new application aspect, which is very well taken care of in this book by using simple language in explaining the concepts. In the VLSI world, the importance of hardware description languages cannot be ignored, as the designing of such dense and complex circuits is not possible without them. Both Verilog and VHDL languages are used here for designing. The current needs of high-performance integrated circuits (ICs)

including low power devices and new emerging materials, which can play a very important role in achieving new functionalities, are the most interesting part of the book. The testing of VLSI circuits becomes more crucial than the designing of the circuits in this nanometer technology era. The role of fault simulation algorithms is very well explained, and its implementation using Verilog is the key aspect of this book. This book is well organized into 20 chapters. Chapter 1 emphasizes on uses of FPGA on various image processing and biomedical applications. Then, the descriptions enlighten the basic understanding of digital design from the perspective of HDL in Chapters 2–5. The performance enhancement with alternate material or geometry for silicon-based FET designs is focused in Chapters 6 and 7. Chapters 8 and 9 describe the study of bimolecular interactions with biosensing FETs. Chapters 10–13 deal with advanced FET structures available in various shapes, materials such as nanowire, HFET, and their comparison in terms of device performance metrics calculation.

Chapters 14–18 describe different application-specific VLSI design techniques and challenges for analog and digital circuit designs. Chapter 19 explains the VLSI testability issues with the description of simulation and its categorization into logic and fault simulation for test pattern generation using Verilog HDL. Chapter 20 deals with a secured VLSI design with hardware obfuscation by hiding the IC's structure and function, which makes it much more difficult to reverse engineer.

Metal Oxide Varistors

Krishna Prakashan Media

This book provides an overview on nanostructured thermoelectric materials and devices, covering fundamental concepts, synthesis techniques, device contacts and stability, and potential applications, especially in waste heat recovery and solar energy conversion. The contents focus on thermoelectric devices made from nanomaterials with high thermoelectric efficiency for use in large scale to generate megawatts electricity. Covers the latest discoveries, methods, technologies in materials, contacts, modules, and systems for thermoelectricity. Addresses

practical details of how to improve the efficiency and power output of a generator by optimizing contacts and electrical conductivity. Gives tips on how to realize a realistic and usable device or module with attention to large scale industry synthesis and product development. Prof. Zhifeng Ren is M. D. Anderson Professor in the Department of Physics and the Texas Center for Superconductivity at the University of Houston. Prof. Yucheng Lan is an associate professor in Morgan State University. Prof. Qinyong Zhang is a professor in the Center for Advanced Materials and Energy at Xihua University of China.

Krishna's Environment and Ecology; for B. Tech Ist and IInd semester students of All Engineering Colleges affiliated to U.P. Technical University, Lucknow; As per revised syllabus, w.e.f. 2008-09

Krishna Prakashan Media

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