

# Navneet Gupta Engineering Physics Sem 1

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2nd Semester of Anna University)Digital Electronics  
(Digital Logic Design)Amorphous Solid  
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and Electronics MaterialsA Textbook of Engineering  
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Modern IndiaAdvances in Interdisciplinary  
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text focuses heavily on research, and fills a need for  
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applications in the field. Beginning with a brief  
overview, the book provides a historical and modern  
perspective on material science, and describes  
various types of engineering materials. It examines  
the industrial process for emerging materials,  
determines practical use under a wide range of  
conditions, and establishes what is needed to produce  
a new generation of materials. Covers Basic Concepts  
and Practical Applications The book consists of 18  
chapters and covers a variety of topics that include  
functionally graded materials, auxetic materials,  
whiskers, metallic glasses, biocomposite materials,  
nanomaterials, superalloys, superhard materials,  
shape-memory alloys, and smart materials. The  
author outlines the latest advancements, including

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futuristic plastics, sandwich composites, and biodegradable composites, and highlights special kinds of composites, including fire-resistant composites, marine composites, and biomimetics. He also factors in current examples, future prospects, and the latest research underway in materials technology. Contains approximately 160 diagrams and 85 tables Incorporates examples, illustrations, and applications used in a variety of engineering disciplines Includes solved numerical examples and objective questions with answers Engineering Materials: Research, Applications and Advances serves as a textbook and reference for advanced/graduate students in mechanical engineering, materials engineering, production engineering, physics, and chemistry, and relevant researchers and practicing professionals in the field of materials science.

### **CC CHATTERJEE'S HUMAN PHYSIOLOGY, VOLUME 1**

Dr. Arun Luiz T is currently working as Assistant Professor at SSN College of Engineering, Kalavakkam. He completed his Master in science from St. Mary's College (University of Calicut), Sulthan Bathery, Kerala in 2002. He Stood First in his College for B.sc and M.sc. (Chemistry). He received his Ph. D. in Inorganic Chemistry from IIT Madras in the year 2010. His research interest includes phosphorus- based ligands in synthetic inorganic chemistry and organometallic chemistry.He has Published four research papers in reputed national and international

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journals. He has more than four years of teaching experience in various engineering colleges.

### **ENGINEERING PHYSICS, THIRD EDITION**

S Chand's ISC Mathematics is structured according to the latest syllabus as per the new CISCE(Council for the Indian School Certificate Examinations), New Delhi, for ISC students taking classes XI & XII examinations.

### **Vedic Mathematics, Or Sixteen Simple Mathematical Formulae from the Vedas**

This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

### **Classical Mechanics of Particles and Rigid Bodies**

## **Engineering Chemistry-I (For 2nd Semester of Anna University)**

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book discusses interdisciplinary areas such as automobile engineering, mechatronics, applied and structural mechanics, bio-mechanics, biomedical instrumentation, ergonomics, biodynamic modeling, nuclear engineering, agriculture engineering, and farm machineries. The contents of the book will benefit both researchers and professionals.

## **Digital Electronics (Digital Logic Design)**

Zinc oxide (ZnO) belongs to the class of transparent conducting oxides that can be used as transparent electrodes in electronic devices or heated windows. In this book the material properties of, the deposition technologies for, and applications of zinc oxide in thin film solar cells are described in a comprehensive manner. Structural, morphological, optical and electronic properties of ZnO are treated in this review.

## **Amorphous Solid Dispersions**

History of Modern India presents an authoritative overview of the history of what was known as British India. The text is largely based on the author's research on nationalism and colonialism in India and also draws from the works of eminent historians of

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the period. Challenging and revising colonial and nationalist interpretations of history, this book moves away from a largely political narrative to a social, economic and religious history of modern India. It explains how conditions in India during the eighteenth century helped the British East India Company establish its rule in India. It also gives us important insights into the primary aim of colonial rule which was the economic exploitation of India through trade and investment. The topics are arranged thematically in order to showcase the various forces that went into the making of independent India. However, in the entire arrangement of themes, the chronology of the period is enmeshed innovatively with the various forces that evolved both as a cause and effect of British imperialist rule of the subcontinent. The book also provides a detailed account of the nationalist movement and introduces us to the contributions of different individuals who were behind the nationalist movement. A comprehensive textbook for students of history and interested readers, History of Modern India is essential reading for a broad based understanding of the making of modern India.

### **Electronic Switching**

The Special Theory of Relativity (STR) is the physical theory of measurement in inertial frames of reference proposed by Albert Einstein. It is deemed special because the theory or principle of relativity is applied only to inertial frames. In this books, Prof Ghatak sets out and explains the basic physics behind Einstein's theory, and at the same time he gives the reader a

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concise, enthusiastic overview of Einstein's massive contribution to science and the knowledge of mankind. In 1999, Time Magazine names Albert Einstein as "The Person of the Century." This book tells us why. The introduction deals with a summary of Einstein's work, Chapter One discusses Time Dilation and Length Contraction, Chapter Two deals with Mass-energy Relationship and Lorentz Transformations, and Chapters Three and Four reproduce two of his original ground breaking papers from 1905. "Special Theory of Relativity" can be read by physics and engineering undergraduates as a support text on their courses, but it is of equal interest to readers of general science and fans of Albert Einstein.

### **Advanced Electrical and Electronics Materials**

This book is a thorough study of electronic switching and concentrates on switching aspects and its problems. It spans the century from the very beginning of the telephone service to the present day. It deals with switching, signaling and traffic in the context of telecommunication networks. Some basic theory is presented in both qualitative and quantitative terms. However the main purpose is to introduce concepts, terminology and influence of application on implementations.

### **A Textbook of Engineering Mathematics (U.P. Technical University, Lucknow) Sem-II**

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Completely revised, entirely rewritten, thoroughly updated, and judiciously enlarged by a highly qualified and experienced team of editors.

## **Integrated Microelectronic Devices**

ISC Commerce Class-XI (Vol.I)

## **Technology and Applications of Amorphous Silicon**

## **Advances in Micro and Nano Manufacturing and Surface Engineering**

## **Optical Sensors for Biomedical Diagnostics and Environmental Monitoring**

## **History of Modern India**

The book comprises selected papers presented at the International Conference on Advanced Computing, Networking and Informatics (ICANI 2018), organized by Medi-Caps University, India. It includes novel and original research work on advanced computing, networking and informatics, and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques in the field of computing and networking.

## **Advances in Interdisciplinary Engineering**

### **Geomorphology**

### **High Pressure Processing of Food**

### **Engineering Physics (Annual Pattern)**

Understanding Information Technology series is written as per the requirements of the ICSE and CBSE schools, imparting knowledge in the field of Information and Technology. The series contains a number of special features:

- The topics are explained in lucid language in a systematic way.
- The series provides basic and comprehensive knowledge of the subject as per today's needs.
- The presentation of the books makes the subject interesting for the students.
- The series also contains a high-level language at all levels to develop the fundamental concept of programming techniques.

### **Transparent Conductive Zinc Oxide**

This volume offers a comprehensive guide on the theory and practice of amorphous solid dispersions (ASD) for handling challenges associated with poorly soluble drugs. In twenty-three inclusive chapters, the book examines thermodynamics and kinetics of the amorphous state and amorphous solid dispersions,

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ASD technologies, excipients for stabilizing amorphous solid dispersions such as polymers, and ASD manufacturing technologies, including spray drying, hot melt extrusion, fluid bed layering and solvent-controlled micro-precipitation technology (MBP). Each technology is illustrated by specific case studies. In addition, dedicated sections cover analytical tools and technologies for characterization of amorphous solid dispersions, the prediction of long-term stability, and the development of suitable dissolution methods and regulatory aspects. The book also highlights future technologies on the horizon, such as supercritical fluid processing, mesoporous silica, KinetiSol®, and the use of non-salt-forming organic acids and amino acids for the stabilization of amorphous systems. *Amorphous Solid Dispersions: Theory and Practice* is a valuable reference to pharmaceutical scientists interested in developing bioavailable and therapeutically effective formulations of poorly soluble molecules in order to advance these technologies and develop better medicines for the future.

### **International Conference on Advanced Computing Networking and Informatics**

Indian social media is awash with right-wing trolls who incite online communal tension and abuse anyone who questions them. But who are they? How are they organized? In this explosive investigation, conducted over two years, Swati Chaturvedi finally lifts the veil over this murky subject

## **The Physics of Semiconductor Devices**

### **I Am a Troll**

This book is written specifically to address the course curriculum in Engineering Physics for the first-year students of all branches of engineering. Though most of the topics covered are customarily taught in several universities and institutes, the book follows the sequence of topics as prescribed in the course syllabus of engineering colleges in Tamil Nadu. This new edition of the book continues to present the fundamental concepts of physics in a pedagogically sound manner. It includes a new chapter on Thermal Physics, which is essential for core engineering students. Furthermore, topics like crystal growth techniques, estimation of packing density of diamond and the relation between three moduli of elasticity are included at the appropriate places, to improve the understanding of the subject matter. KEY FEATURES • Several numerical problems (solved and unsolved) to strengthen the problem-solving ability of students • Short and Long questions at the end of each chapter • Model Test Papers with solutions • Summary at the end of each chapter to recapitulate the most important results of the chapter

### **Advanced Graphic Communication, Printing and Packaging Technology**

A modern take on microelectronic device engineering  
Microelectronics is a 50-year-old engineering

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discipline still undergoing rapid evolution and societal adoption. Integrated Microelectronic Devices: Physics and Modeling fills the need for a rigorous description of semiconductor device physics that is relevant to modern nanoelectronics. The central goal is to present the fundamentals of semiconductor device operation with relevance to modern integrated microelectronics. Emphasis is devoted to frequency response, layout, geometrical effects, parasitic issues and modeling in integrated microelectronics devices (transistors and diodes). In addition to this focus, the concepts learned here are highly applicable in other device contexts. This text is suitable for a one-semester junior or senior-level course by selecting the front sections of selected chapters (e.g. 1-9). It can also be used in a two-semester senior-level or a graduate-level course by taking advantage of the more advanced sections.

## **Special Theory of Relativity**

The rapid growth of modern industry has resulted in a growing demand for construction materials with excellent operational properties. However, the improved features of these materials can significantly hinder their manufacture and, therefore, they can be defined as hard-to-cut. The main difficulties during the manufacturing/processing of hard-to-cut materials are attributed especially to their high hardness and abrasion resistance, high strength at room or elevated temperatures, increased thermal conductivity, as well as resistance to oxidation and corrosion. Nowadays, the group of hard-to-cut

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materials is extensive and still expanding, which is attributed to the development of a novel manufacturing techniques (e.g., additive technologies). Currently, the group of hard-to-cut materials mainly includes hardened and stainless steels, titanium, cobalt and nickel alloys, composites, ceramics, as well as the hard clads fabricated by additive techniques. This Special Issue, "Advances in Hard-to-Cut Materials: Manufacturing, Properties, Process Mechanics and Evaluation of Surface Integrity", provides the collection of research papers regarding the various problems correlated with hard-to-cut materials. The analysis of these studies reveals the primary directions regarding the developments in manufacturing methods, characterization, and optimization of hard-to-cut materials.

### **Steam Tables ( With Mollier Diagrams In S.I. Units )**

### **Advances in Hard-to-Cut Materials**

This comprehensive and unique book is intended to cover the vast and fast-growing field of electrical and electronic materials and their engineering in accordance with modern developments. Basic and pre-requisite information has been included for easy transition to more complex topics. Latest developments in various fields of materials and their sciences/engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber-optics, high temperature

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superconductors, smart materials, ferromagnetic semiconductors etc. are covered. Illustrations and examples encompass different engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer, and their interdisciplinary branches. A variety of materials ranging from iridium to garnets, microelectronics, micro alloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail.

### **APC Understanding Information Technology 8**

This volume presents research papers on micro and nano manufacturing and surface engineering which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers discuss the latest advances in miniature manufacturing, the machining of miniature components and features as well as improvement of surface properties. This volume will be of interest to academicians, researchers, and practicing engineers alike.

### **ISC Mathematics book 1 for Class- 11**

### **Engineering Materials**

Comdex Professional Edition is specially designed for software explorers who want to take next higher step towards mastering Windows Vista and MS Office

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2007. Simple language, easy to read layout, tooltips and detailed description of minute settings set this book at par. Not this much, the self learning tutorial (world acclaimed) test your skills and correct whenever you made a mistake.

## **ISC Commerce Class-XI (Vol.I)**

### **Basics of Mechanical Engineering**

#### **Advanced level physics**

#### **A Course In Power Systems**

High pressure processing technology has been adopted worldwide at the industrial level to preserve a wide variety of food products without using heat or chemical preservatives. High Pressure Processing: Technology Principles and Applications will review the basic technology principles and process parameters that govern microbial safety and product quality, an essential requirement for industrial application. This book will be of interest to scientists in the food industry, in particular to those involved in the processing of products such as meat, fish, fruits, and vegetables. The book will be equally important to food microbiologists and processing specialists in both the government and food industry. Moreover, it will be a valuable reference for authorities involved in the import and export of high pressure treated food

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products. Finally, this update on the science and technology of high pressure processing will be helpful to all academic, industrial, local, and state educators in their educational efforts, as well as a great resource for graduate students interested in learning about state-of-the-art technology in food engineering.

### **Sustainable Construction and Building Materials**

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

### **Progress in Intelligent Computing Techniques: Theory, Practice, and Applications**

Comprehensive yet simply-written, this text provides a classical treatment of the mechanics of particles and rigid bodies, and contains nearly 200 examples and solved problems. The solved problems are supplemented by many more unsolved ones and revision questions at the end of each chapter.

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Exposition emphasizes the analogy between certain aspects of classical mechanics and quantum mechanics. The last chapter is devoted to non-linear oscillatory systems. Topics covered include the Lagrangian formalism, the Hamiltonian formalism, decay and scattering processes, kinematics and dynamics of rigid body motion, the special theory of relativity, relativistic classical mechanics, continuous systems and classical fields.

### **Textbook of Neurology**

The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book contains the Proceedings of 4th International Conference on Advanced Computing, Networking and Informatics. This book brings together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

### **Handbook of Neurological Examination**

This book gives the first systematic and complete survey of technology and application of amorphous silicon, a material with a huge potential in electronic applications. The book features contributions by world-

wide leading researchers in this field.

## **Fundamentals of Physics**

The field of plasmonics has shown extraordinary capabilities in realizing highly sensitive and accurate sensors for environmental monitoring and measurement of biological analytes. The inherent potential of such devices has led to growing interest worldwide in commercial fiber optic chemical and biosensors. *Optical Sensors for Biomedical Diagnostics and Environmental Monitoring* is an essential resource for students, established researchers, and industry developers in need of a reference work on both the fundamentals and latest advances in optical fiber sensor technology in biomedical diagnostics and environmental monitoring. The book includes rigorous theory and experimental techniques of surface plasmon and lossy mode resonances, as well as real-time sensing applications of resonance techniques implemented over optical fiber substrate using bulk layer and/or nanostructures as transducer and sensing layers. In addition, discussion of various design options for real-time sensors in environmental monitoring and biomedical diagnostics make the book approachable to readers from multidisciplinary fields.

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