

# Di Electric Properties Jntu Notes

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Jntu Notes*

2020-03-23

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### Electromagnetic Field Theory and

### Transmission Lines S. Chand Publishing

This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

### **Fundamentals of Smart Materials**

Morgan & Claypool Publishers

Electromagnetic Field Theory and Transmission Lines is ideal for a single semester, first course on Electromagnetic Field Theory (EMFT) at the undergraduate level. This book uses diagrammatic representations and real life examples to explain the fu

### The Hysteresis Machines S. Chand Publishing

All hysteresis machines, are characterised by the use of a 'hard' or permanent-magnet material in the rotor of the machine in different forms whilst the stator may be similar to that of a 3-phase induction motor or comprise salient poles. The driving torque in the hysteresis machine is typically related to loss of power resulting from hysteresis in the active part of the rotor. A hysteresis motor which forms the mainstay of a variety of hysteresis machines is a synchronous motor, being self-starting with the developed torque remaining constant throughout. The present book, one of its kind covering the said subject matter, describes in detail the construction and working principle of a variety of commercially available hysteresis machines. The last part of the book is devoted to a comprehensive study of an experimental hysteresis machine. The contents of this part derive entirely from the experimental and analytical work carried out by the author during his doctoral research at the University of Aston in the UK. The exhaustive range of tests and measurements, obtained by the use of uniquely devised transducers and techniques, many of these having been

evolved for the first time, showcase numerous aspects of a hysteresis machine, never before brought out anywhere. These relate mainly to the measured waveforms of radial and peripheral flux density in the airgap and active part of the rotor as influenced by the hysteretic properties of the rotor material.

### **ELECTROMAGNETIC WAVES AND RADIATING SYSTEMS**

Springer Nature Engineering Physics-II: For JNTUK is designed to cater to the needs of the undergraduate engineering students of JNTU Kakinada. Written in a lucid style, this book assimilates the best principles of conceptual pedagogy, dealing at length with various topics such as wave optics, nuclear physics, quantum physics, solid state physics, lasers and fibre optics.

*A Textbook of Engineering Physics* Pearson Education India

Applied Physics is designed to cater to the needs of first year undergraduate engineering students of Jawaharlal Nehru Technical University (J.N.T.U). Written in a lucid style, this book assimilates the best practices of conceptual pedagogy, dealing at length with various topics such as crystallography, principles of quantum mechanics, free electron theory of metals, dielectric and magnetic properties, semi conductors, superconductivity, lasers, holography, and nanotechnology.

*The Principles of Quantum Mechanics* PHI Learning Pvt. Ltd.

This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and limitations. Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors.

**Basic Electrical Engineering** Pearson Education India

Engineering Physics is designed to cater to the needs of first year undergraduate engineering students. Written in a lucid style, this book assimilates the best practices of conceptual pedagogy, dealing at length with various topics such as crystallography, principles of quantum mechanics, free electron theory of metals,

dielectric and magnetic properties, semiconductors, nanotechnology, etc.

**Power System Analysis** New Era Publication

This book introduces research presented at the International Conference on Distributed Computing and Optimization Techniques (ICDCOT-2021), a two-day conference, where researchers, engineers, and academicians from all over the world came together to share their experiences and findings on all aspects of distributed computing and its applications in diverse areas. The book includes papers on distributed computing, intelligent system, optimization method, mathematical modeling, fuzzy logic, neural networks, grid computing, load balancing, communication. It will be a valuable resource for students, academics, and practitioners in the industry working on distributed computing.

**Physical pharmaceuticals I** Pearson Education India

Antennas and Wave Propagation is written for the first course on the same. The book begins with an introduction that discusses the fundamental concepts, notations, representation and principles that govern the field of antennas. A separate chapter on mathematical preliminaries is discussed followed by chapters on every aspect of antennas from Maxwell's equations to antenna array analysis, antenna array synthesis, antenna measurements and wave propagation.

Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems Technical Publications

A Txtbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive 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, modernized and updated at various stages.

Low-Power VLSI Circuits and Systems Springer

This book is designed based on revised syllabus of Gujarat Technological

University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

**Engineering Circuit Analysis** PHI Learning Pvt. Ltd.

Electronic materials are a dominant factor in many areas of modern technology. The need to understand them is paramount; this book addresses that need. The main aim of this volume is to provide a broad unified view of electronic materials, including key aspects of their science and technology and also, in many cases, their commercial implications. It was considered important that much of the contents of such an overview should be intelligible by a broad audience of graduates and industrial scientists, and relevant to advanced undergraduate studies. It should also be up to date and even looking forward to the future. Although more extensive, and written specifically as a text, the resulting book has much in common with a short course of the same name given at Coventry Polytechnic. The interpretation of the term "electronic materials" used in this volume is a very broad one, in line with the initial aim. The principal restriction is that, with one or two minor exceptions relating to aspects of device processing, for example, the materials dealt with are all active materials. Materials such as simple insulators or simple conductors, playing only a passive role, are not singled out for consideration. Active materials might be defined as those involved in the processing of signals in a way that depends crucially on some specific property of those materials, and the immediate question then concerns the types of signals that might be considered. *Basic Electrical Engineering* Springer Science & Business Media

The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 - 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and

automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

**Electronic Devices and Circuits**

Springer Nature

This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

*Food Packaging Technology* Pearson Education India

The progress of civilization can be, in part, attributed to their ability to employ metallurgy. This book is an introduction to multiple facets of physical metallurgy, materials science, and engineering. As all metals are crystalline in structure, it focuses attention on these structures and how the formation of these crystals are responsible for certain aspects of the material's chemical and physical behaviour. Concepts in Physical Metallurgy also discusses the mechanical properties of metals, the theory of alloys, and physical metallurgy of ferrous and non-ferrous alloys.

**Innovations in Electrical and Electronic Engineering** AG PUBLISHING HOUSE (AGPH Books)

This book comprises select peer-reviewed papers from the International Conference on VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems (VSPICE-2020). The book provides insights into various aspects of the emerging fields in the areas Electronics and Communication Engineering as a holistic approach. The various topics covered in this book include VLSI, embedded systems, signal processing, communication, power electronics and internet of things. This book mainly focuses on the most recent innovations, trends, concerns and practical challenges and their solutions. This book will be useful for academicians, professionals and researchers in the area of electronics and communications and electrical engineering.

**Electromagnetic Field Theory** Technical Publications

Ferroelectric materials have been and still are widely used in many applications, that have moved from sonar towards

breakthrough technologies such as memories or optical devices. This book is a part of a four volume collection (covering material aspects, physical effects, characterization and modeling, and applications) and focuses on the application of ferroelectric devices to innovative systems. In particular, the use of these materials as varying capacitors, gyroscope, acoustics sensors and actuators, microgenerators and memory devices will be exposed, providing an up-to-date review of recent scientific findings and recent advances in the field of ferroelectric devices.

*Applied Physics As Per Jntu Syllabus 2005-2006* PHI Learning Pvt. Ltd.

The protection and preservation of a product, the launch of new products or re-launch of existing products, perception of added-value to products or services, and cost reduction in the supply chain are all objectives of food packaging. Taking into consideration the requirements specific to different products, how can one package successfully meet all of these goals? *Food Packaging Technology* provides a contemporary overview of food processing and packaging technologies. Covering the wide range of issues you face when developing innovative food packaging, the book includes: Food packaging strategy, design, and development Food biodeterioration and methods of preservation Packaged product quality and shelf life Logistical packaging for food marketing systems Packaging materials and processes The battle rages over which type of container should be used for which application. It is therefore necessary to consider which materials, or combination of materials and processes will best serve the market and enhance brand value. *Food Packaging Technology* gives you the tools to determine which form of packaging will meet your business goals without compromising the safety of your product.

*5000 MCQ: Electrical Engineering For UPSC GATE/PSUs* BoD - Books on Demand Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical

preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.  
*Power System Engineering* Oxford University Press  
The knowledge of switchgear and

apparatus protection plays an important role in the power system. The book is structured to cover the key aspects of the course Switchgear & Protection for undergraduate students. The book starts with the discussion of basics of protective relaying. The book includes comprehensive coverage of faults and analysis of symmetrical and unsymmetrical faults. The book explains the protection against overvoltage, lightning arresters and power system earthing. The book covers the characteristics of various types of relays such as electromagnetic relays, induction type relays, directional relays, differential relays, thermal relays, frequency relays and negative sequence relays. The detailed discussion of distance relays and static relays is also included in the book.

The book also covers the various possible faults and methods of protection of transformers, generators, motors, busbars and transmission lines. The book further explains the theory of circuit interruption and various arc interruption methods. Finally, the book incorporates various types of circuit breakers, circuit breaker ratings and testing of circuit breakers. The book uses plain and lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.