

* BASIC ELECTRICAL ENGINEERING * MODULE-I

* FUNDAMENTALS OF ELECTRIC CIRCUITS

ELECTRICITY :-

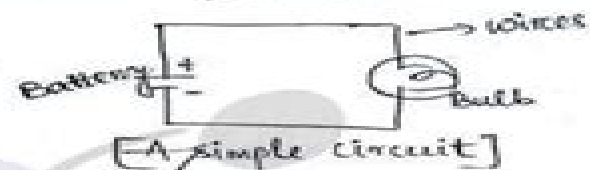
- The invisible energy which constitutes the flow of electrons through a circuit to do work is called electricity.
- It is used for lighting, heating, cooling, radio & TV broadcasting, computers, transportation etc.

ELECTRIC CIRCUIT :-

→ For communicating or transferring energy from one point to other, we require interconnection of electrical devices.

→ An electric circuit is an interconnection of electrical elements.

→ A simple electric circuit is shown in the figure. This consists of three basic elements: a battery, a lamp & connecting wires.



ELECTRIC CHARGE :-

→ The most basic quantity of electricity is the electric charge.

→ All matter is made of fundamental building blocks known as atoms & each atom consists of electrons, protons & neutrons.

→ Electron is of negative charge having magnitude $1.602 \times 10^{-19} \text{ C}$.

Proton is of positive charge having magnitude $1.602 \times 10^{-19} \text{ C}$.

→ The presence of equal no. of protons & electrons makes an atom neutrally charged.

→ Charge is an electrical property of the atomic particles of which matter consists, measured in Coulombs (C).

→ Coulomb is a large unit for charges. In 1C of charge, there are 6.24×10^{18} electrons.

ELECTRIC CURRENT :-

→ Electric Current is the time rate of change of charge, measured in amperes (A).

→ When a conducting wire is connected to a battery the charges are compelled to move i.e., positive charges in one direction & negative charges in opposite direction.

→ This motion of charges creates electric current.

Basic Electrical Engineering Jntu Notes

S.K. Bhattacharya



Basic Electrical Engineering Jntu Notes

Basic Electrical Engineering Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar, 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

Basic Electrical Engineering Ramana Pilla | HD Mehta,2022-01-03 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

Electrical Engineering (as Per Uptu Syllabus) C. L. Wadhwa,2006 Basic Electrical Engineering Has Been Written As A Core Course For All Engineering Students Viz Electronics And Communication Engineering Computer Engineering Civil Engineering Mechanical Engineering Etc Since This Course Will Normally Be Offered At The First Year Level Of Engineering The Author Has Made Modest Effort To Give In A Concise Form Various Features Of Basic Electrical Engineering Using Simple Language And Through Solved Examples Avoiding The Rigorous Of Mathematics Salient Features Steady State Analysis Of A C Circuits Explained Network Theorems Explained Using Typical Examples Analysis Of 3 Phase Circuits And Measurement Of Power In These Circuits Explained Measuring Instruments Like Ammeter Voltmeter Wattmeter And Energy Meter Described Various Electrical Machines Like Transformers D C Machines Single Phase And Three Phase Induction Motors Synchronous Machines Servomotors Have Been Described A Brief View Of Power System Including Conventional And Nonconventional Services Of Electrical Energy Is Given Numerous Solved Examples And Practice Problems For Thorough Grasp Of The Subject Presented A Large Number Of Multiple Choice Questions With Answers Given

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Basic Electrical Engineering Handbook KELVIN UKOIMA,2016-11-04

Basic Electrical Engineering: for BPUT S. K. Bhattacharya,2011 Basic Electrical Engineering For BPUT is designed as per the syllabus requirements of the first year core paper Basic Electrical Engineering offered to undergraduate students of engineering in the Biju Patnaik University of Technology With its simple language and clear cut style of explanation this book presents an intelligent understanding of the basics of electrical engineering

BASIC ELECTRICAL ENGINEERING Dr. K. A. Navas,T. A. Suhail,2016-08-01 This book is prepared as per the syllabus of VISVESVARAYA TECHNOLOGICAL UNIVERSITY Karnataka for first year B Tech Engineering course using the reference books given in the course syllabus Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them Many solved problems sample question papers and exercise given in every section will provide a thorough understanding of topics

Basic Electrical Engineering P B Karandikar,
Notes on Principles of Electrical Engineering (basic Course) Massachusetts Institute of Technology. Department of Electrical Engineering,1935
Basic Electrical and Electronics Engineering: For PTU Bhattacharya,2011 Basic Electrical and Electronics Engineering For PTU is a student friendly practical and example driven book that gives students a solid foundation in the basics of electrical and electronics engineering The contents have been tailored to exactly correspond with the requirements of the core course Basic Electrical and Electronics Engineering offered to the students of Punjab Technical University in their first year A rich collection of solved examples and chapters mapped to the university syllabus make this book indispensable for students
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Fundamentals of Electrical Engineering M. A. Mallick,2010
Fundamentals of Electrical Engineering and Electronics BL Theraja,2006-06 This Book extensive pruning of the solved Examples in the text Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions
Basic Electrical Engineering ,2019
Basic Electrical Engineering Semester-II (RTM) Nagpur University B L Theraja, Kiran Manish Kimmattkar, Umesh E. Hiwase & A K Theraja, Basic Electrical Engineering is written exclusively for B Tech Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University Nagpur RTMNU Nagpur Each of the important topics that help the student in learning the principles of Electrical Engineering more effectively have been included
Basic Electrical Engineering ,2015
Basic Electrical and Electronics Engineering Manojkumar Rampelli,2018-12-13 This is a handwritten basic electrical and electronics engineering notes The syllabus is as follows UNIT IELECTRICAL CIRCUITS Basic definitions Types of network elements Ohm s Law Kirchhoff s Laws inductive networks capacitive networks series parallel circuits and star delta and delta star transformations UNIT IIDC MACHINES Principle of operation of DC generator emf equation types DC motor types torque equation applications three point starter Swinburne s Test speed control methods UNIT IIITRANSFORMERS Principle of operation of single phase transformers e m f equation losses efficiency and regulation UNIT IVAC MACHINES Principle of operation of alternators regulation by synchronous impedance method principle of operation of 3 Phase induction motor slip torque characteristics efficiency applications UNIT VRECTIFIERS LINEAR ICs PN junction diodes diode applications Half wave and bridge rectifiers Characteristics of operation amplifiers OP AMP application of OP AMPs inverting non inverting integrator and differentiator UNIT VITRANSISTORS PNP and NPN junction transistor transistor as an amplifier single stage CE Amplifier frequency response of CE amplifier concepts of feedback amplifier
Basic Electrical Engineering (As Per Vtu Syllabus) C.L. Wadhwa,2007-01-01
Basic Electrical Engineering S. Sivanagaraju,P. V. Prasad,2012

Schaum's Outline of Theory and Problems of Basic Electrical Engineering Jimmie J. Cathey, S. A. Nasar, 1984 This book covers the basic areas of study in the basic core electrical engineering course Solved examples and problems enhance the reader's comprehension of the material It serves as a self study review for professional engineering exams

Basic Electrical Engineering Jntu Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Basic Electrical Engineering Jntu Notes : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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