

First / second semester BE Examination.

June / July 2019

Basic Electrical Engineering.

18ELE13/23

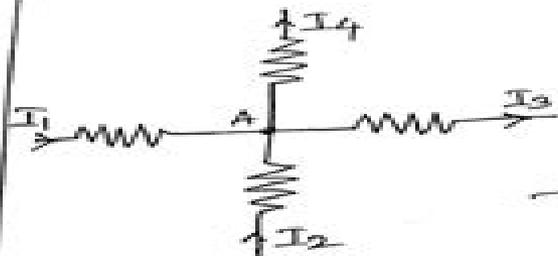
Max. Marks: 100.

Prepared By: Prof. Ravindra Motekar

10 State & Explain Kirchhoff's laws? (8M).

i) Current Law:

The algebraic sum of all currents meeting at any junction of an electrical ckt is zero.  
ie,  $\sum I = 0$



By KCL

$$I_1 + I_2 - I_3 - I_4 = 0.$$

$$\text{or } I_1 + I_2 = I_3 + I_4.$$

"At any junction of electric ckt, the sum of currents entering the node is equal to sum of currents leaving the node".

ii) Voltage Law:-

"In any closed electric ckt, the algebraic sum of all emf's & resistive drops is equal to zero.

$$\text{ie, } \sum E + \sum IR = 0.$$

All voltage rise are taken as +ve & all vltg drops are taken as -ve.



# Basic Electrical Engineering Jntu Notes

**Amit Kumar, Sabrina Senatore, Vinit  
Kumar Gunjan**



## **Basic Electrical Engineering Jntu Notes:**

Advances in Power Systems and Energy Management Amik Garg, Akash Kumar Bhoi, Padmanaban Sanjeevikumar, K. K. Kamani, 2017-11-28 This book is a collection of research articles and critical review articles describing the overall approach to energy management. The book emphasizes the technical issues that drive energy efficiency in context of power systems. This book contains case studies with and without solutions on modelling simulation and optimization techniques. It covers some innovative topics such as medium voltage MV back to back BTB system cost optimization of a ring frame unit in textile industry, rectenna for radio frequency RF energy harvesting, ecology and energy dimension in infrastructural designs, 2.4 kW three phase inverter for aircraft application, study of automatic generation control AGC in a two area hydrothermal power system, energy efficient and reliable depth based routing protocol for underwater wireless sensor network and power line communication using LabVIEW. This book is primarily targeted at researchers and senior graduate students but is also highly useful for the industry professional and scientists.

*Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems* Shubhakar Kalya, Muralidhar Kulkarni, K. S. Shivaprakasha, 2021-04-10 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.

*Advances in VLSI, Signal Processing and Wireless Communication* Aniruddha Kanhe, Suresh Balanethiram, Pao-Ann Hsiung, Dushantha Nalin K. Jayakody, 2025-08-26 This book presents select proceedings of the International Conference on Communication Systems ICOCS 2023. The book includes cutting edge research papers in the emerging fields of communication, signal processing and VLSI. The book is a unique collection of chapters from different areas with a common theme. It benefits academic researchers and practitioners in the industry who work in this field.

*Maro Polymer Notes*, 2000

**Artificial Intelligence, Machine Learning and IoT for Smart Business Management** Garima Jain, Ankush Jain, Veena Grover, Balamurugan Balusamy, Praveen Tomar, 2025-09-30 This book investigates the transformative impact of AI, ML, data analytics and IoT on modern business, emphasizing their roles in strategic growth, operational efficiency and data driven decision making. Through real world case studies, strategic frameworks and ethical considerations, it offers actionable insights for integrating these technologies. Covering emerging trends and responsible adoption, this book is an essential resource for professionals navigating digital transformation and achieving sustainable success. Explore the application of AI, ML, data analytics and IoT within business contexts, emphasizing their roles in strategic growth, operational efficiency and

decision making Provides methodologies for maximizing ROI mitigating risks and fostering innovation Explores predictive modeling market segmentation and business intelligence for competitive advantage Examines cutting edge automation technologies that optimize processes and enhance workforce efficiency Investigates neuro fuzzy systems in financial forecasting to improve predictive accuracy and decision making This book serves as a practical guide for professionals and as a reference for scholars researchers and students of computer science and business management ICDSMLA 2019 Amit Kumar, Marcin Paprzycki, Vinit Kumar Gunjan, 2020-05-19 This book gathers selected high impact articles from the 1st International Conference on Data Science Machine Learning Applications 2019 It highlights the latest developments in the areas of Artificial Intelligence Machine Learning Soft Computing Human Computer Interaction and various data science machine learning applications It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives practices and technical expertise *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 Basic Electrical Engineering , This eBook provides a comprehensive introduction to Basic Electrical Engineering covering fundamental concepts and practical applications Designed for students professionals and enthusiasts it includes essential topics such as DC circuits AC circuits transformers electrical machines electrical installation and basic instruments The content is derived from meticulously handwritten study notes ensuring a clear and structured approach to understanding key electrical principles Whether you are a beginner or looking for a quick reference this eBook serves as a valuable resource for grasping the core aspects of electrical engineering *Basic Electrical Engineering Handbook* KELVIN UKOIMA, 2016-11-04 **Basic Electrical Engineering** P B Karandikar, Basic Electrical Engineering (Jntu Ed) Nagsarkar, T.K. And Sukhija, M.S., 2005-09-06 *Energy Systems, Drives and Automations* Jerzy Ryszard Szymanski, Chandan Kumar Chanda, Pranab Kumar Mondal, Kamrul Alam Khan, 2023-08-20 This book covers the proceedings of the 4th International Conference on Energy Systems Drives and Automations ESDA2021 It comprises interesting topics in renewable energy power management drives of electrical machines and automation It also discusses different tools and techniques to match the conference theme This book also comprehensively discusses related tools and techniques and is a valuable resource for researchers and professionals in electrical and mechanical engineering disciplines Basic Electrical Engineering Made Easy Sehgal And Bihari, 2010-01-01 Made Easy Series is developed with an objective of meeting the requirement of books that cover syllabi of important core engineering subjects focussing completely on the manner in which concepts will be tested in examinations Books in this series are designed in a question and answer format to cater to

undergraduate students of all major technological universities and to equip them with the desired knowledge in a simple yet comprehensive manner They explore all the important concepts of the syllabi with the help of solved questions and numerical problems of previous years question papers of these universities Apart from being extremely student friendly and lucid the books in this series are rich in pedagogical features such as brief point wise discussion of fundamental concepts theoretical questions with answers solved numerical problems and objective questions and exercises for further practice all taken from previous years question papers that aid students in preparing well for university examinations Because of the fiercely competitive nature of the current academic scenario and the large number of books available for each topic it is extremely difficult for students to spend too much time in an in depth study of each book especially during examinations when they are hard pressed for time Made Easy Series will empower students to prepare for university examinations in a systematic and thorough manner in a limited amount of time The syllabi of the following universities have been covered in the book UPTU Anna Univ JNTU VTU RTU RGTU WBUT BPUT PTU Pune Univ Mumbai Univ **Notes on Principles of Electrical Engineering (basic Course)** Massachusetts Institute of Technology. Department of Electrical Engineering,1940

ICDSMLA 2021 Amit Kumar,Sabrina Senatore,Vinit Kumar Gunjan,2023-02-06 This book gathers selected high impact articles from the 3rd International Conference on Data Science Machine Learning Applications 2021 It highlights the latest developments in the areas of artificial intelligence machine learning soft computing human computer interaction and various data science and machine learning applications It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives practices and technical expertise

**Microelectronics, Electromagnetics and Telecommunications** Jaume Anguera,Suresh Chandra Satapathy,Vikrant Bhateja,K.V.N. Sunitha,2018-01-25 The volume contains 94 best selected research papers presented at the Third International Conference on Micro Electronics Electromagnetics and Telecommunications ICMEET 2017 The conference was held during 09 10 September 2017 at Department of Electronics and Communication Engineering BVRIT Hyderabad College of Engineering for Women Hyderabad Telangana India The volume includes original and application based research papers on microelectronics electromagnetics telecommunications wireless communications signal speech video processing and embedded systems *Networks and Communications (NetCom2013)* Natarajan Meghanathan,Dhinaharan Nagamalai,Sanguthevar Rajasekaran,2014-02-05 This book covers theory methodology and applications of computer networks network protocols and wireless networks data communication technologies and network security The book is based on the proceedings from the Fifth International Conference on Networks Communications NetCom The proceedings will feature peer reviewed papers that illustrate research results projects surveys and industrial experiences that describe significant advances in the diverse areas of computer networks communications *Basic Electrical Engineering* John Shepherd,1961 **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** Mithal G K,1998

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