

First / second semester BE Examination.

June / July 2019

Basic Electrical Engineering.

18ELE13/23

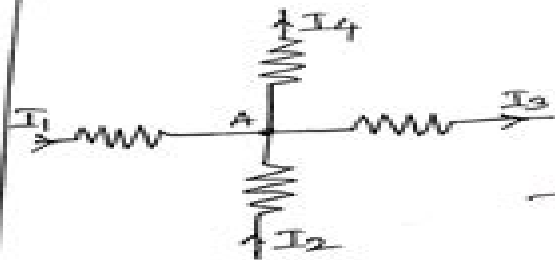
Max. Marks: 100.

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 voltage drops are taken as -ve.



Basic Electrical Engineering Jntu Notes

Chao Zhang



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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. *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

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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 Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar, 2022-01-03 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 P B Karandikar, *Basic*

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UKOIMA, 2016-11-04 *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 **Notes on Principles of Electrical Engineering (basic Course)**

Massachusetts Institute of Technology. Department of Electrical Engineering, 1940 **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

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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

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

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 Engineering** S. Sivanagaraju,P. V. Prasad,2012 **Basic Electrical Engineering** Mithal G K,1998

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