

First / second semester BE Examination.

June / July 2019

Basic Electrical Engineering.

18ELE13/23

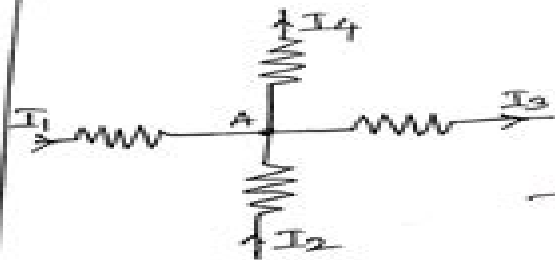
Max. Marks: 100.

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

Ying-Ying Zheng



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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.

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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)**

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