

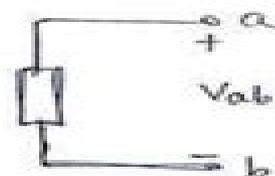
- ④ The Current flowing through an element is $i = \begin{cases} 2A, & 0 < t < 1 \\ 2t^2 A, & t > 1 \end{cases}$
 Calculate the charge entering the element from $t=0$ to $t=2$ sec.
 [-Ans: 6.667C]

ELECTRIC POTENTIAL (OR VOLTAGE) :-

- Voltage (or potential difference) is the energy required to move a unit charge through an element.
- The voltage V_{ab} betⁿ two points 'a' & 'b' in an electric circuit is the energy needed to move a unit charge from 'a' to 'b'.

Mathematically,

$$V_{ab} = \frac{dw}{dq}$$



Where, w = Energy in Joules (J), q = charge in Coulombs (C).

- Unit of voltage is Volt named after physicist Alessandro Volta, who invented the first voltaic battery.
- 1 volt = 1 Joule/coulomb = 1 Newton meter/coulomb.
- Like electric current, a constant voltage is called a dc voltage and a sinusoidally time-varying voltage is called ac voltage.
- Voltage from a battery is dc voltage and ac voltage is produced by an ac electric generator.

POWER & ENERGY :-

- Power is the time rate of expanding or absorbing energy.
- Unit of Power is Watts (W).

Mathematically, $P = \frac{dw}{dt}$, where w = Energy in Joules (J)
 t = time in seconds (s).

$$\rightarrow P = \frac{dw}{dt} = \frac{dw}{dq} \times \frac{dq}{dt} = vi \Rightarrow \boxed{P = vi} \rightarrow \text{Instantaneous power.}$$

- If power has a '+' sign, then power is being delivered to or absorbed by the element, whereas if power has '-' sign, then power is being supplied by the element.

Passive Sign Convention :-

- It states that, when current enters through the positive terminal of an element, ~~and~~ $p = +vi$, if the current enters through the negative terminal, $p = -vi$.

Basic Electrical Engineering Jntu Notes Thefunore

**Dr. Ramana Pilla, Dr. M Surya
Kalavathi & Dr. G T Chandra Sekhar**

Basic Electrical Engineering Jntu Notes Thefunore:

Basic Electrical Engineering P B Karandikar, *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

Notes on Principles of Electrical Engineering (basic Course) Massachusetts Institute of Technology. Department of Electrical Engineering, 1935 [Basic Electrical Engineering \(Jntu Ed\)](#) Nagsarkar, T.K. And Sukhija, M.S., 2005-09-06

[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 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 III TRANSFORMERS Principle of operation of single phase transformers e m f equation losses efficiency and regulation UNIT IV AC 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 V RECTIFIERS 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 VI TRANSISTORS PNP and NPN junction transistor transistor as an amplifier single stage CE Amplifier frequency response of CE amplifier concepts of feedback amplifier

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