

→ So, in a conductor, current flows in the direction opposite to the flow of electron. The universal convention that current is the net flow of positive charges, protons.

→ Mathematically,

$$i = \frac{dq}{dt} \Rightarrow q = \int_{t_0}^t i dt$$



(Current due to flow of charge in a conductor)

→ Unit of current is Ampere. 1 Ampere = 1 Coulomb/sec.

→ As charge can vary with time in several ways, there are two types of current exist.

→ A direct current (dc) is a current that remains constant with time, whereas an alternating current (ac) is a current that varies sinusoidally with time.



Problems :-

① The total charge entering a terminal is given by $q = 5t \sin 4\pi t$ mc. Calculate the current at $t = 0.5$ s.

Sol:- $i = \frac{dq}{dt} = \frac{d}{dt} (5t \sin 4\pi t) = (5 \sin 4\pi t + 20\pi t \cos 4\pi t)$ mA

At $t = 0.5$ sec, $i = 5 \sin 2\pi + 10\pi \cos 2\pi = 0 + 10\pi = \boxed{31.42 \text{ mA}}$ (Ans)

② Determine the total charge entering a terminal betⁿ $t = 1$ s & $t = 2$ s, if the current passing to terminal is $i = (3t^2 - t)$ A.

Sol:- $q = \int_{t=1}^2 i dt = \int_{t=1}^2 (3t^2 - t) dt = \left(t^3 - \frac{t^2}{2} \right) \Big|_1^2 = (8 - 2) - (1 - \frac{1}{2}) = \boxed{5.5 \text{ C}}$ (Ans)

③ The total charge entering a terminal is $q = (30 - 10e^{-2t})$ mc, find the current at $t = 0.5$ s. [Ans: 7.36 mA]

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Ensheng Dong



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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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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**, 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** P B Karandikar, **Basic Electrical Engineering Handbook**

KELVIN 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 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

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Notes on Principles of Electrical Engineering (basic Course) Massachusetts Institute of Technology, Department of Electrical Engineering, 1940

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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 I: ELECTRICAL 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.

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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.

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** Mithal G K,1998

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