

DC CIRCUITS

- ① Current - Flow of electron in a closed circuit is called current or amount of charge passing through the conductor in unit time also called current.

$$I = \frac{Q}{t}$$

- ② Potential or voltage - The capacity of charge body to do work is called potential or voltage.

$$V = \frac{W}{Q} = \frac{\text{Joule}}{\text{Coulomb}} = \text{volt}$$

- ③ Potential difference - The difference of electrical potential between two charged bodies is called potential difference.

- ④ Electromotive force - The force required to move the electron from negative terminal to positive terminal of electrical source in electrical circuit is called EMF. Its unit is volt and denoted by E.

Basic Electrical Engineering Vtu Notes

M Woodhall



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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 *Emerging Research in Computing, Information, Communication and Applications* N. R. Shetty, L. M. Patnaik, H. C. Nagaraj, Prasad N. Hamsavath, N. Nalini, 2021-11-30 This book presents the proceedings of International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2020 The conference provides an interdisciplinary forum for researchers professional engineers and scientists educators and technologists to discuss debate and promote research and technology in the upcoming areas of computing information communication and their applications The book discusses these emerging research areas providing a valuable resource for researchers and practicing engineers alike **Futuristic Communication and Network Technologies** A. Sivasubramanian, Prasad N. Shastry, Pua Chang Hong, 2021-10-11 This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies CFCNT 2020 conducted at Vellore Institute of Technology Chennai It covers various domains in communication engineering and networking technologies This volume comprises of recent research in areas like optical communication optical networks optics and optical computing emerging trends in photonics MEMS and sensors active and passive RF components and devices antenna systems and applications RF devices and antennas for microwave emerging technologies wireless communication for future networks signal and image processing machine learning AI for networks internet of intelligent things network security and blockchain technologies This book will be useful for researchers professionals and engineers working in the core areas of electronics and communication *Proceedings of the First Artificial Intelligence Summit on Smart Sustainable Society* Sohail S. Chaudhry, B. Surendiran, C. Vidya Raj, 2024-12-02 The book includes proceedings of AI Summit 2023 Towards a Smart Sustainable Society which serve as a collaborative platform for diverse communities to address and resolve societal challenges using Artificial Intelligence This book enables experts and researchers to evaluate the advantages of AI driven technological transformations It covers an extensive array of topics in artificial intelligence and machine learning including deep learning image processing convolutional neural networks advanced neural networks sensors Internet of Things IoT and genetic algorithms **Emerging Research in Electronics, Computer Science and Technology** V. Sridhar, M.C.

Padma,K.A. Radhakrishna Rao,2019-04-24 This book presents the proceedings of the International Conference on Emerging Research in Electronics Computer Science and Technology ICERECT organized by PES College of Engineering in Mandya Featuring cutting edge peer reviewed articles from the field of electronics computer science and technology it is a valuable resource for members of the scientific research community *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 **The National Union Catalogs, 1963- ,1964** **Basic Electrical Engineering (As Per Vtu Syllabus)** C.L. Wadhwa,2007-01-01 *The National Union Catalog, Pre-1956 Imprints* ,1977 National Union Catalog ,1956 Includes entries for maps and atlases **Union List of Serials in Libraries of the United States and Canada: January 1941-December 1943** ,1943 Union List of Serials in Libraries of the United States and Canada ,1941 Companies and Their Brands ,1994 New Serial Titles, Classed Subject Arrangement ,1979 **Union List of Serials in Libraries of the United States and Canada** Gabrielle Ernits Malikoff,1945 **National Union Catalog, 1982** ,1983 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 New Serial Titles ,1981 Advances in Renewable Energy and Electric Vehicles Suryanarayana Kajampady,Vinu Thomas,P. Parthiban,2026-03-02 This book includes select peer reviewed proceedings from the International Conference on Advances in Renewable Energy and Electric Vehicles AREEV 2023 It emphasizes the applications of electric vehicles which are set to dominate the transportation sector by replacing conventional internal combustion engine ICE vehicles Additionally the book examines research related to power quality issues arising from vehicle to grid integration along with the challenges

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