

## Fundamentals Of Electrical Engineering Ppt

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4 2 BASIC ELECTRICAL CIRCUITS 2.1 INTRODUCTION Electric circuit theory and electromagnetic theory are the two fundamental theories upon which all branches of electrical engineering are built. Many branches of electrical engineering, such as power, electric machines, control, electronics, communications, and instrumentations, are based on electric circuit theory.

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Power and Energy in a resistive circuit Power is equal to the current multiplied by the voltage and the unit of power is watt (W)  $P = I \times E$  (W) Energy is equal to the power multiplied by the time for the circuit being energized. The unit is Joule (J).  $\text{Energy} = P \times t$  (J) Fundamental of Electricity.

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Electrical Charges. Opposite electrical charges always attract each other. So particles with opposite charges will tend to move toward each other. LIKE electrical charges always repel. So particles with like charges will move away from each other. Atoms always try to remain electrically balanced. 14 Balanced Atoms

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From its beginnings in the late nineteenth century, electrical engineering has blossomed from focusing on electrical circuits for power, telegraphy and telephony to focusing on a much broader range of disciplines. However, the underlying themes are relevant today: Powercreation and transmission and information

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File Type PDF Fundamentals Of Electrical Engineering Ppt A voltage source provides the energy (or work) required to produce a current  $\text{Volts} = \text{joules/Coulomb} = dW/dQ$  A source takes charged particles (usually electrons) and raises their

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The material in this presentation is based on Chapter 1, entitled, "Fundamentals of Engineering Electromagnetics Revisited," by the author, in Handbook of Engineering Electromagnetics, Marcel Dekker, 2004. I wish to express my appreciation to the following staff members of the Department of Electrical and Computer Engineering at

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for Electronics & Communication Engineering (ECE) students and also who are all having an interest to develop their knowledge in the field of Communication Innovation. This Book provides an clear examples on each and every topics covered in the contents of the book to provide an every user those who are read to develop their knowledge.

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