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1. Basic Electrical Engineering – By M.S.Naidu and S. Kamakshiah TMH. 2. Basic Electrical Engineering By T.K.Nagasarkar and M.S. Sukhija Oxford University Press. 3. Electrical and Electronic Technology by hughes Pearson Education. REFERENCES : 1. Theory and Problems of Basic Electrical Engineering by D.P.Kothari & I.J. Nagrath PHI. 2.

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branch as ECE, CEC, Civil, Mechanical, and more (except BT). This subject provides an exceptional appearance to the entire extent of topics like Electricity Fundamentals, Network Theory, Electromagnetism, Electrical Machines, Transformers, Measuring Instruments, Power Systems, Semiconductor Devices, Digital Electronics, and Integrated Circuits.

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But, what is electricity really? Let ' s start with three very basic concepts of electricity: namely, electric charge, electric current, and electric circuit. Electric charge refers to a fundamental property of matter that even physicists don ' t totally understand. Suffice it to say that two of the tiny particles that make up atoms — protons and electrons — are the bearers of electric charge.

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In its simplest terms, electricity is the movement of charge, which is considered by convention to be, from positive to negative. No matter how the charge is created, chemically (like in batteries) or physically (friction from socks and carpet), the movement of the discharge is



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electricity.

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While both mechanisms work on the same basic principle of converting mechanical energy into electrical engineering, the differences are as follows- Alternator : An alternator uses a rotating stationary armature, which is magnetic, for releasing higher voltage and a stationary magnetic field with an armature that is rotating, for releasing lower voltage.

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Also Known as: Electric Circuits, Principles of Electrical Engineering, Electrical Circuit, Electrical Science, Electrical Circuit Analysis, Basic Electrical and Instrumentation Engineering, Basic Electrical Electronics and Measurement

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Dr Nagsarkar and Dr Sukhija have also jointly author ed Basic Electrical and Electronics Engineering (OUP , 2012), Power System Analysis 2e (OUP 2014), and Circuits and Networks: Design, Analysis ...

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Electronics comprises the physics, engineering, technology and applications that deal with the emission, flow and control of electrons in vacuum and matter. It uses active devices to control electron flow by amplification and rectification, which distinguishes it from classical electrical engineering which uses passive effects such as resistance, capacitance and

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inductance to control current flow.

## ~~Electronics~~—Wikipedia

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In recent years Basic Electrical Engineering: Principles, Designs & Applications are being used extensively in Electrical Engineering, Microprocessor, Electrical Drives and Power Electronics research and many other things. This rapid progress in Electrical & Electronics Engineering has created an increasing demand for trained Electrical Engineering personnel. This book is intended for the undergraduate and postgraduate students specializing in Electronics Engineering. It



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will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind electronics engineering are explained in a simple, easy- to- understand manner. Each chapter contains a large number of solved example or problem which will help the students in problem solving and designing of Electronics system. This text book is organized into thirteen chapters. Chapter-1: AC and DC Circuit Analysis Chapter 2: Network Reduction and Network Theorems Chapter-3: Resonance and Coupled CircuitsChapter-4: TransformerChapter-5: Three Phase CircuitsChapter-6: Electrical Generator and MotorChapter- 7: Switchgear, Protection & Earthing SystemChapter- 8: Electricity Usage Monitors, Power Factor Correction and Basics of Battery & Its applications The book Basic Electrical

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Technology, Electronics & Instrumentation Engineering and Electrical & Electronics Engineering. I will appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come.

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