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learn about electricity circuit theory and introductory electronics we also have sections that let you get down and dirty with household items from building your own robot to videos where we disassemble household items to see what s inside

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electricity is a form of energy involving the flow of electrons all matter is made up of atoms which has a center called a nucleus the nucleus contains positively charged particles called protons and uncharged particles called neutrons

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a summary of the math and science preparation that will help you have the best experience with electrical engineering taught on khan academy become familiar with engineering numbers and notation and learn about the two most important electrical quantities current and voltage

## **electricity wikipedia**

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electricity is the set of physical phenomena associated with the presence and motion of matter possessing an electric charge electricity is related to magnetism both being part of the phenomenon of electromagnetism as described by maxwell s equations

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electricity phenomenon associated with stationary or moving electric charges electric charge is a fundamental property of matter and is borne by elementary particles in electricity the particle involved is the electron which carries a charge designated by convention as negative

## ***basic electrical quantities current voltage power***

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voltage and current are the cornerstone concepts in electricity we will create our first mental models for these basic electrical quantities we will also talk about power which is what happens when voltage and current act together

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electricity is a controllable and convenient form of energy used in the applications of heat light and power today the united states u s electric power industry is set up to ensure that an adequate supply of electricity is available to meet all demand requirements at any given instant

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an electric circuit includes a device that gives energy to the charged particles constituting the current such as a battery or a generator devices that use current such as lamps electric motors or computers and the connecting wires or transmission lines

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whereas the previous two chapters concentrated on static electricity and the fundamental force underlying its behavior the next few chapters will be devoted to electric and magnetic phenomena involving current

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module 1 is a comprehensive introduction to electricity and electrical theory it is designed to be read by anyone but also to have value for engineers and people with advanced degrees lesson 1 begins with an in depth exploration of electricity

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in this chapter we will develop the concepts of electric fields and electric potential also known as voltage which are used to describe electric fields and

electrical energy

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a simple introduction to electronics how does it differ from ordinary electricity what are electronic components and what can you do with them

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hilaroad com video this video explains electricity as the flow of atomic particles called electrons animations demonstrate electron flow batteries are described as

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introduction 1 1themes1 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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electric circuits current flows through wires and electrical components in a circuit flow is driven by the voltage drop and goes from high to low potential in a battery the high potential is the electrode and the low potential is the electrode

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this course provides an integrated introduction to electrical engineering and computer science taught using substantial laboratory experiments with mobile robots

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electrical engineering with a focus on electronics you will measure and model electrical devices analyze electrical circuits construct electrical systems design a control system for your own autonomous vehicle the laboratory provides a hands on opportunity to showcase your skills

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this course is an introductory subject in the field of electric power systems and electrical to mechanical energy conversion electric power has become increasingly important as a way of transmitting and transforming energy in industrial military and transportation uses

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fundamentals of electrical engineering texts provide an introductory overview of the basic concepts and applications of electrical engineering

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