

# What is electronics wikipedia

What is electronics?

Electronics refers to the branch of science and technology that deals with the behavior, control, and movement of electrons in various devices and...

How does electronics work?

Electronics operates by manipulating the flow of electrons through materials such as conductors, semiconductors, and insulators. Electric currents...

What are electronic components?

Electronic components are basic parts used to build electronic circuits and systems. These include resistors, capacitors, inductors, diodes, transi...

What is the difference between analog and digital electronics?

Analog electronics deals with continuous signals and quantities, while digital electronics deals with discrete signals represented as binary code (...)

What are some common examples of electronic devices?

Common electronic devices include smartphones, laptops, televisions, radios, microwave ovens, digital cameras, calculators, and GPS systems. These...

What is electricity?

Electricity is the flow of electrons (negative charge) through a conductor, generating power to perform some work.

What is a resistor and what does it do?

A resistor is an electronic component that limits or controls the flow of electrical current in a circuit, to manage voltage and current levels.

What are the basic components of an electronic circuit?

The basic components of an electronic circuit include resistors, capacitors, inductors, diodes, transistors, and power sources such as batteries or...

How does a capacitor work?

A capacitor stores and releases electrical energy. It consists of two conductive plates separated by an insulating material, capable of storing cha...

What is a diode and what is its purpose?

A diode is a two-terminal electronic component that allows current to flow in only one direction. It is generally used to convert AC (alternating c...

What is Ohm's Law and how is it used in electronics?



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Ohm's Law relates voltage (V), current (I), and resistance (R) in a circuit through the equation  $V = I \cdot R$ ; R. It is a fundamental principle used to c...

How do transistors work and what are their applications?

A transistor is a semiconductor device that can amplify or switch electronic signals and electrical power. It works by controlling the flow of curr...

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Electronics, branch of physics and electrical engineering that deals with the emission, behaviour, and effects of electrons and with electronic devices. Electronics encompasses an exceptionally broad range of technology. The ...

Electronics Definition - Electronics is the branch of science that deals with the study of flow and control of electrons (electricity) and the study of their behavior and effects in vacuums, gases, and semiconductors, and with ...

Electronics is the study of electrical circuits consisting of active electrical components such as transistors, diodes, integrated circuits (IC), vacuum tubes, silicon-controlled rectifiers (SCRs). These components manipulate the ...

Digital electronics and logic design form the backbone of modern computing systems, controlling everything from smartphones to advanced computers. Digital electronics focuses on circuits that process binary data (0s ...

Power electronics can be defined as the application of solid-state electronics for the control and conversion of electrical power. Power electronics is a technology for the conversion, regulation, and management of electric ...

Electrical and electronics engineering is the branch of engineering concerned with practical applications of electricity in all its forms. Electronics engineering is the branch of electrical engineering which deals with the uses ...

List of Types of Basic Electronic Components, Functions, Symbols. Basic Electronic Components are electronic devices or parts usually packaged in a discrete form with two or more connecting leads or metallic pads.



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Power electronics is the technology for efficient conversion, control, and management of electric power and to control the flow of electrical energy. Power electronics are used in everything from laptop chargers to inverters ...



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