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[Electronic Devices And Circuits](#)
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Circuit protection devices are safety components used in a variety of applications, ranging from smartphones and laptops to medical and wireless communications equipment. These components include electrostatic discharge (ESD) protection devices, surge protectors, fuses, and circuit breakers.

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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 inductance to control current flow.

Electronics - Wikipedia

Typically, practical circuit design and evaluation demands an awareness of semiconductor units, integrated circuits, magnetics, DSP, and feedback control. In this article there exists electricity and magnetism recommendation, basic electronic formulas for devices and components, as well as other critical information.

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Design and lab exercises are also significant components of the course. 6.002 is worth 4 Engineering Design Points. The 6.002 content was created collaboratively by Profs. Anant Agarwal and Jeffrey H. Lang. The course uses the required textbook *Foundations of Analog and Digital Electronic Circuits*.

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After finishing this step, you should be able to look at a very simple circuit and understand how the current flows and how the voltage is divided among the components.

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This is a simple circuit which helps in finding out any letter dropped in our box by stopping the LED lights attached in this circuit. **Clap Switch Circuit for Devices:** This is another simple but very useful circuit which helps to ON or OFF a device without moving from your place and helps to control the speed of the electric devices like a fan ...

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Basic Electronic Components Used in Circuits

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