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Electronic engineering (also called electronics and communications engineering) is an electrical engineering discipline which utilizes nonlinear and active electrical components (such as semiconductor devices, especially transistors and diodes) to design electronic circuits, devices, integrated circuits and their systems. The discipline typically also designs passive electrical components ...

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Electric Circuits Theory and Applications. The book has grown out of the author's experience as a teacher and an electrical engineer. Topics covered includes: Calculation of Short-circuit Currents in Networks, Transformer Impedance and Equivalent Circuits, Unbalanced Circuits, Transformers with Unbalanced Loading, Induction Motors on Unbalanced Voltages, The Short Transmission Line in the ...

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#### **Optoelectronics Devices with their Applications**

This LPS has many applications. A linear power supply requires larger semiconductor devices to regulate the output voltage and generates more heat resulting in lower energy efficiency. Linear power supplies have transient response times up to 100 times faster than the others, which is very important in certain specialized areas.

#### **Boylestad & Nashelsky, Electronic Devices and Circuit ...**

Stretchable electronic circuits are critical for soft robots, wearable technologies and biomedical applications. Development of sophisticated stretchable circuits requires new materials with ...

#### **Highly stretchable multilayer electronic circuits using ...**

Op-Amps or Operational Amplifiers are called as the workhorse of Analog circuits. There are many types of Op-Amp IC, but the most commonly used ones are the LM358 and LM741. Based on the circuit design, Op-Amps can be configured for many applications like Amplifiers, Comparators, Integrators, Differentiators, Summer, Voltage Follower etc..

#### **Electrical and Computer Engineering**

Semiconductor Devices and Circuits, Applications The Semiconductor device is made up of a material that is neither a good conductor nor a good insulator, it is called a semiconductor. Such devices have established wide applications because of their reliability, compactness, and low cost.

#### **DuPont Electronic Solutions | Electronic Materials**

The unprecedented mass appeal of portable devices has led producers to create ultra-tough glass that does not break when dropped. Glass powder is also added in thick film paste for metallization of electronic components, whereas glass seals are used in certain applications to protect electronic devices from the environment.

**Ceramics and Glass in Electrical and Electronic Applications**

The International Journal of Numerical Modelling: Electronic Networks, Devices and Fields provides a communication vehicle for numerical modelling methods and data preparation methods associated with electrical and electronic circuits and fields.. Read the journal's full aims and scope

**Electronic engineering - Wikipedia**

Photodiodes are used in many types of circuits and different applications such as cameras, medical instruments, safety equipments, industries, communication devices and industrial equipments. Solar Cells. A solar cell or photo-voltaic cell is an electronic device that directly converts sun's energy into electricity.

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