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...

~~Boylestad & Nashelsky, Electronic Devices and Circuit ...~~

The circuits that interface or translate between analog circuits and digital circuits are known as the mixed-signal circuits.

Advantages of Semiconductor Devices As semiconductor devices have no filaments, hence

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no power is needed to heat them to cause the emission of electrons.

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Semiconductor Devices, an open

educational resource (OER). The

goal of this text, as its name

implies, is to allow the reader to

become proficient in the analysis

and design of circuits utilizing

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discrete semiconductor devices. It progresses from basic diodes through bipolar and field effect transistors.

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dissidents

A semiconductor diode is a device typically made from a single p-n junction. At the junction of a p-type and an n-type semiconductor there forms a depletion region where current conduction is inhibited by the lack of mobile charge carriers. When the device is forward biased (connected with the p-side at higher electric potential than the n-side), this depletion region is diminished, allowing ...

~~Semiconductor device~~ — Wikipedia

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The discovery of semiconductors, the invention of transistors and the creation of the integrated circuit are what make Moore's Law -- and by extension modern electronics -- possible. Before the invention of the transistor, the most widely-used element in electronics was the vacuum tube. Electrical engineers used vacuum tubes to amplify electrical signals.

~~Semiconductors, Transistors and Integrated Circuits ...~~

This feature may define the semiconductor property of the material, however it would be interesting to know how a semiconductor works between a conductor and an insulator.

Resistivity According to Ohm's

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Law, the electrical resistance of an electronic device is defined as the ratio of the potential difference across the component to the current ...

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The market for semiconductor devices for high-temperature applications is growing rapidly. The major factor attributed to its growth is the benefits associated with the adoption of these devices ...

~~Semiconductor Devices for High Temperature Applications ...~~

Semiconductor device, electronic circuit component made from a material that is neither a good

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Conductor nor a good insulator (hence semiconductor). Such devices have found wide applications because of their compactness, reliability, and low cost. As discrete components, they have found use in power devices, optical sensors, and light emitters, including solid-state lasers.

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