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A semiconductor material has an electrical conductivity value falling between that of a metal, like copper, gold, etc. and an insulator, such as glass. Their resistance decreases as their temperature increases, which is behaviour opposite to that of a metal. Their conducting properties may be altered in useful ways by the deliberate, controlled introduction of impurities ("doping") into the ...

### **Semiconductor - Wikipedia**

With its strong pedagogy, superior readability, and thorough examination of the physics of semiconductor material, Semiconductor Physics and Devices, 4/e provides a basis for understanding the characteristics, operation, and limitations of semiconductor devices. Neamen's Semiconductor Physics and Devices deals with the electrical properties and characteristics of semiconductor materials and ...

### **Semiconductor Physics And Devices: Basic Principles**

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### **UNDERSTANDING OPERATIONAL AMPLIFIER SPECIFICATIONS - TI.com**

1. INTRODUCTION - A transistor is a small electronic device that can cause changes in a large electrical output signal by small changes in a small input signal. That is, a weak input signal can be amplified (made stronger) by a transistor. For example, very weak radio signals in the air can be picked up by a wire antenna and processed by transistor amplifiers until they are strong enough to be ...

### **Transistor - 101science.com**

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Freescale Semiconductor, Inc. Thermal Analysis of Semiconductor Systems 7 Considering how the electrical and thermal domains differ is a good way to avoid some common misconceptions and misunderstandings.

### **Basin Principles of Thermal Analysis for Semiconductor Systems**

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## **Power MOSFET Basics: Understanding MOSFET Characteristics**

Lattice Diamond Software. Lattice Synthesis Engine is a logic-synthesis tool designed to produce the best results for low and ultra-low density FPGAs.

## **Lattice Diamond - Lattice Semiconductor**

The metal-oxide-semiconductor field-effect transistor (MOSFET, MOS-FET, or MOS FET) is a type of field-effect transistor (FET), most commonly fabricated by the controlled oxidation of silicon. It has an insulated gate, whose voltage determines the conductivity of the device. This ability to change conductivity with the amount of applied voltage can be used for amplifying or switching electronic ...

## **MOSFET - Wikipedia**

© 2007 Microchip Technology Inc. DS01080A-page 1 AN1080 INTRODUCTION All semiconductor devices have variations over process. In the case of digital potentiometer ...

## **Understanding Digital Potentiometer Resistor Variations**

RCA - Radio Corporation of America: The RCA Transistors and Semiconductor Diodes brochure from 1957 contains an introduction on semiconductor physics along with detailed specifications on Germanium PNP transistors and a few semiconductor diodes (1N34-A, 1N38-A, 1N54-A, and 1N58-A), dimensional outlines, an interchangeability directory, and example circuits.

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