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These devices are said to be neither good insulators nor good conductors, hence the name 'Semi Conductors'. The semiconductor examples include the following: op-amps; resistors; capacitors; diodes; transistors; These devices are widely used in many of the applications due to their reliability, compactness, low cost. As a discrete component, a semiconductor is used as optical sensors, power devices, light emitters, and also including the solid-state lasers.

Semiconductor Devices--Types of Semiconductor Devices

0.1 Semiconductor Devices 1. 0.2 Semiconductor Technology 6. Summary 12. PART I SEMICONDUCTOR PHYSICS. Chapter 1 Energy Bands and Carrier Concentration in Thermal Equilibrium 15. 1.1 Semiconductor Materials 15. 1.2 Basic Crystal Structures 17. 1.3 Valence Bonds 22. 1.4 Energy Bands 23. 1.5 Intrinsic Carrier Concentration 29. 1.6 Donors and ...

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Semiconductor Devices: Physics and Technology by S. M. Sze

Semiconductor Device Physics and Design UMESH K. MISHRA University of California, Santa Barbara, CA, USA and JASPRIT SINGH The University of Michigan, Ann Arbor, MI, USA

SEMICONDUCTOR DEVICE PHYSICS AND DESIGN

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