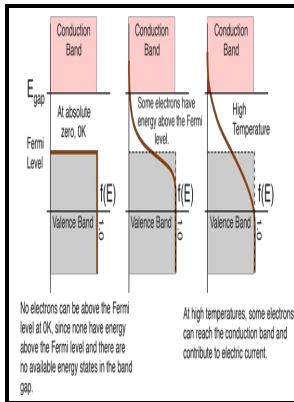


# Materials for semiconductor functions

Hayden Book Co. - Semiconductor Materials



Description: -

- Semiconductors. Materials for semiconductor functions

- Hayden series in materials for electrical and electronic design Materials for semiconductor functions

Notes: Includes bibliographies.

This edition was published in 1971



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Tags: #Semiconductor #Materials: #Types #Groups #Classifications

## What is a semiconductor

This scenario is shown in b. Semiconductor Materials There are several materials and elements used to make semiconductor.

## Applications of semiconductor in daily life & in industry

Faraday observed that the electrical resistance of silver sulfide decreased with temperature. You can refer to this figure. While it is an oversimplification of the three-dimensional potential and bandstructure in an actual semiconductor crystal, it is an instructive tool to demonstrate how the band structure can be calculated for a periodic potential, and how allowed and forbidden energies are obtained when solving the corresponding Schrödinger equation.

## Metal

The generalized voltagecurrent characteristic for a pn junction in Fig. It made with a p-n junction. The package can also help dissipate heat so that the chip can operate cooler and more reliably.

## Semiconductor Materials: Types Groups Classifications

Additional notes semiconductor materials can be found and. Conductance of a semiconductor depends on several factors such as or voltage applied to a control electrode, or on the intensity of irradiation by infrared IR , visible light, ultraviolet UV , or X rays.

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