

Intrinsic semiconductor

1. A pure, perfect semiconductor with an ideal crystal structure is called an intrinsic semiconductor.
2. Close to 0K, each tetravalent semiconductor atom has a complete octet of valence electrons by forming four covalent bonds with its nearest neighbours.

Extrinsic semiconductor

1. An intrinsic semiconductor doped with a small and controlled amount of a specific dopant, i.e., impurity atoms, is called an extrinsic semiconductor.
2. Close to 0K, each substitutional impurity atom in a tetravalent semiconductor has an incomplete bond, with the hole or the surplus electron weakly bound to the dopant atom.

Semiconductors 4ed

JA Banks



Semiconductors 4ed:

Semiconductors 4ed Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Semiconductors 4ed**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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