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Semiconductor Devices -Types of Semiconductor Devices

Handbook of Semiconductor Nanostructures and Nanodevices (5-Volume Set). American Scientific Publishers. ISBN 978-1-58883-073-9. Sze, Simon M. (1981). Physics of Semiconductor Devices (2nd ed.). John Wiley and Sons (WIE). ISBN 978-0-471-05661-4. Turley, Jim (2002). The Essential Guide to Semiconductors. Prentice Hall PTR. ISBN 978-0-13-046404-0.

Semiconductor - Wikipedia

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When a pentavalent impurity is added to a pure semiconductor, an n-type semiconductor is obtained. This is because a pure semiconductor has 4 valence electrons. When a pentavalent impurity is added, there is one electron that is free and available for conduction. This is the reason for the formation of n-type semiconductor.

Extrinsic Semiconductors - Definition, Types and ...

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Physics - Wikipedia

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Carbon (from Latin: carbo "coal") is a chemical element with the symbol C and atomic number 6. It is nonmetallic and tetravalent—making four electrons available to form covalent chemical bonds. It belongs to group 14 of the periodic table. Carbon makes up only about 0.025 percent of Earth's crust. Three isotopes occur naturally, ¹²C and ¹³C being stable, while ¹⁴C is a radionuclide ...

Carbon - Wikipedia

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Semiconductor Nanomaterials, Methods and Applications: A ...

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