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Elementary Semiconductor Physics for Transition Metal ...

The elemental semiconductors are those composed of single species of atoms, such as silicon (Si), germanium (Ge), and tin (Sn) in column IV and selenium (Se) and tellurium (Te) in column VI of the periodic table. There are, however, numerous compound semiconductors, which are composed of two or more elements.

semiconductor | Definition, Examples, Types, Materials ...

A semiconductor can be considered a material having a conductivity ranging between that of an insulator and a metal. A crucial property of semiconductors is the band gap; a range of forbidden energies within the electronic structure of the material. Semiconductors typically have bandgaps ranging between 1 and 4 eV, whilst insulators have larger bandgaps, often greater than 5 eV [1].

Introduction to Semiconductors - University of Warwick

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Elementary Semiconductor Physics Semiconductor, any of a class of crystalline solids intermediate in electrical conductivity between a conductor and an insulator. Semiconductors are employed in the manufacture of various kinds of electronic devices, including diodes, transistors, and integrated circuits.

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Here we demonstrate that the elemental semiconductor tellurium is a Weyl semiconductor, with typical Weyl signatures, including the negative longitudinal magnetoresistance, the planar Hall effect, as well as the intriguing logarithmically periodic magneto-oscillations in the quantum limit regime.

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Magnetotransport signatures of Weyl physics and discrete ...

This book describes in details the theory of the electron transport in the materials and structures at the basis of modern micro- and nano-electronics. It leads and accompanies the reader, through a step-by-step derivation of all calculations, from the basic laws of classical and quantum physics up to the most modern theoretical techniques, such as nonequilibrium Green functions, to study transport properties of both semiconductor materials and modern low-dimensional and mesoscopic structures.

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