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A semiconductor device is an electronic component that relies on the electronic properties of a semiconductor material for its function. Semiconductor devices have replaced vacuum tubes in most applications. They use electrical conduction in the solid state rather than the gaseous state or thermionic emission in a vacuum. Semiconductor devices are manufactured both as single discrete devices and as integrated circuit chips, which consist of two or more devices—which can number from the ...

Semiconductor device - Wikipedia

A suitable semiconductor adds a significant advantage to the technology industry, and the need for better, available, and tunable materials is insatiable. Of the various materials in use as semiconductor devices, the half-Heusler alloys have proved to be promising premised on the possibilities of tuning the various properties to meet the ...

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I feel like this book leaves out necessary explanations on solid state physics to appreciate or fully understand semiconductor devices. Knowing that S.M. Sze's other book "Physics of Semiconductor Devices" is used as the "bible" of semiconductors, I would have preferred that our teacher had used that book instead.

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