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Divided into three parts, it covers the basic properties of semiconductors and processes, emphasizing silicon and gallium arsenide; the physics and characteristics of semiconductor devices, bipolar and unipolar devices, and special microwave and photonic devices; and the latest processing technologies, from crystal growth to lithographic pattern transfer.

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A semiconductor device is an electronic component that relies on the electronic properties of a semiconductor material (primarily silicon, germanium, and gallium arsenide, as well as organic semiconductors) for its function. Semiconductor devices have replaced vacuum tubes in most applications.

Semiconductor device - Wikipedia

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