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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

《半导体物理与器件》(第3版)是微电子技术领域的基础教程。全书涵盖了量子力学、固体物理、半导体材料物理以及半导体器件物理等内容，共分为三部分，十五章。第一部分介绍基础物理，包括晶体晶格结构、量子力学和固体物理；第二部分介绍半导体材料物理，主要讨论平衡态和非平衡态半导体 ...

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