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part to add some material on semiconductor devices and technology and in part to in-crease the breadth of the course and improve its links to other parts of the ECE curricu- ... the most essential device physics. Chapter 2 introduces the basic processes of semicon-ductor device fabrication and describes the process flow of an SOI CMOS process. This

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


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A semiconductor device is an electronic component that exploits the electronic properties of semiconductor material, principally silicon, germanium, and gallium arsenide, as well as organic semiconductors. 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 device - Wikipedia

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