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Thursday, February 12, 2009

10:14 AM 1 Electrons and

Holes in Semiconductors

CHAPTER OBJECTIVES This

chapter provides the basic  
concepts and terminology for  
understanding

semiconductors. Of

particular importance are

the concepts of energy band,

the two kinds of electrical

charge carriers called

electrons and holes, and how

the carrier concentrations

can be controlled with the

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An integrated circuit or monolithic integrated circuit (also referred to as an IC, a chip, or a microchip) is a set of electronic circuits on one small flat piece (or "chip") of semiconductor material that is normally silicon. The integration of large numbers of tiny MOS transistors into a small chip results in circuits that are orders of magnitude smaller, faster, and less expensive than those ...

**Integrated circuit -  
Wikipedia**

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## **Modern Semiconductor Devices for Integrated Circuits ...**

Large scale integrated

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circuits generally mean semiconductor integrated circuits (IC) with 1000 or more elements. They are also called LSIs (Large Scale Integrated circuit). A microcontroller realizes functions of a computer using LSIs.

## **History of Microcontrollers: Large Scale Integrated ...**

A transistor is a semiconductor device used to amplify or switch electronic signals and electrical power. It is composed of semiconductor material usually with at least three terminals for connection to an external circuit. A voltage or current applied

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to one pair of the transistor's terminals controls the current through another pair of terminals. Because the controlled (output) power can be ...

## **Transistor - Wikipedia**

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1. Chapter 1 Visualization

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of the Silicon Crystal 1.1  
(a) Please refer to Figure 1-2. The 8 corner atoms are shared by 8 unit cells and therefore contribute 1 atom. Similarly, the 6 face atoms are each shared by 2 unit cells and contribute 3 atoms.

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