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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 addition of  
dopants.

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1.2 Bond Model of Electrons and Holes 4. 1.3  
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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 ...

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## **Integrated circuit - Wikipedia**

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Large scale integrated 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

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semiconductor material usually with at least three terminals for connection to an external circuit. A voltage or current applied 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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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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