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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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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 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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Modern Semiconductor Devices for Integrated Circuits 1st Edition Hu Solutions Manual. 1. Chapter 1 Visualization 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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