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and holes are the major characters in the play and carry opposite charge. Their mass however is altered from the mass of an electron in vacuum. The altered mass is called effective mass,  $m_n$  and  $m_p$  4.

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CHAPTER

OBJECTIVES This  
chapter provides the  
basic concepts and  
terminology for  
understanding

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Chemistry

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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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

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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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Large scale integrated  
circuits generally mean

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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.

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Microcontrollers: Large  
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A transistor is a

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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



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through another pair of terminals. Because the controlled (output) power can be ...

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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

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contribute 1 atom.  
Similarly, the 6 face  
atoms are each shared  
by 2 unit cells and  
contribute 3 atoms.

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