

## Modern Semiconductor Devices For Integrated Circuits Solution

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Modern Semiconductor Devices for Integrated Circuits Calvin Hu fHu\_ch01v4.fm Page 1 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 addition of dopants.

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Modern Semiconductor Devices for Integrated Circuits. 3. Electrons 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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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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