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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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AlGaAs window layer on GaAs passivates the surface states and thereby increases the photogeneration efficiency
A heterojunction solar cell between two different bandgap semiconductors (GaAs and AlGaAs) (a) n-p AlGaAs/GaAs 2 eV E_c E_v E_c E_v (b) 1.4 eV

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