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Lecture 27 Ion Implantation ~~Lecture 73 Drain Induced Barrier Lowering (DIBL)~~ Lecture 67 Scaling MOSFETs - Moore's Law Lecture 33 The Continuity Equation in a Semiconductor Lecture 4 Concepts from Quantum Mechanics for Semiconductor Devices

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Modern Semiconductor Devices for Integrated Circuits Chenming 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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AlG aAs window layer on G aAs passivates the surface states and thereby increases the photogeneration efficiency  
A heterojunction solar cell between two different bandgap semiconductors (G aAs and AlG aAs) (a) n p AlG aAs G aAs 2 eV E c E v E c E v (b) 1.4 eV

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Modern Semiconductor Devices for Integrated Circuits. 1.1 Silicon Crystal Structure 1. 1.2 Bond Model of Electrons and Holes 4. 1.3 Energy Band Model 8. 1.4 Semiconductors, Insulators, and Conductors 11. 1.5 Electrons and Holes 12.

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