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Lecture 37 PN Junction PhotovoltaicsLecture 39 Spectral Width Of An LED EEEN-E4901- Semiconductor Devices Course Preview Lecture 34 LED Basics semiconductor device fundamentals #1 Lecture 16 Carrier Drift in SemiconductorsLecture 16 Doping Semiconductors

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Lecture 27 Ion ImplantationLecture 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

Lecture 75 Minimizing DIBL by Reducing Depletion Width

Lecture 76 Minimizing DIBL by Reducing Junction DepthLecture 30 Depletion Width And Built-In Potential in a PN Junction

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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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Modern Semiconductor Devices for Integrated Circuits Chapter 4. PN and Metal-Semiconductor Junctions aIG 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 aIG aAs) (a) n p aIG 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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