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*S Wang, Fundamentals of Semiconductor Theory and Device Physics, Englewood Cliffs, NJ: Prentice Hall, 1989 Robert Pierret, "Semiconductor Device Fundamentals", 1st ndor 2 ed [1996, Addison-Wesley or 2002, McGraw-Hill] IV EDUCATIONAL OBJECTIVES

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1 A Primer on Semiconductor Fundamentals - nanoHUB

For an introduction to semiconductor fundamentals and to semiconductor devices, see: [1] Robert F Pierret Semiconductor Device Fundamentals, 2nd Ed, Addison-Wesley Publishing Co, 1996 For a more advanced treatment of semiconductor fundamentals: [2] Robert F Pierret Advanced Semiconductor Fundamentals, 2nd Ed, Vol VI, Modular Series on Solid-

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ECE606: Solid State Devices Lecture 1 Gerhard Klimeck gekco@purdueedu Klimeck -ECE606 Fall 2012 -notes adopted from Alam Course

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Robert F Pierret, Semiconductor Device Fundamentals, (Addison-Wesley, 1996) Additional References: Semiconductor fundamentals Crystal structures Chapter 1 Energy bands, electrons and holes, doping Chapter 2 Transport properties Chapter 3 pn Junctions

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I ECE 4214 SEMICONDUCTOR DEVICE FUNDAMENTALS Instructor: Prof Mantu Hudait, Dept of ECE, Fundamentals of Semiconductor Theory and Device Physics, Englewood Cliffs, NJ: Prentice Hall, 1989 Robert Pierret, "Semiconductor Device Fundamentals", 1st or 2nd ed [1996, Addison-Wesley or 2002, McGraw-Hill]