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### Semiconductor Physics And Devices Neamen

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Solid-State Electronics Chap 1 Instructor: Pei-Wen Li Dept of E E NCU 1 Solid-State Electronics Textbook: "Semiconductor Physics and Devices" By Donald A Neamen, 1997 Reference: "Advanced Semiconductor Fundamentals" By Robert F Pierret 1987

### **Introduction to Semiconductor Physics**

PRavindran, PHY02E Semiconductor Physics, 26 December 2012: Introduction • In order to understand the physics of semiconductor (s/c) devices, we should first learn how atoms bond together to form the solids • Atom is composed of a nucleus which contains protons and neutrons; surrounding the nucleus are the electrons

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• elementary semiconductor physics • key semiconductor material structures, phenomena and properties • operating principle of a semiconductor diode (one of the building blocks of modern integrated circuits) • common applications of the semiconductor diode in daily ...

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Introduction to Semiconductors and Semiconductor Devices A Background Equalization Lecture Reading: Notes Georgia Tech ECE 6451 - Dr Alan Doolittle Sources of Information Reading: Notes are taken from a combined source of: •Brennan - The Physics of Semiconductor Devices •Solymar and Walsh - Electrical Properties of Materials

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**Semiconductor Physics and Devices**

Text: Semiconductor Physics and Devices, 4rd Ed, Donald A Neamen (McGraw-Hill, 2012) Exams: Midterm I, Midterm II, Final Homework: assign problems once a week on Thursdays, due in a week

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