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This page contains materials for the session on semiconductors. It features a 1-hour lecture video, and also presents the prerequisites, learning objectives, reading assignment, lecture slides, homework with solutions, and resources for further study.

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Introduction to Semiconductor Devices References 1. G.W. Neudeck, The PN Junction Diode, Addison-Wesley MA 1989 2. Background notes (Appendix A) 3. Specification sheet for Diode 1N4001 (Appendix B) Introduction Simple conductors, such as many metals, obey Ohm's law, that is the current  $I$  through the material is strictly

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P.Ravindran, 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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