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Semiconductor Basics & Semiconductor Physics Tutorial

SEMICONDUCTOR PHYSICS AND DEVICES BASIC PRINCIPLES DONALD A. NEAMEN University of New Mexico IRWIN Homewood, IL 60430 Boston, MA 02116

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The diagram above shows the structure and lattice of a 'normal' pure crystal of Silicon, N-type Semiconductor Basics. In order for our silicon crystal to conduct electricity, we need to introduce an impurity atom such as Arsenic, Antimony or Phosphorus into the crystalline structure making it extrinsic (mpurities are added).

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Basics of Semiconductor Devices Dinesh Sharma Microelectronics group EE Department, IIT Bombay October 13, 2005 1. In this booklet, we review the fundamentals of Semiconductor Physics and basics of device operation. We shall concentrate largely on elemental semiconducors such as silicon or germanium, and most numerical values used for examples ...

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