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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 (impurities are added).

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