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"An Introduction to Semiconductor Devices by Donald Neamen is designed to provide a fundamental understanding of the characteristics, operations, and limitations of semiconductor devices. In order to meet this goal, the book brings together explanations of fundamental physics of semiconductor materials and semiconductor device physics."

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Lecture 1 Introduction to Semiconductor Devices Reading ...

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Preparation of semiconductor materials. The process introduces an impure atom to the system, which creates the p-n junction. In order to get the impure atoms embedded in the silicon wafer, the wafer is first put in a 1,100 degree Celsius chamber. The atoms are injected in and eventually diffuse with the silicon.

Semiconductor - Wikipedia

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