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Charge Neutrality \u0026 Example 4.9: Donald A Neamen - Semiconductor Physics \u0026 Devices**Example 7.1: Donald A Neamen - Semiconductor Physics \u0026 Devices** Diffusion Current \u0026 Example 5.4: Donald A Neamen - Semiconductor Physics \u0026 Devices Example 4.11: Donald A Neamen - Semiconductor Physics \u0026 Devices *Example 2.1: Donald A Neamen - Semiconductor Physics \u0026 Devices How does a diode work - the PN Junction (with animation) | Intermediate Electronics* Semiconductor Basics, Materials and Devices Animation | How a P N junction semiconductor works | forward reverse bias | diffusion drift current What Is A Semiconductor? ~~AT\u0026T Archives: Dr. Walter Brattain on Semiconductor Physics~~ *DigbijoyIntro Higher Physics - Semiconductors 1: intrinsic \u0026 extrinsic semiconductors* Semiconductors: What is a Semiconductor? (Physics \u0026 Theory) ~~MOS Capacitor Explained~~ *AT\u0026T Archives: Dr. Walter Brattain on Semiconductor Physics (Bonus Edition) Example 4.1: Donald A Neamen - Semiconductor Physics \u0026 Devices*

Example 4.10: Donald A Neamen - Semiconductor Physics \u0026 DevicesHeisenberg's Uncertainty Principle: Donald A Neamen - Semiconductor Physics \u0026 Devices

Velocity Saturation: Donald A Neamen - Semiconductor Physics \u0026 Devices~~Example 4.2: Donald A Neamen - Semiconductor Physics \u0026 Devices~~ *Conductivity: Donald A Neamen - Semiconductor Physics \u0026 Devices PN Junction Diode Introduction* **Semiconductors in Equilibrium: Donald A Neamen - Semiconductor Physics \u0026 Devices** Semiconductor Physics And Devices Donald
If you want a sound base in semiconductors,this book is highly recommended by me.It provides lucid and comprehensive explanations of every aspect of semiconductor physics and has remarkable pedagogy features like examples and knowledge testing questions along with review questions and problems which further promote interest towards the subject.

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An Introduction to Semiconductor Devices by Donald Neamen provides an understanding of the characteristics, operations and limitations of semiconductor devices. In order to provide this understanding, the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics. This new text provides an accessible and modern presentation of material. Quantum mechanic material is minimal, and the most advanced material is designated with an icon. This modern approach meands that coverage of the MOS transistor preceeds the material on the bipolar transitor, which reflects the dominance of MOS technology in today's world. Excellent pedagogy is present throughout the book in the form of interesting chapters openers, worked examples, a variety of exercises, key terms, and end of chapter problems.

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