

semiconductor physics and devices pdf

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Through the course of this book, the readers are guided through concepts such as quantum theory of solids, semiconductor material physics, semiconductor device physics, and quantum mechanics, which help to clear all misconceptions, and enable the student to understand the subject better.

[PDF] Semiconductor Physics And Devices By Donald Neamen

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The physics of the basic semiconductor devices is developed in Chapters 7 through 13. Chapter 7 treats the electrostatics of the basic pn junction. and Chapter 8 covers the current-voltage characteristics of the pn junction.

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Physics for the year 2000 has been awarded to two semiconductor physicists, Zhores I. Alferov and Herbert Kroemer (â€œfor developing semiconductor het-erostructures used in high-speed- and opto-electronicsâ€•) and a semiconductor device engineer, Jack S. Kilby (â€œfor his part in the invention of the integrated circuitâ€•).

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