

## Semiconductor Physics Devices Solution Manual Chapter 11

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Donald A. Neamen Semiconductor physics and devices basic ...  
Semiconductor Physics and Devices: Basic Principles, 4th edition Chapter 3 D. A. Neamen Problem Solutions Chapter 3 3.1 If a o were to increase, the bandgap energy would decrease and the material would begin to behave less like a semiconductor and more like a metal. If a o were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator. 3.2 wave equation is:  $2.2 \times 10^{-8} \text{ m} \times 2\pi \times 10^8 \text{ s}^{-1} = 2\pi \times 10^8 \text{ s}^{-1} \times 2.2 \times 10^{-8} \text{ m}$  Assume the solution is of the form:  $E = E_0 \exp(jkx + \omega t)$  Region ...

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