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Neamen Problem Solutions Chapter 3 3.1 If  $\alpha_0$  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  $\alpha_0$  were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator. 3.2 wave equation is:  $\nabla^2 \psi = -k^2 \psi$ ,  $\psi = A e^{j(kx - \omega t)}$  Assume the solution is of the form:  $E = E_0 e^{j(kx - \omega t)}$  Region ...

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