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Fundamentals Pierret Solutions Betty Lise Anderson is an American electrical engineer, working in the field of photonics. She has been a professor at the Ohio State University since 1990.

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Assume the wave function is separable, as shown in Equation (S1.9). Insert that into Schrödinger's equation and show that Equations (S1.10) and (S1.11) result. If the procedure is not obvious, review separation of variables from your differential equations course.

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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

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increase and the material would begin to behave more like an insulator. 3.2 wave equation is:  $\nabla^2 \psi = -\frac{2mE}{\hbar^2} \psi$  Assume the solution is of the form:  $\psi = u \exp(jkx - \omega t)$  Region ...

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