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6.732 SOLID STATE PHYSICS

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Polarizability can arise from electronic, ionic, interfacial, and orientational effects. a) Describe the differences in AC response

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In the limit of small positive P this equation will have a solution only when $Ka \ll 1$. Expand the sine and cosine to obtain in lowest order () $1 - P/Ka^2$. The energy is $E = \frac{2\hbar^2 k^2}{2m} = \frac{\hbar^2 k^2}{m}$. (b) At $k = \pi/a$ the determinantal equation is $(P/Ka) \sin Ka + \cos Ka = -1$.

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