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thought experiment in
quantum mechanics -

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#1270 - *Electronics*

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~~Determination of~~

~~Energy Bandgap of a~~

~~Semiconductor A~~

~~Particle in a One-~~

~~Dimensional Box~~

What is The

Schrödinger Equation,

Exactly?

Determination of

Band Gap Energy of

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SURESH What Is A Semiconductor?

L11.4 Finite square well. Setting up the problem.

PN Junction Band
Diagram *MOSFET*

Device Lecture:

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*1A: Silicon crystal
structures, miller
indices, fabrication*

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3.1 If α_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 a

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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: $\nabla^2 \psi = -\frac{2mE}{\hbar^2} \psi$
 $\nabla^2 \psi = -k^2 \psi$
Assume the solution
is of the form: $\psi = e^{j(kx - \omega t)}$
exp $j(kx - \omega t)$ Region ...

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Problem Solutions 26

$E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165 \text{ eV}$

so $E_3 - E_4 = 1.87 \text{ eV}$

(c) $2.54 < k a < 3$

1st point: $k a = 2.54$

2nd point: $k a = 3$

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Then $E_5 = 9.704$
 $E_6 = 13.537$ so
 $E = 3.83$ eV (d) $3 <$
 $ka < 4$ 1st point: $a =$
 3.44 2nd point: $a =$
 4 Then $E_7 = 17.799$
eV $E_8 = 24.066$ eV so
 $E = 6.27$ eV 3.10 6
 $\sin \cos \cos ? ? ? a a +$
 $a = ka$ Forbidden
energy bands (a) $ka =$
 $? ? \cos ka = ?$ 1st
point ...

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_____ 2.39 Region I:
 $V_0 = 2 \text{ V}$, $E_0 = 2 \text{ MeV}$
 $A_1 = \exp(-jk_1 x)$
 $B_1 = \exp(jk_1 x)$ incident

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