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A semiconductor material has an electrical conductivity value falling between that of a conductor, such as metallic copper, and an insulator, such as glass. Its resistivity falls as its temperature rises; metals are the opposite. Its conducting properties may be altered in useful ways by introducing impurities ("doping") into the crystal structure. When two differently-doped regions exist in the ...

Semiconductor - Wikipedia

The basic function of such a device is to switch ON and OFF the flow of electricity as and when required. A semiconductor device can perform the function of a vacuum tube with hundreds of times its volume. A single integrated circuit (IC), such as a microprocessor chip, can do the work of a set of vacuum tubes.

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 $E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165 \text{ eV}$ so $E_4 - E_3 = 1.87 \text{ eV}$ (c) $2? < k_a < 3?$ 1st point: $?a = 2.54?$ 2nd point: $?a = 3?$ Then $E_5 = 9.704 \text{ eV}$ $E_6 = 13.537 \text{ eV}$ so $E_6 - E_5 = 3.83 \text{ eV}$ (d) $3? < k_a < 4?$ 1st point: $?a = 3.44?$ 2nd point: $?a = 4?$ Then $E_7 = 17.799 \text{ eV}$ $E_8 = 24.066 \text{ eV}$ so

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?E = 6.27 eV 3.10 6 sin cos cos ? ? ? a a + a = ka Forbidden energy bands (a) ka = ? ? cos ka
= ?1 1st point ...

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A semiconductor is a substance whose resistivity lies between the conductors and insulators. The property of resistivity is not the only one that decides a material as a semiconductor, but it has few properties as follows. Semiconductors have the resistivity which is less than insulators and more than conductors.

Basic Electronics - Semiconductors - Tutorialspoint

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Problem Solutions Chapter 3 3.1 If a_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_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: $\nabla^2 \psi = -k^2 \psi$ Assume the solution is of the form: $E = u \exp(jkx)$ Region ...

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