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Semiconductor devices are electronic devices with conductivity between a good conductor and an insulator. It uses the special electrical characteristics of semiconductor materials to accomplish specific functions such as generate, control, receive, transform, and amplify signals, and convert energy. The semiconductor materials of the semiconductor device are silicon, germanium or gallium arsenide, which can be used as rectifiers, oscillators, light emitters, amplifiers, photometers, and ...

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 $v_d = (1.08) 9.11 \times 10^{-31} \times 2 \times 10^6$ or 4×10^6

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The semiconductor materials used in electronic devices are doped under precise conditions to control the concentration and regions of p- and n-type dopants. A single semiconductor crystal can have many p- and n-type regions; the p – n junctions between these regions are responsible for the useful electronic behavior.

Semiconductor - Wikipedia

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