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Integrated circuits (ICs)
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material (such as silicon) are essential parts of modern electronic devices across commercial and consumer industries. These circuits must have the ability to behave as an electrically controlled on/off switch (transistor) to perform the foundational logical computations in a computer.

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Solutions $N_d = v_d$
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$= 2.4 \times 10^4 \text{ cm} / \text{s}$ Then
 $1 \times 10^{17} \text{ cm}^{-3} - 3 \times 10^{17} \text{ cm}^{-3}$
 $= \mu_n v_d = (1.08)$
 $9.11 \times 10^{17} \text{ cm}^{-3}$ or $4 \times 10^{17} \text{ cm}^{-3}$

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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

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semiconductor crystal can have many p- and n-type regions; the p-n junctions between these regions are responsible for the useful electronic behavior.

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junction, junction
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