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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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$= 2.4 \times 10^4 \text{ cm}^2/\text{s}$ Then
 $1 \times 10^{17} \text{ cm}^{-3} - 3.1 \times 10^{17} \text{ cm}^{-3}$
 $= n - n_0 = (1.08) \times 10^{17} \text{ cm}^{-3}$
 $9.11 \times 10^{17} \text{ cm}^{-3}$ or $4.1 \times 10^{17} \text{ cm}^{-3}$

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