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From $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$ which can be rewritten as $N_D - N_A = N_C \exp [- (E_c - E_F) / kT]$ Then $N_D - N_A = 2.86 \times 10^{19} \exp (- 0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$ or $N_D = 1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$ A compensated semiconductor can be fabricated to provide a specific Fermi energy level. 15.

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 $a + a = ka$ Forbidden energy bands (a) $ka = \cos ka = -1$ 1st point ...

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