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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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