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$g / cm^3 = 6.02 \times 10^{23} \times 28.09 \times 10^{-24} = 17.08 \times 10^{-2} = 1.708 \times 10^{-1} = 0.1708 \text{ g/cm}^3$

$\rho = 2.33 \text{ g/cm}^3$ .  $k_0 = 0.8$  for boron in silicon  $M_0 = 0.5$  The density of Si is

$2.33 \text{ g/cm}^3$ . The acceptor concentration for  $\rho = 0.01 \Omega\text{-cm}$  is

$9 \times 10^{18} \text{ cm}^{-3}$ . The doping concentration  $C_{Si}$  is

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