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(Neamen)solution manual for semiconductor physics and ...

ANSWERS: Semiconductor Physics Problems 2016 Page and figure numbers refer to Semiconductor Devices – Physics and Technology, 3rd edition, by SM Sze and M-K Lee 1. (a) 5 1010 cm⁻³ (b) No, most probably not. The lowest possible number of impurities exceeds the in-trinsic carrier concentration by a factor 5, so most probably the mix of impurities

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5. n-Si of a p-nSi junction has a resistivity of $1 \Omega\text{cm}$. What should be the resistivity of p-Si so that 99 % of the total width of the space charge region would be located in n-Si (p+-n junction)? For the parameters needed see problem 1.

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