

## Ned Mohan Power Electronics Solutions

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Chapter 19 Problem Solutions 19-1. Intrinsic temperature is reached when the intrinsic carrier density  $n_i$  equals the lowest doping density in the pn junction structure (the n-side in this problem). Thus  $n_i(T_i) = N_d = 10^{14} = 10^{10} \exp(-\frac{qE_g}{2k} + \frac{1}{2} T_i)!$  1 300 Solving for  $T_i$  using  $E_g = 1.1$  eV,  $k = 1.4 \times 10^{-4}$

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Ned Mohan Oscar A. Schott Professor Member: National Academy of Engineering; Fellow IEEE. Department of Electrical and Computer Engineering University of Minnesota Dept Of Electrical and Computer Engr 4-174 Keller Hall 200 Union St SE Minneapolis, MN 55455 Voice: (612)-625-3362 Fax: (612)-625-4583 E-Mail: mohan[at]umn[dot]edu

#### Ned Mohan - Electrical and Computer Engineering

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Ned Mohan, Tore M. Undeland, William P. Robbins. "Power Electronics - Converters, Applications, and Design," Wiley, 2003. 3. ... • Part Two: Power Electronics Circuits or Systems - High Frequency Isolated DC / DC converters - Voltage Source Inverters VSI - Current Source Inverters CSI

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