

## 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  $n_i(T_i) = N_d = 10^{14} = 10^{10} \exp(-\frac{E_g}{kT_i})$  Solving for  $T_i$  using  $E_g = 1.1 \text{ eV}$ ,  $k = 1.4 \times 10^{-23} \text{ J/K}$

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Ned Mohan has been a leader in EES education and research for decades, as author of the best-selling text/reference Power Electronics with Wiley and a series of textbooks self-published under the MNPHERE imprint. Mohan leads a consortium of 80+ universities working to revitalize electric power engineering education.

### Power Electronics: A First Course | Wiley

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### Power electronics converters applications and design

N. Mohan, "Power Electronics Circuits - An Overview", An invited paper, IEEE/IECON Proceedings, Oct. 24-28, 1988, pp. 522-527. N. Mohan, "AC vs DC: Is 50/60 Hz the Best Option for Residence", Proceedings of the EPRI Conference on End-use and Load Management, December 1988, Scottsdale, AZ.

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