**Primer on Semiconductors: Lecture 3.3 Short Problem**

Mark Lundstrom

Purdue University, Fall 2018

Provide a numerical answer to the question below.

Assuming GaAs at 300 K, answer the following question. You may assume:









1) How far above (or below) the middle of the gap is the intrinsic Fermi level? Your answer should be in eV.