



BASIC SEMICONDUCTOR PHYSICS

ECPE 503:

ECE ELECTIVE 3 – SEMICONDUCTOR DEVICES FOR POWER ELECTRONICS

POWER ELECTRONICS TRACK

SAMPLE PROBLEM NO. 1

Energy Bands

The variation of Si and GaAs bandgaps with temperature can be expressed as $E_g(T) = E_g(0) - \alpha T^2/(T + \beta)$, where $E_g(0) = 1.17\text{eV}$, $\alpha = 4.73 \times 10^{-4} \text{ eV/K}$, and $\beta = 636\text{K}$ for Si; and $E_g(0) = 1.519\text{eV}$, $\alpha = 5.405 \times 10^{-4} \text{ eV/K}$, and $\beta = 204\text{K}$ for GaAs.

Find the bandgaps of Si and GaAs at 100K and 600K.



Basic Semiconductor Physics

Albert A Gayle



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