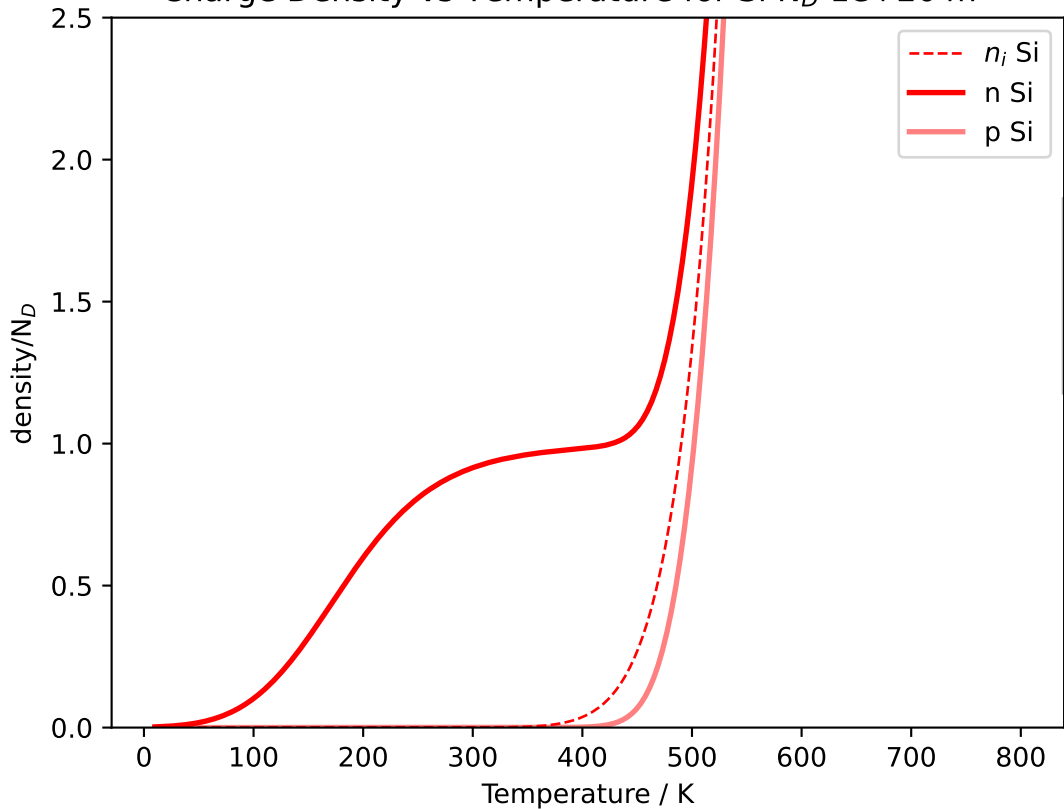


Charge Density vs Temperature for Si  $N_D$   $1e+20 \text{ m}^{-3}$



Si Param

$$E_g = 1.1$$

$$m_n^* = 1.1$$

$$m_p^* = 0.9$$