

16.1-4 (E)

- a) $p_0 = 3.2 * 10^{-4} \text{ cm}^{-3}$
- b) $\Delta n = 10^{17} \text{ cm}^{-3}$
- c) $\tau = 1\mu\text{s}$
- d) 1.433 eV

16.1-8 (P)

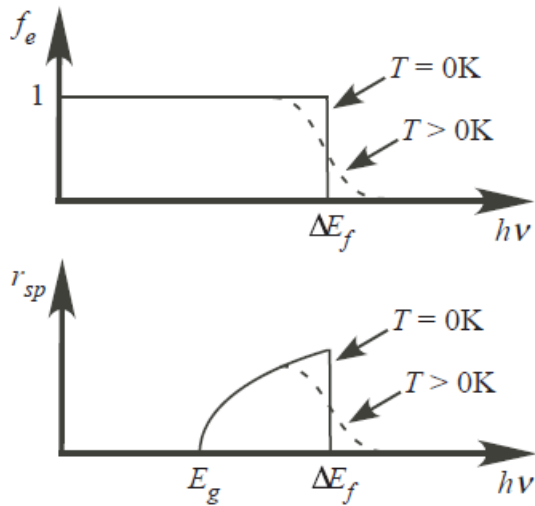
$$\Delta n(t) = \frac{\Delta n_0}{1 + r\Delta n_0 \cdot (t - t_0)}$$

16.2-1 (E)

- a) –
- b) At least one of the quasi fermi levels must lie in the corresponding band

17.1-1 (E)

- a) –
- b)



$$\underbrace{E_{fc} - E_{fv}}_{\Delta E_f}$$