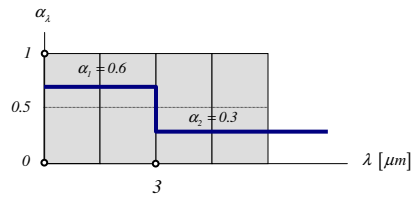


12.130 7th



$$\alpha_{solar} = 0.6, \alpha_{earth} = 0.3, \varepsilon = 0.3 \text{ check?}$$

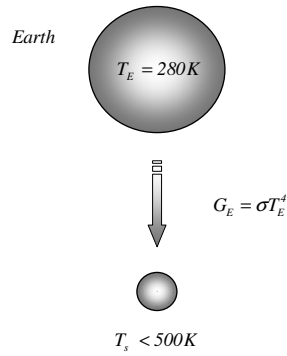
$$A_c = \frac{\pi D^2}{4} \quad \text{area which intersect irradiation}$$

$$A_s = \frac{\pi D^2}{4} \quad \text{emitting area}$$

$$E_b(T_s) = \sigma T_s^4$$

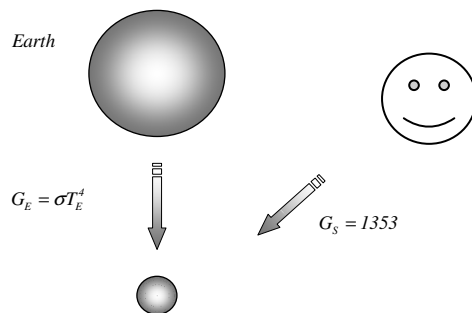
dark side

$$T_s = 5800K$$



$$\alpha_{earth} G_{earth} A_c = \varepsilon E_b(T_s) A_s$$

bright side



$$\alpha_{solar} G_{solar} A_c + \alpha_{earth} G_{earth} A_c = \varepsilon E_b(T_s) A_s$$