Problem 13-33 (7$^{\text{th}}$ Ed):

insulated

$q_2'' = 0$

T_2 $\varepsilon_2 = 1$

surroundings at T_1

laser beam H $\left[\dfrac{W}{m^2} \right]$

treat the imaginary surface as a blackbody at T_2

Solution:

E

G

H

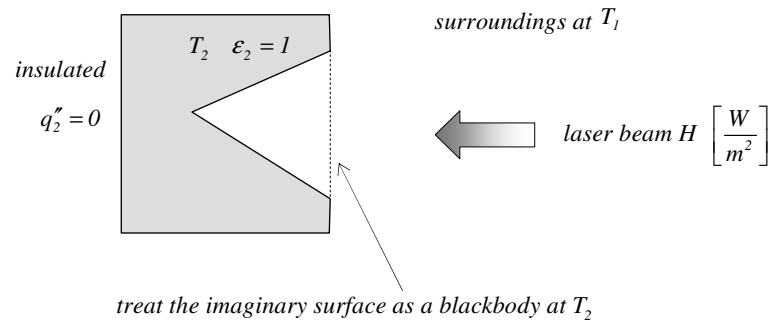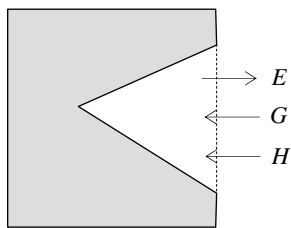**Energy balance:** $H = E - G$

Calculate: $H = \sigma\left(T_2^4 - T_1^4\right)$