

P # 36

Ch 11 - pg 355

$$A = 1.20 \text{ m}^2$$

$$L = 4.00 \text{ cm} = .04 \text{ m}$$

$$\Delta T = 15.0^\circ \text{C}$$

$$H = 10.0 \text{ J/sec}$$

$$H = \frac{k \cdot A \cdot (\Delta T)}{L}$$

$$(10.0 \text{ J/sec}) = \frac{k \cdot (1.20 \text{ m}^2)(15.0^\circ \text{C})}{(.04 \text{ m})}$$

$$k = .022 \text{ J/s}\cdot\text{m}\cdot\text{C}$$