

1-9

with the help of a psychrometric chart, using a dry bulb Temp. of 68°F and $\phi = 40\%$, we identify condensation temperature to be 42°F. Thus condensation will occur between surfaces 4 and 5.



1-10

$$1000 \begin{bmatrix} \frac{1}{h_{conv}} & 0 \\ \frac{1}{h_{rad}} & -1.47 \\ -1.47 & 1.47 + 0.053 \\ & -0.053 & 0.053 + 2.22 \\ & & -2.22 & 2.22 + 1.47 \\ & & & -1.47 & \frac{1}{h_{ext}} \end{bmatrix} \begin{Bmatrix} T_1 \\ T_2 \\ T_3 \\ T_4 \\ T_5 \end{Bmatrix} = \begin{Bmatrix} 15 \\ 0 \\ 0 \\ 0 \\ 70 \end{Bmatrix}$$

$$\{T\} = \begin{Bmatrix} 15 \\ 16.81 \\ 16.99 \\ 68.19 \\ 70 \end{Bmatrix} ^\circ F$$

$$\dot{Q} = UA \Delta T$$

As an example:

$$\dot{Q} = (1.47)(1000)(70 - 68.19) = 2660 \frac{\text{Btu}}{\text{hr}}$$

$$\dot{Q} = (1.47)(1000)(16.81 - 15) = 2660 \frac{\text{Btu}}{\text{hr}}$$

Saeed Moaveni Finite Element Analysis Solutions Manual

**Nam-Ho Kim, Bhavani V. Sankar, Ashok
V. Kumar**



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