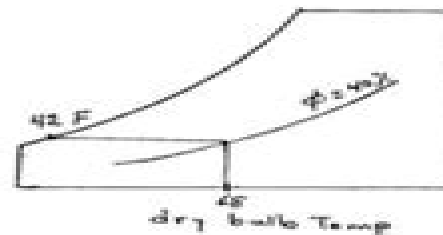


1-9

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:

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

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

Finite Element Analysis Solutions Manual

Rosina Ehmann



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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Finite Element Analysis Solutions Manual**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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