Assignment 7

1. Write the equation to model a composite heating/cooling process:

   \[ \text{Temperature} = \frac{1}{\text{Heat Transfer Coefficient} \times \text{Surface Area} \times \text{Mass Flow Rate}} \]

2. Write the equation for a simple heat exchanger:

   \[ \text{Temperature} = \frac{\text{Heat Capacity} \times \text{Temperature Difference}}{	ext{Heat Transfer}} \]

3. Write the equation for a simple heat exchanger with a temperature difference:

   \[ \text{Temperature} = \frac{\text{Heat Capacity} \times \text{Temperature Difference}}{	ext{Heat Transfer}} \]

4. A simple heat exchanger with a temperature difference:

   \[ \text{Temperature} = \frac{\text{Heat Capacity} \times \text{Temperature Difference}}{	ext{Heat Transfer}} \]

5. Write the equation for a simple heat exchanger with a temperature difference:

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