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Introduction to Thermodynamics and Heat Transfer provides balanced coverage of the basic concepts of thermodynamics and heat transfer. Together with the clear and numerous illustrations, student-friendly writing style, and manageable math, this is an ideal text for an introductory thermal science course for non-mechanical engineering majors.

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Thermal Circuit Model A model used often to calculate the heat transfer through a 1-D system is called the thermal circuit model In this model, each layer is replaced by an equivalent resistor called the thermal resistance For conduction, For convection, Mass and Mole Fraction Mass Fraction: ratio of components mass to the total mass of the mixture Mole Fraction: ratio of components moles to the total moles of the mixture  $t_i = \frac{m_i}{m} = \text{mass fraction of } i \text{ th species}$  mass of  $i$  th species ... *Introduction To Thermodynamics and Heat Transfer - Yunus ...*

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Heat transfer is a process by which internal energy from one substance transfers to another substance. Thermodynamics is the study of heat transfer and the changes that result from it. An understanding of heat transfer is crucial to analyzing a thermodynamic process , such as those that take place in heat engines and heat pumps.

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