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Assumptions: (1) temperature is uniform over plate area, (2) heat transfer coefficient is uniform over plate area
Analysis: the heat transfer coefficient rate by convection from the airstreams to the plate can be determined from Newton's law of cooling written in the form, $q = q'' \cdot A = hA(T_s - T_\infty)$ where A is the area of the plate.

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1-9C Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer when its driving force is temperature difference. 1-10C Thermal energy is the sensible and latent forms of internal energy, and it is referred to as heat in daily life.

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Heat and Mass Transfer - Tufts University

Specialized heat transfer nomenclature used for radiative heat transfer is defined in the subsection Heat Transmission by Radiation. Nomenclature for mass transfer is defined in the subsection Mass Transfer. Symbol Definition SI units U.S. customary units a Proportionality coefficient Dimensionless Dimensionless a

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1-8C The rate of heat transfer per unit surface area is called heat flux q . It is related to the

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subjects of heat transfer and the thermodynamics . Let me begin this chapter by trying to address these two questions. 1.1 Difference between heat and temperature In heat transfer problems, we often interchangeably use the terms heat and temperature . Actually, there is a distinct difference between the two.

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