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Heat and Mass Transfer: Fundamentals and Applications

Fundamentals of Momentum, Heat, and Mass Transfer 5th Edition James R. Welty Department of Mechanical Engineering Charles E. Wicks Department of Chemical Engineering Robert E. Wilson Department of Mechanical Engineering Gregory L. Rorrer Department of Chemical Engineering Oregon State University John Wiley & Sons, Inc.

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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, $q = hA(T_f - T_s)$ 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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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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