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HEAT AND MASS TRANSFER Module 1: Introduction (2)

Heat and mass transfer page 3 the way, if this example seems irrelevant to engineering and science (nothing is irrelevant to science), consider its similarity with the heat gains and losses during any temperature measurement with a typical

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Modes of mass transfer, concentrations, velocities and fluxes, Fick's law, general equation of mass diffusion in stationary media, steady state diffusion through a plain membrane, steady state equimolar counter diffusion, isothermal evaporation of water into air from a surface, mass transfer coefficient, convective mass transfer. 5

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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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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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