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For mass transfer across the hollow-fiber membrane contactors described in Example 2.13, the overall mass-transfer coefficient based on the liquid concentrations, K_L , is given by (Yang and Cussler, AIC E J., 32, 1910, Nov. 1986) where k_L , k_M , and k_G are the individual mass-transfer coefficients in the liquid, across the membrane, and in the gas, respectively; and H is Henry's law constant ...

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the rate of heat transfer. Therefore, the major part of most evaporators is similar to a heat exchanger.

Example applications: the concentration of aqueous solutions of sodium hydroxide, sodium chloride, glycerol, sugar and glue and milk. In these cases, the concentrated solution is the desired product and the vaporized water is discarded.

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Thermodynamics of heat transfer Heat transfer is the relaxation process that tends to do away with temperature gradients (recall that $T \neq 0$ in an isolated system), but systems are often kept out of equilibrium by imposed boundary conditions. Heat transfer tends to change the local state according to the energy balance, which for a closed ...

chemical industries. The most common application of heat transfer is in designing of heat transfer equipment for exchanging heat from one fluid to another fluid. Such devices for efficient transfer of heat are generally called Heat Exchanger. Heat exchangers are normally classified depending on the transfer process occurring in them. General ...

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These are lecture notes for AME60634: Intermediate Heat Transfer, a second course on heat transfer for undergraduate seniors and beginning graduate students. At this stage the student can begin to apply knowledge of mathematics and computational methods to the problems of heat transfer. Thus,

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the rate of heat transfer. Therefore, the major part of most evaporators is similar to a heat exchanger.

Example applications: the concentration of aqueous solutions of sodium hydroxide, sodium chloride, glycerol, sugar and glue and milk. In these cases, the concentrated solution is the desired product and the vaporized water is discarded.

application. 2. BASIC PRINCIPLES AND TERMINOLOGY Drying is a complex operation involving transient transfer of heat and mass along with several rate processes, such as physical or chemical transformations, which, in turn,

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