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Fundamentals of Heat and Mass Transfer: Theodore L

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Heat transfer principle. A heat sink transfers thermal energy from a higher temperature device to a lower temperature fluid medium. The fluid medium is frequently air, but can also be water, refrigerants or oil.

Heat sink - Wikipedia

Excel functions and add-ins tools for engineering design for following areas: Thermodynamics, hydraulics, piping, slurries, properties of air, saturated water, steam. Pipe dimensions, channels circular, semicircular.

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INTRODUCTION. For calculation of heat exchanger performance, if only the inlet temperatures are known, it is preferable to use the effectiveness-number of transfer units (e-NTU) method, which simplifies the algebra involved in predicting the performance of complex flow arrangements. e-NTU relations in algebraic form are useful in computational calculations for design and experimental studies.

Effectiveness-ntu computation with a mathematical model

Sensible heat. The first class called sensible heat uses the specific heat capacity to store thermal energy. Unfortunately, because the specific heat capacity of most materials is generally of two orders of magnitude lower than its latent heat, sensible heat storage is obsolete in a thermal management system.

Phase-change materials (PCM) for automotive applications

Transport theory provides an alternate interpretation of viscosity in terms of momentum transport: viscosity is the material property which characterizes momentum transport within a fluid, just as thermal conductivity characterizes heat transport, and (mass) diffusivity characterizes mass transport. To see this, note that in Newton's law of viscosity, $\tau = \mu \frac{du}{dy}$, the shear stress has units ...

Viscosity - Wikipedia

UAH Global Temperature Update for November 2017: +0.36 deg. C December 1st, 2017 by Roy W. Spencer, Ph. D.

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