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The rate of heat transfer per unit surface area is called heat flux  $q$ . It is related to the rate of heat transfer by  $q = \frac{Q}{A}$ . 1-9C Energy can be transferred by heat, work, and mass.

An energy transfer is heat transfer

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when its driving force is temperature difference.

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2-102-27 For a medium in which the heat conduction equation is given by  
 $2T_x + 2T_y + 1T_z = t(t)$  Heat transfer is

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transient, (b) it is two-dimensional, (c) there is no heat generation, and (d) the thermal conductivity is constant.

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docx. ... Electrical heater is perfectly insulated from dryer wall, (3) Heater and switch are isothermal at  $T_{set}$ , (4) Negligible heat transfer from sides of heater or switch, (5) Switch surface,  $A_s$ , loses heat ...  $W/m^2 \cdot K$ ) and a patch heater could be applied to the back of the block and insulated from below If

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conduction to both the substrate and insulation could thereby be rendered negligible, heat would be transferred ...

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1-21 A house is heated from  $10\text{ }^{\circ}\text{C}$  to  $22\text{ }^{\circ}\text{C}$  by an electric heater, and some air escapes through...



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1-1C Thermodynamics deals with the

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amount of heat transfer as a system undergoes a process from one equilibrium state to another. Heat transfer, on the other hand, deals with the rate of heat transfer as well as the temperature distribution within the system at a specified time. 1-2C  
(a) The driving force for heat transfer

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is the temperature difference. (b) The driving force for electric current flow is the

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$0.0022375z^2) \times 10^9$  for the unit of  $\text{kg}/\text{km}^3$ ) where  $z$  is the vertical distance from the earth surface at sea level. At  $z = 7 \text{ km}$ , the equation would give  $\rho = 0.60 \text{ kg}/\text{m}^3$ .

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momentum, and heat transfer constitute the fundamentals of thermofluids. This book discusses thermofluids in the context of thermodynamics, single- and two-phase flow, as well as heat transfer associated with single- and two-phase flows. Traditionally, the field of

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thermal sciences is taught in universities by requiring students to study engineering thermodynamics, fluid mechanics, and heat transfer, in that order. In graduate school, these topics are discussed at more advanced levels. In recent years, however, there have been attempts

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El- Wakil, in Nuclear Heat Transport, and Todreas and Kazimi in Nuclear Systems have pursued a similar approach. These books, however, have been designed for advanced graduate level courses. More recently, undergraduate books using an integral approach are appearing.

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