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Chapter 1 Basics of Heat Transfer 1-2 Heat and Other Forms of Energy 1-8C The rate of heat transfer per unit surface area is called heat flux  $q$ . It is related to the rate of heat transfer by  $q = \dot{Q}/A$  &  $\dot{Q} = qA$ . 1-9C Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer 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  $2T_x + 2T_y + 2T_z = 1$  T: (t) Heat transfer is transient, (b) it is two-dimensional, (c) there is no heat generation, and (d) the thermal conductivity is constant.

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fundamentals of heat and mass transfer solutions manual phần 1 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 ...  $W/m^2K$ ) and a patch heater could be applied to the back of the block and insulated from below If conduction to both the substrate and insulation could thereby be rendered negligible, heat would be transferred ...

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1-1C Thermodynamics deals with the amount of heat transfer as a system undergoes a process from one equilibrium state to another. Heat transfer, on the

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

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The results are:  $\rho(z) = a + bz + cz^2 = 1.20252 - 0.101674z + 0.0022375z^2$  for the unit of kg/m<sup>3</sup>, (or,  $\rho(z) = (1.20252 - 0.101674z + 0.0022375z^2) \times 10^9$  for the unit of kg/km<sup>3</sup>) where z is the vertical distance from the earth surface at sea level. At z = 7 km, the equation would give  $\rho = 0.60$  kg/m<sup>3</sup>.

~~Introduction to Thermodynamics and Heat Transfer...~~

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