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Abstract. This text is a collection of solutions to a variety of heat conduction problems found in numerous publications, such as textbooks, handbooks, journals, reports, etc. Its purpose is to assemble these solutions into one source that can facilitate the search for a particular problem solution. Generally, it is intended to be a handbook on the subject of heat conduction.

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direction of decreasing temperature.

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the rates of conduction and radiation  
heat transfer  $[\dot{Q}] = \dot{Q}_{\text{cond}} + \dot{Q}_{\text{rad}} = 511 \text{ W} = \dot{Q}_{\text{cond}} + \dot{Q}_{\text{rad}}$   
 $\dot{Q}_{\text{cond}} = kA \frac{T_1 - T_2}{L} = (139 \text{ W/m}\cdot\text{K})(0.02 \text{ m}) \frac{(290 \text{ K}) - (150 \text{ K})}{0.01979 \text{ m}} = 139 \text{ W}$   
 $\dot{Q}_{\text{rad}} = \epsilon \sigma A T^4 = (0.8)(0.02 \text{ m})^2 (4.24 \text{ K})^4 = 1.12 \text{ W}$   
total cond. rad.  $139 \text{ W} + 1.12 \text{ W} = 140.12 \text{ W}$   
T. L. T T Q kA. s & & & &  $\epsilon \sigma$

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Chapter 1 Basics of Heat Transfer 1-4  
1-16 A 15 cm  $\times$  20 cm circuit board  
houses 120 closely spaced 0.12 W logic  
chips. The amount of heat dissipated in  
10 h and the heat flux on the surface of  
the circuit board are to be determined.  
Assumptions 1 Heat transfer from the  
back surface of the board is negligible. 2  
Heat transfer from the front surface is  
uniform.

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where  $k/c$  is the thermal diffusivity of the material. 2- 25 For a medium in which the heat conduction equation is given in its simplest by  $T = x^2 t$ . (a) Heat transfer is transient, (b) it is one-dimensional, (c) there is no heat generation, and (d) the thermal conductivity is constant.

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First, convert the 10 degrees Celsius to Kelvin. Next, apply Fourier's Law for heat conduction to solve for heat flux.

$k=0.029 \text{ W/m-K}$ ,  $\Delta T= 283.15\text{K}$ , and  $L=0.02\text{m}$ . This will give you  $410.5675 \text{ W/m}^2$ . Part b: Multiply your heat flux by the area and you get  $1642.3\text{W}$ .

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The heat transfer coefficient is  $h$ . Surface temperature is given by  $sT = 2/1 \times A$  where  $A$  is constant. Determine the steady state heat transfer rate from the plate. (1) Observations.



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