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Fundamentals Of Heat



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The density of the cylinder is  $\rho$ , the specific heat is  $c$ , and the length is  $L$ . The area of the cylinder normal to the direction of heat transfer at any location is  $A = 2rL$  where  $r$  is the value of the radius at that location. Note that the heat transfer area  $A$  depends on  $r$  in this case, and thus it varies with location.

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## **(DOC) Heat and Mass**

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Assumptions Heat transfer from the surface of the filament and the bulb of the lamp is uniform . Analysis (a) The heat transfer surface area and the heat flux on the surface of the filament are  $A_{DL} = \pi D L = \pi (0.05 \text{ cm})(5 \text{ cm}) = 0.785 \text{ cm}^2$   
 $q_s = \frac{P}{A_{DL}} = \frac{191 \text{ W}}{0.785 \text{ cm}^2} = 242 \text{ W/cm}^2$

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A Q q & & (b) The heat flux on the surface of glass bulb is  
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area since it is defined as  $R_{conv} = 1 / (hA)$ . 3-5C Convection heat transfer through the wall is

expressed as  $Q = hA(T_{ss} - T)$ . In steady heat transfer, heat transfer rate to the wall and from the wall are equal. Therefore at the outer surface which has convection heat transfer coefficient three times.

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Yunus A. Cengel & Afshin J.

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Chapter 2 HEAT

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by-Cengel 1-88 1-150 Water

enters a pipe at  $20^\circ\text{C}$  at a rate of  $0.50\text{ kg/s}$  and is heated to  $60^\circ\text{C}$ .

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Heat transfer from the oven is three-dimensional in nature since heat will be entering through all six sides of the oven. However, heat

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transfer through any wall or floor takes place in the direction normal to the surface, and thus it can be analyzed as being one-dimensional.

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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  
conduction to both the substrate  
and insulation could thereby be  
rendered ...  
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