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(a) Calculate the heat flux through the insulated sheet. Here, is the temperature difference, is the length of the insulated sheet along the direction of heat flow, and  $k$  is the thermal conductivity.

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gradient is positive. Therefore, the heat flux is negative. The heat transfer is in the negative  $y$ -direction, the plate is being heated by the fluid.

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ASSUMPTIONS: (1)

Steady-state  
conditions, (2)

Negligible heat  
transfer from the  
wire by natural  
convection or  
radiation.

ANALYSIS: If all of  
the electric energy  
is transferred by  
convection to the  
air, the following

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equality must be satisfied.  $PE_{elec} = -IhA()TTs \infty$  where  $A = \pi DL$   
( )  $0.0005m \ 0.02m \times$   
 $= \times 3.14 \ 10 - 52 \ m.$   
Hence, #####  
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flux through a 2 ...

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conductivity,

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thickness and  
temperature  
difference across a  
sheet of rigid  
extruded  
insulation.

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the gold standard  
of heat transfer  
pedagogy for many  
decades, with a  
commitment to  
continuous  
improvement by  
four authors' with  
more than 150  
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experience in heat

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## Fundamentals

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$dT/dx = -q''/k$ , is a constant, and hence the temperature distribution is linear. The heat flux must be constant under one-dimensional,

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steady-state conditions; and  $k$  is approximately constant if it depends only weakly on temperature. The heat flux and heat rate when the outside wall temperature is  $T_2 = -15^\circ\text{C}$

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conditions exist. 2

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transfer coefficient  
is uniform. 3 Heat  
transfer by  
radiation is  
negligible. 4 Heat  
losses from the  
boiler are



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Manual is an interesting book. My concepts were clear after reading this book. All fundamentals are deeply explained with examples. I highly recommend this book to all students for step by step textbook solutions.

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