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In this process heat is generally in the liquids and gases. The heat transfer through convection is given by the relation below.

Here, is the heat transfer coefficient, is the area of surfaces not perpendicular to the direction of heat flow and is the thermal temperature.

Radiation: The heat transfer through

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radiation do not
depend on the
medium.

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Internal heat generation rate () = 105 W/m³ One side is insulated Ambient temperature on the other side (T) = 90 °C

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Convective heat
transfer coefficient (h)
 $= 500 \text{ W}/(\text{m}^2 \text{ K})$

Thermal conductivity
(k) $= 12 \text{ W}/(\text{m K})$ FIND

The maximum
temperature in the wall
(T_{max}) ASSUMPTIONS

The heat loss through
the insulation is
negligible The system
has reached steady
state One dimensional
conduction through the
wall SKETCH SOLUTION

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to be considered a classic within the field, setting the standards for coverage and organization within all other Heat Transfer texts. The book is designed for a one-semester course in heat transfer at the junior or senior level, however, flexibility in pedagogy has been provided.

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COMMENTS: Since
convection coefficients
associated with gas

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flows are generally small, concurrent heat transfer by radiation and/or conduction must often be considered. However, jet impingement is one of the more effective means of transferring heat by convection and convection coefficients well in excess of $100 \text{ W/m}^2 \cdot \text{K}$ may be achieved.

Fundamentals of Heat and Mass

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The heat loss through
the wall (q_k)

ASSUMPTIONS One
dimensional heat flow

The system has
reached steady state

SKETCH $L = 0.2 \text{ m}$ $T_i =$
 20°C $T_o = -5^\circ\text{C}$ q k L

0m $H = 3\text{m}$ SOLUTION

The rate of heat loss
through the wall is
given by Equation (1.2)

$q_k = AK L (\Delta T)$ $q_k =$
 $(10\text{m})(3\text{m}) 1.2 \text{ W}/(\text{m}$

$\text{K})(0.2\text{m}) (20^\circ\text{C} -$

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(-5°C)) $q_k = 4500 \text{ W}$
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The reader should internalize the meaning of the terminology and physical principles associated with heat transfer; The reader should be able to delineate pertinent transport phenomena for any process or system involving heat transfer; The reader should be able to use

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requisite inputs for
computing heat
transfer rates and/or
material temperatures

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