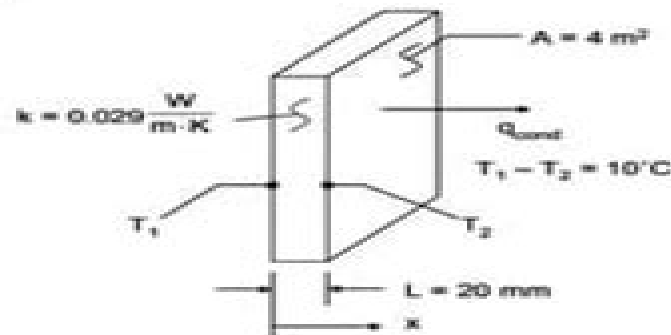


PROBLEM 1.1

KNOWN: Thermal conductivity, thickness and temperature difference across a sheet of rigid extruded insulation.

FIND: (a) The heat flux through a 2 m × 2 m sheet of the insulation, and (b) The heat rate through the sheet.

SCHEMATIC:



ASSUMPTIONS: (1) One-dimensional conduction in the x-direction, (2) Steady-state conditions, (3) Constant properties.

ANALYSIS: From Equation 1.2 the heat flux is

$$q_x'' = -k \frac{dT}{dx} = k \frac{T_1 - T_2}{L}$$

Solving,

$$q_x'' = 0.029 \frac{\text{W}}{\text{m} \cdot \text{K}} \times \frac{10 \text{ K}}{0.02 \text{ m}}$$

$$q_x'' = 14.5 \frac{\text{W}}{\text{m}^2}$$

The heat rate is

$$q_x = q_x'' \cdot A = 14.5 \frac{\text{W}}{\text{m}^2} \times 4 \text{ m}^2 = 58 \text{ W}$$

COMMENTS: (1) Be sure to keep in mind the important distinction between the heat flux (W/m^2) and the heat rate (W). (2) The direction of heat flow is from hot to cold. (3) Note that a temperature *difference* may be expressed in kelvins or degrees Celsius.

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Mechanics ,1989 **Mechanical Engineering News** ,1985 The Software Encyclopedia ,1988 **An Introduction to Frozen Ground Engineering** Orlando B. Andersland,B. Ladanyi,2013-11-11 Frozen Ground Engineering first introduces the reader to the frozen environment and the behavior of frozen soil as an engineering material In subsequent chapters this information is used in the analysis and design of ground support systems foundations and embankments These and other topics make this book suitable for use by civil engineering students in a one semester course on frozen ground engineering at the senior or first year graduate level Students are assumed to have a working knowledge of undergraduate mechanics statics and mechanics of materials and geotechnical engineering usual two course sequence A knowledge of basic geology would be helpful but is not essential This book will also be useful to advanced students in other disciplines and to engineers who desire an introduction to frozen ground engineering or references to selected technical publications in the field

BACKGROUND Frozen ground engineering has developed rapidly in the past several decades under the pressure of necessity As practical problems involving frozen soils broadened in scope the inadequacy of earlier methods for coping became increasingly apparent The application of ground freezing to geotechnical projects throughout the world continues to grow as significant advances have been made in ground freezing technology Freezing is a useful and versatile technique for temporary earth support groundwater control in difficult soil or rock strata and the formation of subsurface containment barriers suitable for use in groundwater remediation projects

Applied Mechanics Reviews ,1995 Solutions Manual for the Mechanical Engineering Reference Manual Michael R. Lindeburg,1994 *International Books in Print* ,1991

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