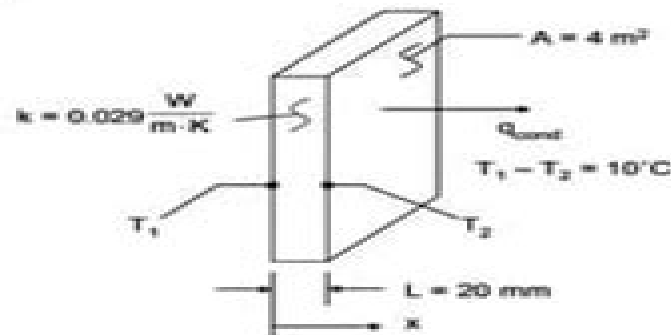


PROBLEM 1.1

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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Tuncer Cebeci,P. Bradshaw



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The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition J. N. Reddy, D.K.

Gartling, 2010-04-06 As Computational Fluid Dynamics CFD and Computational Heat Transfer CHT evolve and become increasingly important in standard engineering design and analysis practice users require a solid understanding of mechanics and numerical methods to make optimal use of available software The Finite Element Method in Heat Transfer and Fluid Dynamics Third Edition illustrates what a user must know to ensure the optimal application of computational procedures particularly the Finite Element Method FEM to important problems associated with heat conduction incompressible viscous flows and convection heat transfer This book follows the tradition of the bestselling previous editions noted for their concise explanation and powerful presentation of useful methodology tailored for use in simulating CFD and CHT The authors update research developments while retaining the previous editions key material and popular style in regard to text organization equation numbering references and symbols This updated third edition features new or extended coverage of Coupled problems and parallel processing Mathematical preliminaries and low speed compressible flows Mode superposition methods and a more detailed account of radiation solution methods Variational multi scale methods VMM and least squares finite element models LSFEM Application of the finite element method to non isothermal flows Formulation of low speed compressible flows With its presentation of realistic applied examples of FEM in thermal and fluid design analysis this proven masterwork is an invaluable tool for mastering basic methodology competently using existing simulation software and developing simpler special purpose computer codes It remains one of the very best resources for understanding numerical methods used in the study of fluid mechanics and heat transfer phenomena Fundamentals of Momentum, Heat,

and Mass Transfer James Welty, Gregory L. Rorrer, David G. Foster, 2014-09-09 Fundamentals of Momentum Heat and Mass Transfer Revised 6th Edition provides a unified treatment of momentum transfer fluid mechanics heat transfer and mass transfer The new edition has been updated to include more modern examples problems and illustrations with real world applications The treatment of the three areas of transport phenomena is done sequentially The subjects of momentum heat and mass transfer are introduced in that order and appropriate analysis tools are developed *Fundamentals of Industrial Heat Exchangers* Hossain Nemati, Mohammad Moghimi Ardekani, James Mahootchi, Josua P. Meyer, 2024-01-13 Fundamentals of Heat Exchangers Selection Design Construction and Operation is a detailed guide to the design and construction of heat exchangers in both a research and industry context This book is split into three parts firstly outlining the fundamental properties of various types of heat exchangers and the critical decisions surrounding material selection manufacturing methods and cleaning options The second part provides a comprehensive grounding in the theory and analysis of heat exchangers guiding the reader step by step toward thermal design Finally the book shows how to apply industrial codes to this process with a detailed demonstration designing a shell and tube exchanger compliant with the important but complex

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