

PROBLEM 1.8

KNOWN: Dimensions and thermal conductivity of food/beverage container. Inner and outer surface temperatures.

FIND: Heat flux through container wall and total heat load.

SCHEMATIC:



ASSUMPTIONS: (1) Steady-state conditions, (2) Negligible heat transfer through bottom wall, (3) Uniform surface temperatures and one-dimensional conduction through remaining walls.

ANALYSIS: From Fourier's law, Eq. 1.2, the heat flux is

$$q'' = k \frac{T_2 - T_1}{L} = \frac{0.023 \text{ W/m} \cdot \text{K} (20 - 2)^\circ\text{C}}{0.025 \text{ m}} = 16.6 \text{ W/m}^2 \quad \leftarrow$$

Since the flux is uniform over each of the five walls through which heat is transferred, the heat load is

$$q = q'' A_{\text{total}} = q'' [H(2W_1 + 2W_2) + W_1 + W_2]$$

$$q = 16.6 \text{ W/m}^2 [0.6 \text{ m} (1.6 \text{ m} + 1.2 \text{ m}) + (0.8 \text{ m} + 0.6 \text{ m})] = 35.9 \text{ W} \quad \leftarrow$$

COMMENTS: The corners and edges of the container create local departures from one-dimensional conduction, which increase the heat load. However, for $H, W_1, W_2 \gg L$, the effect is negligible.

Intro To Heat Transfer 6th Solution Manual

**Tirupathi Chandrupatla, Tirupathi R.
Chandrupatla, Ashok Belegundu**

Intro To Heat Transfer 6th Solution Manual:

Student Solutions Manual for Introduction to General, Organic, and Biochemistry Morris Hein, 2001-07-21 Experienced authors and educators Hein Pattison Best and Arena recognize that both science and mathematics can be daunting subjects. They skillfully anticipate areas of difficulty and pace the text accordingly. Particular emphasis is placed on the understanding of how chemical principles relate to the reader's lives and future careers. *Information Sources in Engineering* Roderick A. Macleod, Jim Corlett, 2012-04-17 The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology. It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology, biotechnology, aviation and defence, nanotechnology, industrial design, material science, security and health care in the workplace, as well as aspects of the fields of chemistry, electro technology and mechanical engineering. The sources of information presented also contain publications available in printed and electronic form such as books, journals, electronic magazines, technical reports, dissertations, scientific reports, articles from conferences, meetings and symposiums, patents and patent information, technical standards, products, electronic full text services, abstract and indexing services, bibliographies, reviews, internet sources, reference works and publications of professional associations. *Information Sources in Engineering* is aimed at librarians and information scientists in technical fields as well as non professional information specialists who have to provide information about technical issues. Furthermore, this title is of great value to students and people with technical professions. **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

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