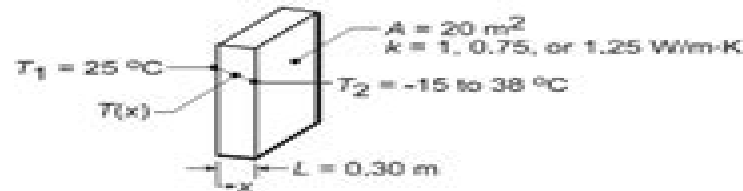


PROBLEM 1.4

KNOWN: Inner surface temperature and thermal conductivity of a concrete wall.

FIND: Heat loss by conduction through the wall as a function of outer surface temperatures ranging from -15 to 38°C .

SCHEMATIC:



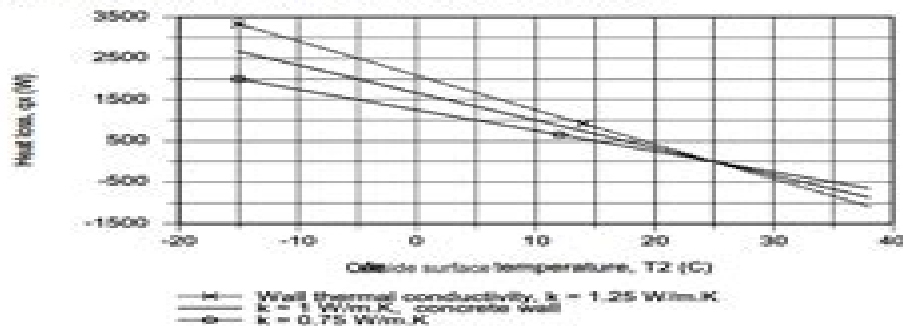
ASSUMPTIONS: (1) One-dimensional conduction in the x -direction, (2) Steady-state conditions, (3) Constant properties.

ANALYSIS: From Fourier's law, if q_x'' and k are each constant it is evident that the gradient, $dT/dx = -q_x''/k$, is a constant, and hence the temperature distribution is linear. The heat flux must be constant under one-dimensional, 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 $T_2 = -15^\circ\text{C}$ are

$$q_x'' = -k \frac{dT}{dx} = k \frac{T_1 - T_2}{L} = 1 \text{ W/m} \cdot \text{K} \frac{25^\circ\text{C} - (-15^\circ\text{C})}{0.30 \text{ m}} = 133.3 \text{ W/m}^2. \quad (1)$$

$$q_x = q_x'' \times A = 133.3 \text{ W/m}^2 \times 20 \text{ m}^2 = 2667 \text{ W}. \quad (2) \quad \leftarrow$$

Combining Eqs. (1) and (2), the heat rate q_x can be determined for the range of outer surface temperature, $-15 \leq T_2 \leq 38^\circ\text{C}$, with different wall thermal conductivities, k .



For the concrete wall, $k = 1 \text{ W/m} \cdot \text{K}$, the heat loss varies linearly from $+2667 \text{ W}$ to -867 W and is zero when the inside and outer surface temperatures are the same. The magnitude of the heat rate increases with increasing thermal conductivity.

COMMENTS: Without steady-state conditions and constant k , the temperature distribution in a plane wall would not be linear.

Fundamentals Of Heat Transfer Solutions

Ibrahim Dincer, Mehmet Akif Ezan



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Solutions Manual to Accompany Fundamentals of Heat and Mass Transfer, Third Edition, and Introduction to Heat Transfer, Second Edition Frank P. Incropera, David P. DeWitt, 1990 **Fundamentals of Heat Transfer** Moghtada Mobedi, Gamze Gediz Ilis, 2023-07-05 This book demonstrates the analytical solution of fundamental problems in heat transfer which covers conduction convection and radiation heat transfer The analytical solution of heat transfer problems is described in a simple way which is easy to understand This book also provides competence of solving fundamental heat transfer problems by analytical method which is particularly important to gain a strong background on heat transfer The book is an interdisciplinary heat transfer book which is useful for all academicians and students from different disciplines with different levels of mathematical knowledge The book can be used as a core or supplementary textbook in undergraduate and graduate bridge courses Furthermore it is suitable for professional and vocational coursework for technology and engineering professionals *Solutions Manual 'Fundamentals of Heat Transfer'* Lindon C. Thomas, 1980 *Essentials of Heat Transfer* Massoud Kaviany, 2011-08 This is a modern example driven introductory textbook on heat transfer with modern applications written by a renowned scholar *Fundamentals of Heat and Mass Transfers and Introduction to Heat Transfer* Incropera, 1996-08-28 **Heat Transfer Basics** Jamil Ghajel, 2023-12-11 HEAT TRANSFER BASICS Concise introduction to heat transfer with a focus on worked example problems to aid in reader comprehension and student learning Heat Transfer Basics covers the essential topics of heat transfer in a focused manner starting with an introduction to heat transfer that explains its relationship to thermodynamics and fluid mechanics and continuing on to key topics such as free convection boiling and condensation radiation heat exchangers and more for an accessible and reader friendly yet comprehensive treatment of the subject Each chapter features multiple worked out example problems including derivations of key governing equations and comparisons of worked solutions with computer modeled results which helps students become familiar with the types of problems they will encounter in the field Throughout the book figures and diagrams liberally illustrate the concepts discussed and practice problems allow students to test their understanding of the content The text is accompanied by an online instructor s manual Heat Transfer Basics includes information on One dimensional steady state conduction covering the plane wall the composite wall solid and hollow cylinders and sphere conduction with and without internal energy generation and conduction with constant and temperature dependent thermal conductivity Heat transfer from extended surfaces fins of uniform and variable cross sectional area fin performance and overall fin efficiency Transient conduction covering general lumped capacitance solution method one and multi dimensional transient conduction and the finite difference method for solving transient problems Free and forced convection covering hydrodynamic and thermal considerations the energy balance and thermal analysis and convection correlations More advanced than introductory textbooks yet not as overwhelming as textbooks targeted at specialists Heat Transfer Basics is ideal for students in

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