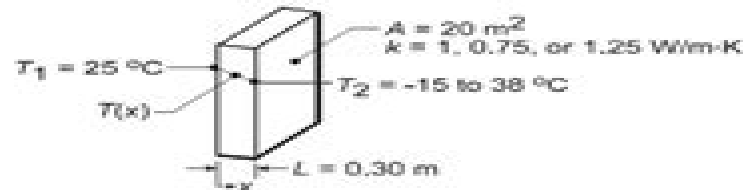


### PROBLEM 1.4

**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  $38^\circ\text{C}$ .

**SCHEMATIC:**



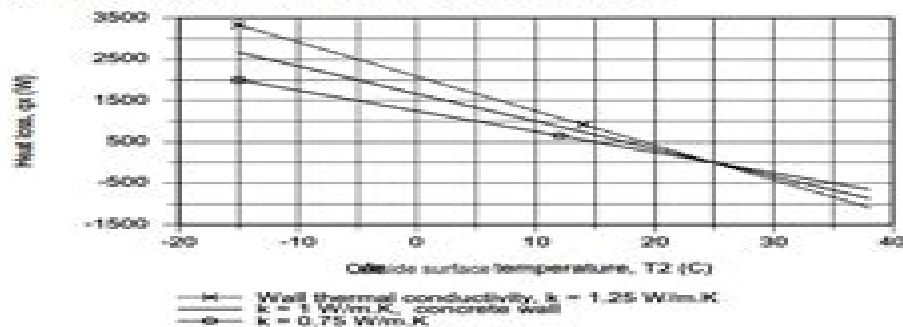
**ASSUMPTIONS:** (1) One-dimensional conduction in the  $x$ -direction, (2) Steady-state conditions, (3) Constant properties.

**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  $-867 \text{ W}$  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

**Miguel Araiz**

A decorative graphic consisting of a red circular shape with a white center, partially obscured by a white horizontal bar.

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convection radiation and using the earlier chapters must determine the appropriate solution technique For example they must decide whether the problem is steady state or transient They must determine the applicable convection coefficients and material properties They must decide which solution approach e g analytical or numerical is appropriate **Wärme- und Stoffübertragung** Hans D. Baehr, Karl Stephan, 2013-07-01 Dieses bereits in zweiter Auflage vorliegende Lehrbuch ist eine umfassende und gründliche Darstellung der Wärme und Stoffübertragung Ihre Theorie wird systematisch entwickelt und die Lösungsmethoden aller wichtigen Probleme werden ausführlich behandelt Daher eignet sich dieses Buch nicht nur für Studenten sondern nützt auch Wissenschaftlern und Ingenieuren in der Praxis als zuverlässiges Nachschlagewerk Alle Gebiete der Wärme und Stoffübertragung werden dargestellt Wärmeleitung und Diffusion konvektiver Wärme und Stoffaustausch Wärmetransport beim Kondensieren und Verdampfen die Wärmestrahlung sowie die Berechnung der Wärme und Stoffübertragung Zahlreiche durchgerechnete Beispiele sowie Übungsaufgaben und Lösungen erleichtern das Verständnis

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*Thermal Radiation Heat Transfer, 5th Edition* John R. Howell, M. Pinar Menguc, Robert Siegel, 2010-09-28 Providing a comprehensive overview of the radiative behavior and properties of materials the fifth edition of this classic textbook describes the physics of radiative heat transfer development of relevant analysis methods and associated mathematical and numerical techniques Retaining the salient features and fundamental coverage that have made it popular Thermal Radiation Heat Transfer Fifth Edition has been carefully streamlined to omit superfluous material yet enhanced to update information with extensive references Includes four new chapters on Inverse Methods Electromagnetic Theory Scattering and Absorption by Particles and Near Field Radiative Transfer Keeping pace with significant developments this book begins by addressing the radiative properties of blackbody and opaque materials and how they are predicted using electromagnetic theory and obtained through measurements It discusses radiative exchange in enclosures without any radiating medium between the surfaces and where heat conduction is included within the boundaries The book also covers the radiative properties of gases and addresses energy exchange when gases and other materials interact with radiative energy as occurs in furnaces To make this challenging subject matter easily understandable for students the authors have revised and reorganized this textbook to produce a streamlined practical learning tool that Applies the common nomenclature adopted by the major heat transfer journals Consolidates past material reincorporating much of the previous text into appendices Provides an updated expanded and alphabetized collection of references assembling them in one appendix Offers a helpful list of symbols With worked out examples chapter end homework problems and other useful learning features such as concluding remarks and historical

notes this new edition continues its tradition of serving both as a comprehensive textbook for those studying and applying radiative transfer and as a repository of vital literary references for the serious researcher

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**Heat Transfer** Miguel Araiz, 2021-09-22 Thermal energy is present in all aspects of our lives including when cooking driving or turning on the heat or air conditioning Sometimes this thermal management is not evident but it is essential for our comfort and lifestyle

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