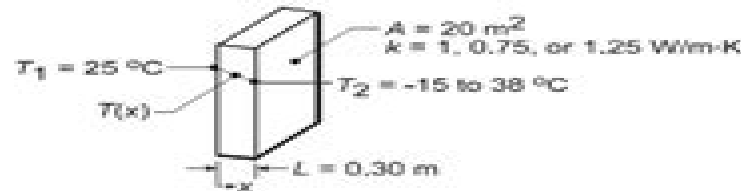


### PROBLEM 1.4

**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:**



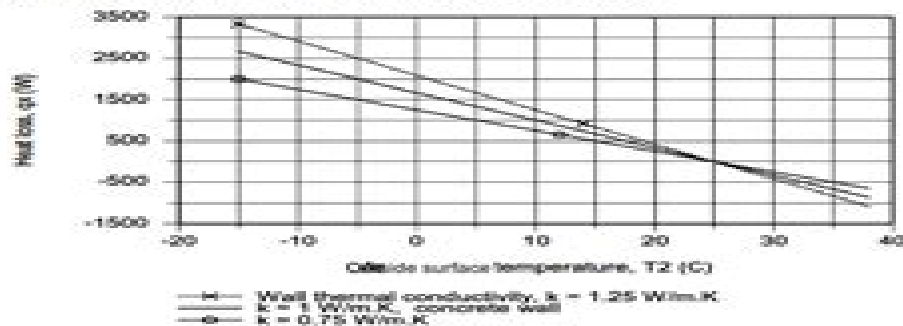
**ASSUMPTIONS:** (1) One-dimensional conduction in the  $x$ -direction, (2) Steady-state conditions, (3) Constant properties.

**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 red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the author's name.

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**Fundamentals of Heat and Mass Transfer and Introduction to Heat Transfer** Incropera, 1996-08-28

**Solutions Manual 'Fundamentals of Heat Transfer'** Lindon C. Thomas, 1980      *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      **Wärme- und**

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Essentials of Heat and Fluid Flow in Porous Media Arunn Narasimhan,2022-06-03 This textbook provides a general overview of porous media flow and introduces various theoretical tools to characterize and predict the flow It has been written for graduate and advanced graduate students in various engineering disciplines It includes the topics such as fluid flow conduction convection and radiation in porous media as well as porous medium aspects of biological systems The concepts are supported by numerous solved examples to aid self learning in students The textbook also contains illustrated diagrams for better understanding of the concepts This textbook will be useful for the core course of Flow through Porous media for graduate and advanced graduate students in various engineering disciplines This textbook will also serve as a refresher course for researchers who are engaged in research related to porous media flow

*Introduction to Heat Transfer* Theodore L. Bergman,Adrienne S. Lavine, Frank P. Incropera,David P. DeWitt,2011-06-13 Completely updated the sixth edition provides engineers with an in depth look at the key concepts in the field It incorporates new discussions on emerging areas of heat transfer discussing technologies that are related to nanotechnology biomedical engineering and alternative energy The example problems are also updated to better show how to apply the material And as engineers follow the rigorous and systematic problem solving methodology they ll gain an appreciation for the richness and beauty of the discipline

Heat Transfer Basics Jamil Ghojel,2023-11-01 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

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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 In addition heat transfer is vital in many industrial processes Thermal energy analysis is a complex task that usually requires different approaches With five sections this book provides information on heat transfer problems and using experimental techniques and computational models to analyse them

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*Principles of Heat Transfer* Massoud Kaviany, 2002 CD ROM contains Equations and relations models for thermal circuit modeling

*Applied Mechanics Reviews* ,1973 Creeping Flow Solution of the Leidenfrost Phenomenon Kenneth J.

Baumeister, Thomas D. Hamill, 1965      The Finite Element Method for Fluid Dynamics O. C. Zienkiewicz, R. L. Taylor, P. Nithiarasu, 2005-12-08 Dealing with general problems in fluid mechanics convection diffusion compressible and incompressible laminar and turbulent flow shallow water flows and waves this is the leading text and reference for engineers working with fluid dynamics in fields including aerospace engineering vehicle design thermal engineering and many other engineering applications The new edition is a complete fluids text and reference in its own right Along with its companion volumes it forms part of the indispensable Finite Element Method series New material in this edition includes sub grid scale modelling artificial compressibility full new chapters on turbulent flows free surface flows and porous medium flows expanded shallow water flows plus long medium and short waves and advances in parallel computing A complete stand alone reference on fluid mechanics applications of the FEM for mechanical aeronautical automotive marine chemical and civil engineers Extensive new coverage of turbulent flow and free surface treatments      An Introduction To The Method Of Fundamental Solutions Alexander H-d Cheng, Ching-shyang Chen, Andreas Karageorghis, 2025-03-11 Over the past two decades the method of fundamental solutions MFS has attracted great attention and has been used extensively for the solution of scientific and engineering problems The MFS is a boundary meshless collocation method which has evolved from the boundary element method In it the approximate solution is expressed as a linear combination of fundamental solutions of the operator in the governing partial differential equation One of the main attractions of the MFS is the simplicity with which it can be applied to the solution of boundary value problems in complex geometries in two and three dimensions The method is also known by many different names in the literature such as the charge simulation method the de singularization method the virtual boundary element method etc Despite its effectiveness the original version of the MFS is confined to solving boundary value problems governed by homogeneous partial differential equations To address this limitation we introduce various types of particular solutions to extend the method to solving general inhomogeneous boundary value problems employing the method of particular solutions This book consists of two parts Part I aims to provide theoretical support for beginners In the spirit of reproducible research and to facilitate the understanding of the method and its implementation several MATLAB codes have been included in Part II This book is highly recommended for use by post graduate researchers and graduate students in scientific computing and engineering      **Fundamentals of Heat and Mass Transfer** C. P. Kothandaraman, 2006 About the Book Salient features A number of Complex problems along with the solutions are provided Objective type questions for self evaluation and better understanding of the subject Problems related to the practical aspects of the subject have been worked out Checking the authenticity of dimensional homogeneity in case of all derived equations Validation of numerical solutions by cross checking Plenty of graded exercise problems from simple to complex situations are included Variety of questions have been included for the clear grasping of the basic principles Redrawing of all the figures for more clarity and understanding Radiation shape factor charts and Heisler charts have also been included Essential tables

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