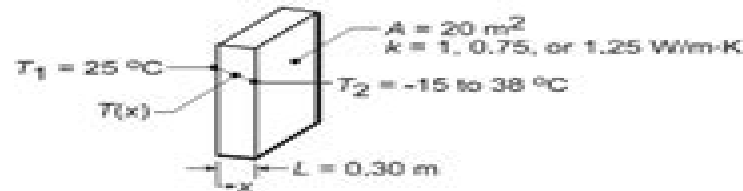


PROBLEM 1.4

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:



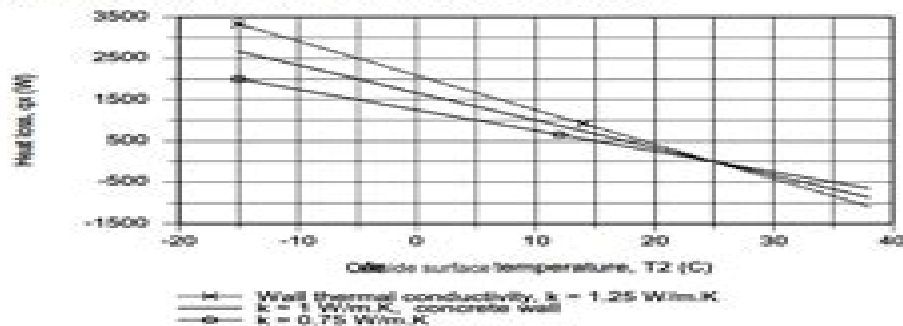
ASSUMPTIONS: (1) One-dimensional conduction in the x -direction, (2) Steady-state conditions, (3) Constant properties.

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 .

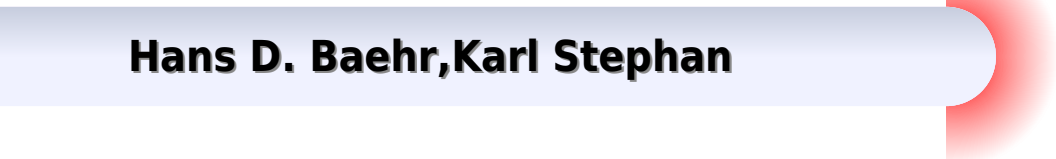


For the concrete wall, $k = 1 \text{ W/m} \cdot \text{K}$, the heat loss varies linearly from $+2667 \text{ W}$ to -867 W and is zero when the inside and outer surface temperatures are the same. The magnitude of the heat rate increases with increasing thermal conductivity.

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

Fundamentals Of Heat Transfer Solutions

Hans D. Baehr, Karl Stephan



Fundamentals Of Heat Transfer Solutions :

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

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

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explains the fundamentals of heat transfer including heat conduction convection radiation and heat exchangers The fundamentals are then applied to a variety of engineering examples including topics of special and current interest like solar collectors cooling of electronic equipment and energy conservation in buildings The text covers both analytical and numerical solutions to heat transfer problems and makes considerable use of Excel and MATLAB in the solutions Each chapter has several example problems and a large but not overwhelming number of end of chapter problems A medium sized text providing a thorough treatment of heat transfer fundamentals Includes both analytical and numerical solutions of heat transfer problems Extensive use of Excel and Matlab Includes a chapter on mass transfer Includes a unique chapter of multimode problems to enhance the students problem solving skills Minimal information is given in the problem statements Students must determine the relevant modes of heat transfer conduction 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

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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

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A Unique Solution For Energy Systems Ibrahim Dincer, Mehmet Akif Ekan, 2018-10-09 This book covers emerging energy storage technologies and material characterization methods along with various systems and applications in building power generation systems and thermal management The authors present options available for reducing the net energy consumption for heating cooling improving the thermal properties of the phase change materials and optimization methods for heat storage embedded multi generation systems An in depth discussion on the natural convection driven phase change is included The book also discusses main energy storage options for thermal management practices in photovoltaics and phase change material applications that aim passive thermal control This book will appeal to researchers and professionals in the fields of mechanical engineering chemical engineering electrical engineering renewable energy and thermodynamics It can also be used as an ancillary text in upper level undergraduate courses and graduate courses in these fields *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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