

### PROBLEM 1.10

**KNOWN:** Thickness, diameter and inner surface temperature of bottom of pan used to boil water. Rate of heat transfer to the pan.

**FIND:** Outer surface temperature of pan for an aluminum and a copper bottom.

**SCHEMATIC:**



**ASSUMPTIONS:** (1) One-dimensional, steady-state conduction through bottom of pan.

**ANALYSIS:** From Fourier's law, the rate of heat transfer by conduction through the bottom of the pan is

$$q = kA \frac{T_1 - T_2}{L}$$

Hence,

$$T_1 = T_2 + \frac{qL}{kA}$$

where  $A = \pi D^2 / 4 = \pi (0.2\text{ m})^2 / 4 = 0.0314\text{ m}^2$ .

$$\text{Aluminum: } T_1 = 110^\circ\text{C} + \frac{600\text{ W} (0.005\text{ m})}{240\text{ W/m}\cdot\text{K} (0.0314\text{ m}^2)} = 110.40^\circ\text{C}$$

$$\text{Copper: } T_1 = 110^\circ\text{C} + \frac{600\text{ W} (0.005\text{ m})}{390\text{ W/m}\cdot\text{K} (0.0314\text{ m}^2)} = 110.25^\circ\text{C}$$

**COMMENTS:** Although the temperature drop across the bottom is slightly larger for aluminum (due to its smaller thermal conductivity), it is sufficiently small to be negligible for both materials. To a good approximation, the bottom may be considered *isothermal* at  $T = 110^\circ\text{C}$ , which is a desirable feature of pots and pans.

# Solution Of Conduction Heat Transfer Arpaci

**Thomas Griffiths**



## **Solution Of Conduction Heat Transfer Arpaci:**

**Conduction Heat Transfer** Vedat S. Arpaci,1966      **CRC Handbook of Thermal Engineering** Raj P. Chhabra,2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe      **Applied Mechanics Reviews** ,1972      *Conduction Heat Transfer, By Vedat S. Arpaci* Vedat S. Arpaci,1966      NASA Technical Memorandum ,1975      **The CRC Handbook of Mechanical Engineering** D. Yogi Goswami,2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering      Introduction to Heat Transfer Vedat S. Arpaci,Shu-Hsin Kao,Ahmet Selamet,1999 The philosophy of the text is based on the development of an inductive approach to the formulation and solution of applied problems Explores the principle that heat transfer rests on but goes beyond thermodynamics Ideal as an introduction to engineering heat transfer

**Unified Analysis and Solutions of Heat and Mass Diffusion** Mikhail Dimitrov Mikhaïlov,1984 This excellent monograph by two experts presents a generalized and systematic approach to the analytic solution of seven different classes of linear heat and mass diffusion problems 1984 edition      Analytical Methods in Conduction Heat Transfer Glen E. Myers,1971      **Calculation Procedure for Transient Heat Transfer to a Cooled Plate in a Heated Stream Whose Temperature Varies Arbitrarily with Time** James Sucec,1975      **Fundamentals of Heat Transfer** Lindon C. Thomas,1980      *Modeling with Differential Equations in Chemical Engineering* Stanley M. Walas,1991 Modelling with Differential Equations in Chemical Engineering covers the modelling of rate processes of engineering in terms of differential equations While it includes the purely mathematical aspects of the solution of differential equations the main emphasis is on the derivation and solution of major equations of engineering and applied science Methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples and problems for solution by the reader Emphasis is placed on numerical and computer methods of solution A key chapter in the book is devoted to the

principles of mathematical modelling These principles are applied to the equations in important engineering areas The major disciplines covered are thermodynamics diffusion and mass transfer heat transfer fluid dynamics chemical reactions and automatic control These topics are of particular value to chemical engineers but also are of interest to mechanical civil and environmental engineers as well as applied scientists The material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

**Heat Conduction** M. Necati Özışık,1993-03-22 This Second Edition for the standard graduate level course in conduction heat transfer has been updated and oriented more to engineering applications partnered with real world examples New features include numerous grid generation for finding solutions by the finite element method and recently developed inverse heat conduction Every chapter and reference has been updated and new exercise problems replace the old

Handbook of Numerical Heat Transfer W. J. Minkowycz,1988-03-28 Presents a comprehensive accessible and readily usable reference to the necessary formulations numerical schemes and innovative solution techniques for solving problems of heat and mass transfer and related fluid flows Grouped by major sets of methods and functions the text describes new or improved as well as standard procedures This collection of contributions from leading figures in the field covers parabolic systems hyperbolic systems integral and integro differential systems Monte Carlo and perturbation methods inverse problems and more

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Journal of Thermophysics and Heat Transfer ,2006 This journal is devoted to the advancement of the science and technology of thermophysics and heat transfer through the dissemination of original research papers disclosing new technical knowledge and exploratory developments and applications based on new knowledge It publishes papers that deal with the properties and mechanisms involved in thermal energy transfer and storage in gases liquids and solids or combinations thereof These studies include conductive convective and radiative modes alone or in combination and the effects of the environment

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