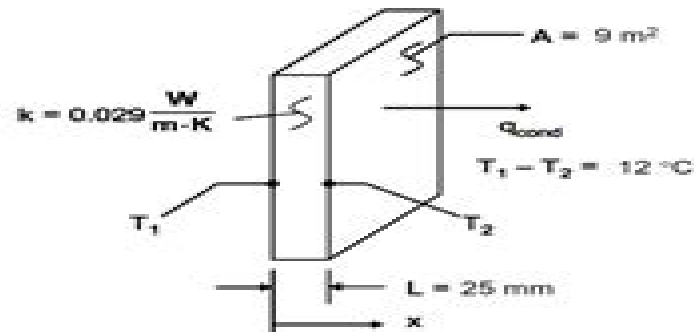


## PROBLEM 1.2

**KNOWN:** Thermal conductivity, thickness and temperature difference across a sheet of rigid extruded insulation.

**FIND:** (a) The heat flux through a  $3 \text{ m} \times 3 \text{ m}$  sheet of the insulation, (b) the heat rate through the sheet, and (c) the thermal conduction resistance of the sheet.

**SCHEMATIC:**



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

**ANALYSIS:** (a) From Equation 1.2 the heat flux is

$$q_x'' = -k \frac{dT}{dx} = k \frac{T_1 - T_2}{L} = 0.029 \frac{\text{W}}{\text{m} \cdot \text{K}} \times \frac{12 \text{ K}}{0.025 \text{ m}} = 13.9 \frac{\text{W}}{\text{m}^2} \quad <$$

(b) The heat rate is

$$q_x = q_x'' \cdot A = 13.9 \frac{\text{W}}{\text{m}^2} \times 9 \text{ m}^2 = 125 \text{ W} \quad <$$

(c) From Eq. 1.11, the thermal resistance is

$$R_{\text{cond}} = \Delta T / q_x = 12 \text{ K} / 125 \text{ W} = 0.096 \text{ K/W} \quad <$$

**COMMENTS:** (1) Be sure to keep in mind the important distinction between the heat flux ( $\text{W/m}^2$ ) and the heat rate (W). (2) The direction of heat flow is from hot to cold. (3) Note that a temperature *difference* may be expressed in kelvins or degrees Celsius. (4) The conduction thermal resistance for a plane wall could equivalently be calculated from  $R_{\text{cond}} = L/kA$ .

# Fundamentals Of Heat Mass Transfer Solution

**Frank P. Incropera, David P. DeWitt**



## **Fundamentals Of Heat Mass Transfer Solution :**

*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      Wärme- und Stoffübertragung Hans Dieter Baehr, Karl Stephan, 2019-04-10 Ziel dieses Buches ist die umfassende Darstellung der Wärme und Stoffübertragung als eine der wichtigsten Grundlagen der Energie und der Verfahrenstechnik Alle ihre Gebiete werden ausführlich behandelt Wärmeleitung und Diffusion konvektiver Wärme und Stoffaustausch Wärmetransport beim Kondensieren und Verdampfen Wärmestrahlung sowie die Berechnung von Apparaten und Anlagen der Wärme und Stoffübertragung Die bearbeitete und aktualisierte 10. Auflage bietet den neuesten Wissensstand Insbesondere wurden die Kapitel Erstarren und Schmelzen geometrisch einfacher Körper sowie Lagerung von freier und erzwungener Strahlung völlig neu bearbeitet Darüber hinaus wurden in mehreren Kapiteln Korrekturen und Ergänzungen vorgenommen Die auf Messungen basierenden Korrelationen und auch die Stoffwerttabellen sind dem neuesten Kenntnisstand angepasst Auch das Literaturverzeichnis wurde durch Aufnahme neuer Publikationen aktualisiert Dieses Buch wendet sich vor allem an Studierende des Maschinenbaus und der Verfahrenstechnik hilft aber auch den in der Praxis tätigen Wissenschaftlern und Ingenieuren die Gesetze der Wärme und Stoffübertragung zur Lösung der vielfältigen praktischen Probleme anzuwenden      Transport Phenomena Fundamentals Joel L. Plawsky, 2020-02-27 The fourth edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject based on a unified treatment of heat mass and momentum transport using a balance equation approach The new edition includes more worked examples within each chapter and adds confidence building problems at the end of each chapter Some numerical solutions are included in an appendix for students to check their comprehension of key concepts Additional resources online include exercises that can be practiced using a wide range of software programs available for simulating engineering problems such as COMSOL Maple Fluent Aspen Mathematica Python and MATLAB lecture notes and past exams This edition incorporates a wider range of problems to expand the utility of the text beyond chemical engineering The text is divided into two parts which can be used for teaching a two term course Part I covers the balance equation in the context of diffusive transport momentum energy mass and charge Each chapter adds a term to the balance equation highlighting that term's effects on the physical behavior of the system and the underlying mathematical description Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume the derivation of the governing differential equations and the solution to those equations with appropriate boundary conditions Part II builds on the diffusive transport balance equation by introducing convective transport terms focusing on partial rather than ordinary differential equations The text describes paring down the full microscopic equations governing the phenomena to simplify the models and develop engineering solutions and it introduces macroscopic versions of the balance equations for use where the microscopic approach is either too difficult to solve or would yield much more information than is actually required The text

discusses the momentum Bernoulli energy and species continuity equations including a brief description of how these equations are applied to heat exchangers continuous contactors and chemical reactors The book introduces the three fundamental transport coefficients the friction factor the heat transfer coefficient and the mass transfer coefficient in the context of boundary layer theory Laminar flow situations are treated first followed by a discussion of turbulence The final chapter covers the basics of radiative heat transfer including concepts such as blackbodies graybodies radiation shields and enclosures

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