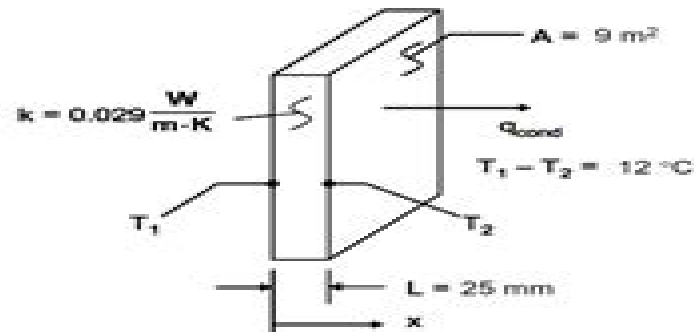


## PROBLEM 1.2

**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

**O. C. Zienkiewicz, R. L. Taylor, P.  
Nithiarasu**



## **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.

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Suvanjan Bhattacharyya, Ali Cemal Benim, 2023-05-20 This book presents the select proceedings of the 48th National Conference on Fluid Mechanics and Fluid Power FMFP 2021 held at BITS Pilani in December 2021 It covers the topics such as fluid mechanics measurement techniques in fluid flows computational fluid dynamics instability transition and turbulence fluid structure interaction multiphase flows micro and nanoscale transport bio fluid mechanics aerodynamics turbomachinery propulsion and power The book will be useful for researchers and professionals interested in the broad field of mechanics

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