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KNOWN: Thermal conductivity, thickness and temperature difference across a sheet of rigid extruded insulation. FIND: (a) The heat flux through a 2 m × 2 m sheet of the insulation, and (b) The heat rate through the sheet. SCHEMATIC: $q_{\text{cond}} A = 4 \text{ m}^2 \text{ T}$

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Most heat transfer is by convection. 1-30 $Q = \dot{m} c_p (T_2 - T_1)$ $Q_{\text{rad}} = \epsilon \sigma A (T_s^4 - T_{\text{sur}}^4)$ $Q_{\text{conv}} = h A (T_s - T_{\infty})$ From Table 1.1 $h = 4 - 5 \text{ W/m}^2 \cdot \text{K}$ (conv = f; $h = 10 \text{ W/m}^2 \cdot \text{K}$ so - 20) (2 sides) $\epsilon_{\text{rad}} = 0.4$, $(T_{\text{ta}} - T_{\text{za}}) = (5.669 \times 10^{-8} \text{ W/m}^2 \cdot \text{K}^4) (323 \text{ K} - 273 \text{ K})$ (2 sides) $= 28.7 \text{ W}$ $Q_{\text{total}} = 24.3 \text{ W} + 28.7 \text{ W} = 53 \text{ W}$ Convection and radiation are about the same magnitude. $Q_{\text{rad}} = \epsilon \sigma A (T_s^4 - T_{\text{sur}}^4)$ $Q_{\text{conv}} = h A (T_s - T_{\infty})$ $Q_{\text{rad}} = 0$ (insulated) $Q_{\text{conv}} = h A (T_s - T_{\infty})$

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Completely updated, the seventh 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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Over the past few decades there has been a prolific increase in research and development in area of heat transfer, heat exchangers and their associated technologies. This book is a collection of current research in the above mentioned areas and discusses experimental, theoretical and calculation approaches and industrial utilizations with modern ideas and methods to study heat transfer for single and multiphase systems. The topics considered include various basic concepts of heat transfer, the fundamental modes of heat transfer (namely conduction, convection and radiation), thermophysical properties, condensation, boiling, freezing, innovative experiments, measurement analysis, theoretical models and simulations, with many real-world problems and important modern applications. The book is divided in four sections : "Heat Transfer in Micro Systems" "Boiling, Freezing and Condensation

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Heat Transfer", "Heat Transfer and its Assessment", "Heat Transfer Calculations", and each section discusses a wide variety of techniques, methods and applications in accordance with the subjects. The combination of theoretical and experimental investigations with many important practical applications of current interest will make this book of interest to researchers, scientists, engineers and graduate students, who make use of experimental and theoretical investigations, assessment and enhancement techniques in this multidisciplinary field as well as to researchers in mathematical modelling, computer simulations and information sciences, who make use of experimental and theoretical investigations as a means of critical assessment of models and results derived from advanced numerical simulations and improvement of the developed models and numerical methods.

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