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Lecture -7 Fundamentals of Heat Transfer

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(a) Calculate the heat flux through the insulated sheet. Here, is the temperature difference, is the length of the insulated sheet along the direction of heat flow, and k is the thermal conductivity. Substitute for, 0.02 m for L, and for k.

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This is consistent with the fact that the surface heat flux in the positive y -direction is given by the following equation: From the sketch, the temperature gradient is positive. Therefore, the heat flux is negative. The heat transfer is in the negative y -direction, the plate is being heated by the fluid.

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ASSUMPTIONS: (1) Steady-state conditions, (2) Negligible heat transfer from the wire by natural convection or radiation. ANALYSIS: If all of the electric energy is transferred by convection to the air, the following equality must be satisfied. PEelec== ?IhA()TTs ? where A==??DL ()0.0005m 0.02m× =×3.14 10? 52 m. Hence, ##### ##### ()

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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 T2 = -15°C

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This book introduces the fundamental concepts of inverse heat transfer solutions and their applications for solving problems in convective, conductive, radiative, and multi-physics problems. Inverse Heat Transfer: Fundamentals and Applications, Second Edition includes techniques within the Bayesian framework of statistics for the solution of inverse problems. By modernizing the classic work of the late Professor M. Necati Özisik and adding new examples and problems, this new edition provides a powerful tool for instructors, researchers, and graduate students studying thermal-fluid systems and heat transfer. FEATURES Introduces the fundamental concepts of inverse heat transfer Presents in systematic fashion the basic steps of powerful inverse solution techniques Develops inverse techniques of parameter estimation, function estimation, and state estimation Applies these inverse techniques to the solution of practical inverse heat transfer problems Shows inverse techniques for conduction, convection, radiation, and multi-physics phenomena M. Necati Özisik (1923–2008) retired in 1998 as Professor Emeritus of North Carolina State University's Mechanical and Aerospace Engineering Department. Helcio R. B. Orlande is a Professor of Mechanical Engineering at the Federal University of Rio de Janeiro (UFRJ), where he was the Department Head from 2006 to 2007.

This book provides a complete introduction to the physical origins of heat and mass transfer. Contains hundred of problems and examples dealing with real engineering processes and systems. New open-ended problems add to the increased emphasis on design. Plus, Incropera & DeWitts systematic approach to the first law develops readers confidence in using this essential tool for thermal analysis.