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Chapter 1 Basics of Heat Transfer 1-3

1-13E A logic chip in a computer dissipates 3 W of power. The amount heat dissipated in 8 h and the heat flux on the surface of the chip are to be determined.

Assumptions Heat transfer from the surface is uniform. Analysis (a) The

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amount of heat the chip dissipates during
an 8-hour period is $Q = \dot{Q}t = (0.038 \text{ W}) (8 \text{ h})$
 $0.304 \text{ Wh} = 0.000304 \text{ kWh}$

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Analysis The problem is solved using EES, and the solution is given below.

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The results are: $(z) = a + bz + cz^2 =$
 $1.20252 \pm 0.101674z + 0.0022375 z^2$ for
the unit of kg/m^3 , (or, $(z) = (1.20252 \pm$
 $0.101674z + 0.0022375z^2) \cdot 10^3$ for the
unit of kg/km^3) where z is the vertical
distance from the earth surface at sea
level. At $z = 7$ km, the equation would

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give = 0.60 kg/m^3 .

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1-2. Thermodynamics and Heat Transfer.
1-1C Thermodynamics deals with the
amount of heat transfer as a system
undergoes a process from one equilibrium

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state to another.

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~~Solution Manual~~

Get solution 15-56 Heat is to be conducted along a PCB with copper cladding on one side. The PCB is 12 cm long and 12 cm wide, and the thicknesses of the copper and epoxy layers are 0.06 mm and 0.5 mm, respectively.

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This text provides balanced coverage of the basic concepts of thermodynamics and heat transfer. Together with the illustrations, student-friendly writing style,

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and accessible math, this is an ideal text for an introductory thermal science course for non-mechanical engineering majors.

Many heat transfer problems are time dependent. Such unsteady or transient

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problems typically arise when the boundary conditions of a system are changed. For example, if the surface temperature of a system is altered, the temperature at each point in the system will also begin to change. The changes will continue to occur until a steady state temperature distribution is reached.

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Consider a hot metal billet that is removed from a furnace and exposed to a cool air stream. Energy is transferred by convection and radiation from its surface to the surroundings. Energy transfer by conduction also occurs from the interior of the metal to the surface, and the temperature at each point in the billet

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decreases until a steady state condition is reached. The final properties of the metal will depend significantly on the time \square temperature history that results from heat transfer. Controlling the heat transfer is one key to fabricating new materials with enhanced properties. The author's objective in this textbook is to develop

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procedures for determining the time dependence of the temperature distribution within a solid during a transient process, as well as for determining heat transfer between the solid and its surroundings. The nature of the procedure depends on assumptions that may be made for the process. If, for example, temperature

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understanding of the material by emphasizing the physics and the underlying physical phenomena involved.

Key: Text covers the standard topics of heat transfer with an emphasis on physics and real-world every day applications, while de-emphasizing the intimidating heavy mathematical aspects. This

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respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field. Fluid Mechanics chapters include basics on non-Newtonian systems which, for instance find importance in polymer and food processing, flow through piping, flow

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measurement, pumps, mixing technology and fluidization and two phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different equipment commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction,

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cooling of electronic devices, NO_x control find place in the book. Mass transfer chapters cover basics such as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design,

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extraction find place in the book.

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