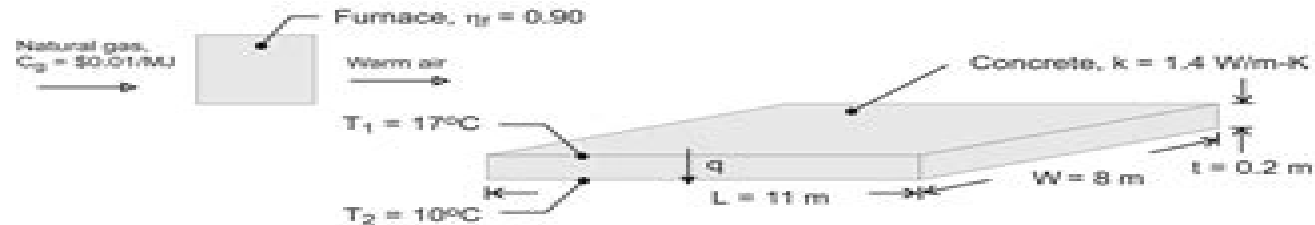


### PROBLEM 1.3

**KNOWN:** Dimensions, thermal conductivity and surface temperatures of a concrete slab. Efficiency of gas furnace and cost of natural gas.

**FIND:** Daily cost of heat loss.

**SCHEMATIC:**



**ASSUMPTIONS:** (1) Steady state, (2) One-dimensional conduction, (3) Constant properties.

**ANALYSIS:** The rate of heat loss by conduction through the slab is

$$q = k (LW) \frac{T_1 - T_2}{t} = 1.4 \text{ W/m} \cdot \text{K} (11 \text{ m} \times 8 \text{ m}) \frac{7^\circ\text{C}}{0.20 \text{ m}} = 4312 \text{ W} \quad <$$

The daily cost of natural gas that must be combusted to compensate for the heat loss is

$$C_d = \frac{q C_g}{\eta_f} (\Delta t) = \frac{4312 \text{ W} \times \$0.01 / \text{MJ}}{0.9 \times 10^6 \text{ J / MJ}} (24 \text{ h} / \text{d} \times 3600 \text{ s} / \text{h}) = \$4.14 / \text{d} \quad <$$

**COMMENTS:** The loss could be reduced by installing a floor covering with a layer of insulation between it and the concrete.

# Manual Solution Incropera 5th

**Arthur James Wells**



## **Manual Solution Incropera 5th:**

*Books in Print Supplement*, 2002      *Books in Print*, 1991      *Handbook of Pipeline Engineering* ABCM – Brazilian Society of Mechanical Sciences and Engineering, José Luiz de França Freire, Marcelo Rosa Rennó Gomes, Marcelino Guedes Gomes, 2024-07-25 This Handbook covers a large number of Pipeline Engineering topics ranging from the initial stages of designing constructing operating and managing the integrity of a pipeline to several of their fluid transportation applications such as oil gas derivatives slurry hydrogen and CO2 Traditional onshore and offshore pipelines are covered as well as chapters on present and future interaction with modern society This Handbook serves as a first reference resource for new readers entering the field but also as a complement to those who are aware of the general principles encompassing areas of pipeline engineering This Handbook has been developed in close cooperation with ABCM the Brazilian Society of Mechanical Sciences and Engineering      **Subject Guide to Books in Print**, 1993      **The Publishers' Trade List Annual**, 1985

**Forthcoming Books** Rose Arny, 2001-08      *Whitaker's Cumulative Book List*, 1985      *Scientific and Technical Books and Serials in Print*, 1984      *Complete Solutions Manual for Multivariable Calculus, Fifth Edition* Dan Clegg, James Stewart, Barbara Frank, 2003 This complete solutions manual contains detailed solutions to selected exercises in chapters 11 18 of Multivariable calculus fifth edition and chapters 10 17 of Calculus early transdendentals fifth edition      **The British National Bibliography** Arthur James Wells, 1994      *Journal of Heat Transfer*, 2005      **Chemical Engineering Design** Ray Sinnott, 2005-07-01 Chemical Engineering Design is one of the best known and widely adopted texts available for students of chemical engineering It deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout the fourth edition covers the latest aspects of process design operations safety loss prevention and equipment selection among others Comprehensive and detailed the book is supported by problems and selected solutions In addition the book is widely used by professionals as a day to day reference Best selling chemical engineering text Revised to keep pace with the latest chemical industry changes designed to see students through from undergraduate study to professional practice End of chapter exercises and solutions      *Proceedings of the ... IEEE International Symposium on Electronics and the Environment*, 2005      *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography, 1978      **Bifurcation Phenomena and Chaos in Thermal Convection** American Society of Mechanical Engineers. Winter Annual Meeting, 1992      *Student Study Guide to accompany Introduction to Heat, 4th Edition and Fundamentals of Heat, 5th Edition* Frank P. Incropera, David P. DeWitt, 2004-12-17 Work more effectively and gauge your progress as you go along This Student Study Guide and Solutions Manual has been developed by the publisher as a supplement to accompany Incropera s Fundamentals of Heat Mass Transfer 5th Edition and Introduction to Heat Mass Transfer 4th Edition It contains a summary of key concepts from each chapter fully worked solutions to representative problems from the text and in many cases includes exploration of a solution over a range of values

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**Verzeichnis lieferbarer Bücher**, 2002      **InTech**, 1984      **Winter Annual Meeting**, American Society of Mechanical Engineers,      **Student Solutions Manual for Zill's First Course in Differential Equations: the Classic Fifth Edition**, Steve Wright, 2000-12

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