

## Heat and Other Forms of Energy

**1.48C** The rate of heat transfer per unit surface area is called heat flux,  $q$ . It is related to the rate of heat transfer by  $Q = \int_A q \, dA$ .

**1.49C** Energy can be transferred by heat, work, and mass. An energy transfer is heat transfer when the driving force is temperature difference.

**1.50C** Thermal energy is the sensible and latent forms of internal energy, and it is referred to as heat in daily life.

**1.51C** For the constant pressure case, this is because the heat transfer to an ideal gas is  $m c_p \Delta T$  at constant pressure and  $m c_v \Delta T$  at constant volume, and  $c_p$  is always greater than  $c_v$ .

**1.52** A cylindrical resistor in a circuit board dissipates 0.6 W of power. The amount of heat dissipated in 24 h, the heat flux, and the fraction of heat dissipated from the top and bottom surfaces are to be determined.

**Assumptions** Heat is transferred uniformly from all surfaces.

**Analysis** (a) The amount of heat the resistor dissipates during a 24-hour period is

$$Q = \dot{Q} \Delta t = (0.6 \text{ W})(24 \text{ h}) = 14.4 \text{ Wh} = 51.8 \text{ kJ} \quad \text{since } 1 \text{ Wh} = 3600 \text{ Wh} = 3.6 \text{ kJ}$$

(b) The heat flux on the surface of the resistor is

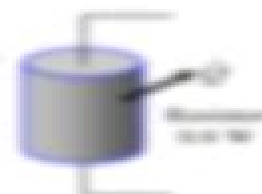
$$q_s = \frac{\dot{Q}}{A} = \frac{0.6 \text{ W}}{A} = \frac{0.6 \text{ W}}{\frac{\pi D^2 L}{4}} = \frac{0.6 \text{ W}}{\pi (4 \text{ mm})^2 (2 \text{ mm})} = 0.029 \text{ W/mm}^2 = 2.9 \text{ W/cm}^2$$

$$q_{\text{top}} = \frac{\dot{Q}_{\text{top}}}{A_{\text{top}}} = \frac{0.029 \text{ W}}{\frac{\pi D^2}{4}} = 0.230 \text{ W/cm}^2$$

(c) Assuming the heat transfer coefficient to be uniform, heat transfer is proportional to the surface area. Then the fraction of heat dissipated from the top and bottom surfaces of the resistor becomes

$$\frac{\dot{Q}_{\text{top, bot}}}{\dot{Q}_{\text{res}}} = \frac{A_{\text{top, bot}}}{A_{\text{res}}} = \frac{\frac{\pi D^2}{4}}{\frac{\pi D^2 L}{4}} = 0.009 \quad \text{or } 0.9\%$$

**Discussion** Heat transfer from the top and bottom surfaces is small relative to that transferred from the side surface.



# Heat Mass Transfer A Practical Approach 3rd Edition Solution

**Raffaela Di Napoli**



## **Heat Mass Transfer A Practical Approach 3rd Edition Solution:**

*Applications of Heat, Mass and Fluid Boundary Layers* R. O. Fagbenle, O. M. Amoo, S. Aliu, A. Falana, 2020-01-27

Applications of Heat Mass and Fluid Boundary Layers brings together the latest research on boundary layers where there has been remarkable advancements in recent years This book highlights relevant concepts and solutions to energy issues and environmental sustainability by combining fundamental theory on boundary layers with real world industrial applications from among others the thermal nuclear and chemical industries The book s editors and their team of expert contributors discuss many core themes including advanced heat transfer fluids and boundary layer analysis physics of fluid motion and viscous flow thermodynamics and transport phenomena alongside key methods of analysis such as the Merk Chao Fagbenle method This book s multidisciplinary coverage will give engineers scientists researchers and graduate students in the areas of heat mass fluid flow and transfer a thorough understanding of the technicalities methods and applications of boundary layers with a unified approach to energy climate change and a sustainable future

**Heat and Mass Transfer** Hans Dieter Baehr, Karl Stephan, 2011-07-22 This book provides a solid foundation in the principles of heat and mass transfer and shows how to solve problems by applying modern methods The basic theory is developed systematically exploring in detail the solution methods to all important problems The revised second edition incorporates state of the art findings on heat and mass transfer correlations The book will be useful not only to upper and graduate level students but also to practicing scientists and engineers Many worked out examples and numerous exercises with their solutions will facilitate learning and understanding and an appendix includes data on key properties of important substances

*Design and Optimization of Thermal Systems, Third Edition* Yogesh Jaluria, 2019-09-06 Design and Optimization of Thermal Systems Third Edition with MATLAB Applications provides systematic and efficient approaches to the design of thermal systems which are of interest in a wide range of applications It presents basic concepts and procedures for conceptual design problem formulation modeling simulation design evaluation achieving feasible design and optimization Emphasizing modeling and simulation with experimentation for physical insight and model validation the third edition covers the areas of material selection manufacturability economic aspects sensitivity genetic and gradient search methods knowledge based design methodology uncertainty and other aspects that arise in practical situations This edition features many new and revised examples and problems from diverse application areas and more extensive coverage of analysis and simulation with MATLAB

*Computational Fluid Mechanics and Heat Transfer, Third Edition* Richard H. Pletcher, John C. Tannehill, Dale Anderson, 2012-08-30 Thoroughly updated to include the latest developments in the field this classic text on finite difference and finite volume computational methods maintains the fundamental concepts covered in the first edition As an introductory text for advanced undergraduates and first year graduate students Computational Fluid Mechanics and Heat Transfer Third Edition provides the background necessary for solving complex problems in fluid mechanics and heat transfer Divided into

two parts the book first lays the groundwork for the essential concepts preceding the fluids equations in the second part It includes expanded coverage of turbulence and large eddy simulation LES and additional material included on detached eddy simulation DES and direct numerical simulation DNS Designed as a valuable resource for practitioners and students new homework problems have been added to further enhance the student s understanding of the fundamentals and applications

*Fundamentals of Thermal-fluid Sciences* Yunus A. Çengel,Robert H. Turner,John M. Cimbala,2008 The authors present coverage of the three major subject areas comprising thermal fluid engineering thermodynamics fluid mechanics and heat transfer By emphasising the underlying physical phenomena involved they encourage both creative thinking and development of a deeper understanding of the subject

*Flow and Transport Properties of Unconventional Reservoirs 2018* Jianchao Cai,Zhien Zhang,Qinjun Kang,Harpreet Singh,2019-07-23 Unconventional reservoirs are usually complex and highly heterogeneous such as shale coal and tight sandstone reservoirs The strong physical and chemical interactions between fluids and pore surfaces lead to the inapplicability of conventional approaches for characterizing fluid flow in these low porosity and ultralow permeability reservoir systems Therefore new theories and techniques are urgently needed to characterize petrophysical properties fluid transport and their relationships at multiple scales for improving production efficiency from unconventional reservoirs This book presents fundamental innovations gathered from 21 recent works on novel applications of new techniques and theories in unconventional reservoirs covering the fields of petrophysical characterization hydraulic fracturing fluid transport physics enhanced oil recovery and geothermal energy Clearly the research covered in this book is helpful to understand and master the latest techniques and theories for unconventional reservoirs which have important practical significance for the economic and effective development of unconventional oil and gas resources

**Computational Bodily Fluid Dynamics** Eleuterio F. Toro,2025-09-25 This book provides fundamental information on all aspects of computational haemodynamics in an integrated manner combining physiology fluid mechanics differential equations and related numerical methods computing experiments and cardiovascular pathologies Further it demonstrates how to develop mathematical models for blood and other physiological fluids such as cerebrospinal fluid all in the context of research on cardiovascular and neurodegenerative diseases The book is based on two Master s courses and a PhD Winter School course taught at the University of Trento Italy Its target audience includes Master s students and PhD researchers in engineering mathematics computer science and medicine but it will also benefit medical professionals researchers and academics

*Handbook of Numerical Heat Transfer* W. J. Minkowycz,1988-03-28 Presents a comprehensive accessible and readily usable reference to the necessary formulations numerical schemes and innovative solution techniques for solving problems of heat and mass transfer and related fluid flows Grouped by major sets of methods and functions the text describes new or improved as well as standard procedures This collection of contributions from leading figures in the field covers parabolic systems hyperbolic systems integral and integro differential systems Monte Carlo

and perturbation methods inverse problems and more

### **An Introduction to Transport Phenomena in Materials**

**Engineering** David R. Gaskell, Matthew John M. Krane, 2024-01-24 This book elucidates the important role of conduction convection and radiation heat transfer mass transport in solids and fluids and internal and external fluid flow in the behavior of materials processes These phenomena are critical in materials engineering because of the connection of transport to the evolution and distribution of microstructural properties during processing From making choices in the derivation of fundamental conservation equations to using scaling order of magnitude analysis showing relationships among different phenomena to giving examples of how to represent real systems by simple models the book takes the reader through the fundamentals of transport phenomena applied to materials processing Fully updated this third edition of a classic textbook offers a significant shift from the previous editions in the approach to this subject representing an evolution incorporating the original ideas and extending them to a more comprehensive approach to the topic **FEATURES** Introduces order of magnitude scaling analysis and uses it to quickly obtain approximate solutions for complicated problems throughout the book Focuses on building models to solve practical problems Adds new sections on non Newtonian flows turbulence and measurement of heat transfer coefficients Offers expanded sections on thermal resistance networks transient heat transfer two phase diffusion mass transfer and flow in porous media Features more homework problems mostly on the analysis of practical problems and new examples from a much broader range of materials classes and processes including metals ceramics polymers and electronic materials Includes homework problems for the review of the mathematics required for a course based on this book and connects the theory represented by mathematics with real world problems This book is aimed at advanced engineering undergraduates and students early in their graduate studies as well as practicing engineers interested in understanding the behavior of heat and mass transfer and fluid flow during materials processing While it is designed primarily for materials engineering education it is a good reference for practicing materials engineers looking for insight into phenomena controlling their processes A solutions manual lecture slides and figure slides are available for qualifying adopting professors Companion website <https://transportphenomena.org>

### **Previews of Heat and Mass**

**Transfer**, 1989 **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 **Scientific and Technical**

**Books and Serials in Print**, 1984 Journal of Thermophysics and Heat Transfer, 1998 **Mechanical Engineering**

**News**, 1981 Journal of Chemical Engineering of Japan, 1978 Includes abstracts of Kagaku k gaku v 31 Transactions of

the American Institute of Electrical Engineers American Institute of Electrical Engineers, 1923 List of members in v 7 15 17

19 20 **The International Journal of Mechanical Engineering Education**, 1986 **Forthcoming Books** Rose

Army, 2000 Engineering Education, 1979 Transactions of the Faraday Society Faraday Society, 1971

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