

# ANSWERS TO SELECTED EXERCISES

## (A) ODD-NUMBERED EXERCISES

### Chapter 1

- 1-3 (i) 83.8 MW, (ii) 33.9 kg/s  
 1-5 (i) 14.9, (ii) 13.6 cm, (iii) 1.14  
 1-7 10.1 W/m<sup>2</sup>; 18.0°C and 2.0°C  
 1-9 1.22 cm  
 1-11 39.6 W (34.0 kcal/h)  
 1-17 (ii) -163 W  
 1-19 72°C  
 1-21 (i) 72.0 mW, (ii) 119 mW  
 1-23 (i) 4.28 kW, (ii) 1.88 kW, (iii) 0.36 kW  
 1-25 20°C  
 1-27 6.8 W/m<sup>2</sup> K  
 1-29 (iii) 3640 W  
 1-31 (i) 270 K, (ii) 274 K, (iii) 276 K, 277 K  
 1-33 630 s  
 1-35 48 h  
 1-37 (i) 9170 W/m<sup>2</sup> K, (ii) 0.068  
 1-39 17.2 min  
 1-41 (i) 0.51°C, (ii) 30°C  
 1-43 (iii) 0.614 K, -1.509; 2.0 K, -1.37  
 1-45 316 K  
 1-47 50.1°C, 2.66 h  
 1-51 (i) 1078 mbar; 826 mbar; (ii) 374.8 K; 367.5 K

### Chapter 2

- 2-1  $T = -(1/s - T_0) \pm [(1/s - T_0)^2 - T_1^2 + (2/s - 2/T_0)T_1 - 2qx/k_0a]^{1/2}$   
 2-3 (i)  $2k_A k_B / (k_A + k_B)$ ; (ii)  $(k_A + k_B)/2$   
 2-7 121 W/m<sup>2</sup>  
 2-9 3.80 W/m  
 2-11 0.12 W/m K  
 2-13 0.134 W/m K  
 2-15 19.1 mm  
 2-17 4.6 mm; 12.1 W/m  
 2-19 (i) 2.7 mm, (ii) 3.3 mm  
 2-23 (i)  $2k/h_{\text{eq}}$ , (ii)  $(3k/2\alpha)^2$   
 2-25 (i) 4.70 W, (ii) 5.75 MW/m<sup>2</sup>, (iii) 1.47 kW/m<sup>2</sup>  
 2-27 84.1 A  
 2-29 (i) 165 MW/m<sup>2</sup>, (ii) 93.3 W  
 2-33 14.3 kW  
 2-37 Yes

# Mills Heat Transfer Solutions Manual

**Shasha Hu**



## **Mills Heat Transfer Solutions Manual:**

Heat Transfer S/M Sup Anthony F. Mills, Mills, 1998-10      **Solutions Manual [for] Basic Heat and Mass Transfer, Second Edition** Anthony F. Mills, 1999      Heat Transfer Anthony F. Mills, 1992      Heat and Mass Transfer Anthony Mills, 1995-02-13 This complete reference book covers topics in heat and mass transfer containing extensive information in the form of interesting and realistic examples problems charts tables illustrations and more Heat and Mass Transfer emphasizes practical processes and provides the resources necessary for performing accurate and efficient calculations This excellent reference comes with a complete set of fully integrated software available for download at crcpress com consisting of 21 computer programs that facilitate calculations using procedures developed in the text Easy to follow instructions for software implementation make this a valuable tool for effective problem solving      **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      **Pesticide analytical manual** United States. Food and Drug Administration, 1977      **Analytical Heat Transfer - Solutions Manual** Taylor & Francis Group, 2011-10-31      Heat Transfer Adrian Bejan, 1992-08-26      *Basic heat transfer* M. Necati Özışık, 1977      **Heat transfer** James Sucec, 1985      Solutions Manual - Engineering Heat Transfer William S. Janna, IRA Wolinsky, 2002-11      *Solutions Manual* Lindon C. Thomas, 1991      **Whitaker's Cumulative Book List** , 1985      *Computational Fluid Dynamics - Analysis, Simulations, and Applications* Mahboub Baccouch, 2025-02-26 This book comprehensively explores numerical methods and their applications across diverse fields strongly focusing on computational fluid dynamics CFD and advanced modeling techniques Starting with numerical approaches for solving the viscous and inviscid Burgers equations establishes a foundation for understanding complex fluid dynamics Subsequent chapters delve into cutting edge topics including Large Eddy Simulations LES for turbulence modeling heat transfer analysis and the influence of working fluids on vortex dynamics in industrial pipelines The book also explores emerging areas such as nanoscale simulations plasmonic excitations and biomedical applications like hemodynamics in atrial fibrillation Real world case studies and practical examples demonstrate the versatility of CFD in addressing challenges in engineering biology and energy systems This book combines theoretical rigour with practical insights and is designed for advanced undergraduate and graduate students researchers and professionals It bridges the gap between numerical theory and real world applications providing readers with the tools to solve complex problems across various scientific and engineering domains Whether you are looking to deepen your understanding of numerical methods enhance your CFD expertise or explore innovative applications this book is a valuable resource for gaining actionable insights and fostering innovation in computational modeling      **Solutions Manual to Accompany Heat Transfer** Jack Phillip Holman, 1972      **Previews of Heat and Mass Transfer** , 1991      **Solutions Manual to Accompany Basic Heat Transfer** Frank Kreith, William Z. Black, 1980      **Heat Transfer** Jack Philip Holman, 1990      *Engineering Education* , 1973-10      **Heat**

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