#### ANSWERS TO SELECTED EXERCISES

#### (A) ODD-NUMBERED EXERCISES

#### Chapter 1

```
(i) 83.8 MW, (ii) 33.9 kg/s
1-3
            (i) 14.9, (ii) 13.6 cm, (iii) 1.14
1-5
            10.1 W/m2; 18.0°C and 2.0°C
1-7
1-9
            1.22 cm
            39.6 W (34.0 kcal/h)
1 - 11
1 - 17
            (iii) -163 W
1 - 19
            72°C
1 - 2.1
            (i) 72.0 mW, (ii) 119 mW
1 - 23
            (i) 4.28 kW, (ii) 1.88 kW, (iii) 0.36 kW
1 - 2.5
            20°C
            6.8 W/m2 K
1-27
            (iii) 3640 W
1-29
1-31
            (i) 270 K, (ii) 274 K, (iii) 276 K, 277 K
1-33
            630 s
1 - 35
            48 h
            (i) 9170 W/m2 K, (ii) 0.068
1-37
1-39
            17.2 min
            (i) 0.51°C, (ii) 30°C
1 - 41
1 - 43
            (iii) 0.614 K. -1.509; 2.0 K. -1.37
            316 K
1-45
            50.1°C, 2.66 h
1-47
1-51
            (i) 1078 mbar; 826 mbar; (ii) 374.8 K; 367.5 K
```

### Chapter 2

2-1	$T = -(1/a-T_0) \pm \{(1/a-T_0)^2 - T_1^2 + (2/a-2/T_0)T_1 - 2qx/k_0a\}^{1/2}$
2-3	(i) $2k_Ak_B/(k_A+k_B)$ ; (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	<ul><li>(i) 2k/h<sub>α</sub>,</li><li>(ii) (3k/2α)<sup>2</sup></li></ul>
2-25	(i) 4.70 W, (ii) 5.75 MW/m <sup>3</sup> , (iii) 1.47 kW/m <sup>2</sup>
2-27	84.1 A
2-29	(i) 165 MW/m <sup>3</sup> , (ii) 93.3 W
2-33	14.3 kW
2-37	Yes

# **Heat Transfer Third Edition Solution Solution Manual**

Sadik Kakac, Yaman Yener, Anchasa Pramuanjaroenkij

#### **Heat Transfer Third Edition Solution Solution Manual:**

Solution's Manual - Computational Fluid Mechanics and Heat Transfer Third Edition Taylor & Francis The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition J. N. Group,2012-08-15 Reddy, D.K. Gartling, 2010-04-06 As Computational Fluid Dynamics CFD and Computational Heat Transfer CHT evolve and become increasingly important in standard engineering design and analysis practice users require a solid understanding of mechanics and numerical methods to make optimal use of available software The Finite Element Method in Heat Transfer and Fluid Dynamics Third Edition illustrates what a user must know to ensure the optimal application of computational procedures particularly the Finite Element Method FEM to important problems associated with heat conduction incompressible viscous flows and convection heat transfer This book follows the tradition of the bestselling previous editions noted for their concise explanation and powerful presentation of useful methodology tailored for use in simulating CFD and CHT The authors update research developments while retaining the previous editions key material and popular style in regard to text organization equation numbering references and symbols This updated third edition features new or extended coverage of Coupled problems and parallel processing Mathematical preliminaries and low speed compressible flows Mode superposition methods and a more detailed account of radiation solution methods Variational multi scale methods VMM and least squares finite element models LSFEM Application of the finite element method to non isothermal flows Formulation of low speed compressible flows With its presentation of realistic applied examples of FEM in thermal and fluid design analysis this proven masterwork is an invaluable tool for mastering basic methodology competently using existing simulation software and developing simpler special purpose computer codes It remains one of the very best resources for understanding numerical methods used in the study of fluid mechanics and heat transfer phenomena Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1978 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 **Convective Heat Transfer, Third Edition** Sadik Kakac, Yaman Yener, Anchasa Pramuanjaroenkij, 2013-12-17 Intended for readers who have taken a basic heat transfer course and have a basic knowledge of thermodynamics heat transfer fluid mechanics and differential equations Convective Heat

Transfer Third Edition provides an overview of phenomenological convective heat transfer This book combines applications of engineering with the basic concepts of convection It offers a clear and balanced presentation of essential topics using both traditional and numerical methods The text addresses emerging science and technology matters and highlights biomedical applications and energy technologies What's New in the Third Edition Includes updated chapters and two new chapters on heat transfer in microchannels and heat transfer with nanofluids Expands problem sets and introduces new correlations and solved examples Provides more coverage of numerical computer methods The third edition details the new research areas of heat transfer in microchannels and the enhancement of convective heat transfer with nanofluids The text includes the physical mechanisms of convective heat transfer phenomena exact or approximate solution methods and solutions under various conditions as well as the derivation of the basic equations of convective heat transfer and their solutions A complete solutions manual and figure slides are also available for adopting professors Convective Heat Transfer Third Edition is an ideal reference for advanced research or coursework in heat transfer and as a textbook for senior graduate students majoring in mechanical engineering and relevant engineering courses Heat Conduction David W. Hahn, M. Necati Özisik,2012-08-20 HEAT CONDUCTION Mechanical Engineering THE LONG AWAITED REVISION OF THE BESTSELLER ON HEAT CONDUCTION Heat Conduction Third Edition is an update of the classic text on heat conduction replacing some of the coverage of numerical methods with content on micro and nanoscale heat transfer With an emphasis on the mathematics and underlying physics this new edition has considerable depth and analytical rigor providing a systematic framework for each solution scheme with attention to boundary conditions and energy conservation Chapter coverage includes Heat conduction fundamentals Orthogonal functions boundary value problems and the Fourier Series The separation of variables in the rectangular coordinate system The separation of variables in the cylindrical coordinate system The separation of variables in the spherical coordinate system Solution of the heat equation for semi infinite and infinite domains The use of Duhamel s theorem The use of Green's function for solution of heat conduction The use of the Laplace transform One dimensional composite medium Moving heat source problems Phase change problems Approximate analytic methods Integral transform technique Heat conduction in anisotropic solids Introduction to microscale heat conduction In addition new capstone examples are included in this edition and extensive problems cases and examples have been thoroughly updated A solutions manual is also available Heat Conduction is appropriate reading for students in mainstream courses of conduction heat transfer students in mechanical engineering and engineers in research and design functions throughout industry Exchangers Sadik Kakaç, Hongtan Liu, Anchasa Pramuanjaroenkij, 2020-01-21 Heat exchangers are essential in a wide range of engineering applications including power plants automobiles airplanes process and chemical industries and heating air conditioning and refrigeration systems Revised and fully updated with new problem sets Heat Exchangers Selection Rating and Thermal Design Fourth Edition presents a systematic treatment of heat exchangers focusing on selection thermal

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