

- 1.12 On an overcast day the directional behavior of the intensity of solar radiation reaching the surface of the earth after being scattered by the atmosphere may be approximated as $I_{\text{sky}}(\theta) = I_{\text{sky}}(\theta = 0) \cos \theta$, where θ is measured from the surface normal. For a day with $I_{\text{sky}}(0) = 100 \text{ W/m}^2\text{sr}$ determine the solar irradiation hitting a solar collector, if the collector is (a) horizontal, (b) tilted from the horizontal by 30° . Neglect radiation from the earth's surface hitting the collector (by emission or reflection).

Solution

(a) For a horizontal collector the solar irradiation is readily determined from equation (1.36) as

$$\begin{aligned} q_{\text{in}} &= \int_0^{2\pi} \int_0^{\pi/2} (I_0 \cos \theta) \cos \theta \sin \theta \, d\theta \, d\psi \\ &= 2\pi I_0 \int_0^{\pi/2} \cos^2 \theta \sin \theta \, d\theta = \frac{2\pi}{3} I_0 = \frac{2\pi}{3} \times 100 \end{aligned}$$

$$\boxed{q_{\text{in}} = 209.4 \text{ W/m}^2}$$

(b) To evaluate q_{in} for a tilted collector, equation (1.36) becomes

$$q_{\text{in}} = \int_{\Omega > 0} I_0 (\hat{\mathbf{k}} \cdot \hat{\mathbf{s}}) (\hat{\mathbf{n}} \cdot \hat{\mathbf{s}}) \, d\Omega,$$

where $\hat{\mathbf{k}} \cdot \hat{\mathbf{s}} = \cos \theta$ gives the variation of sky intensity with sky polar angle θ , while $\hat{\mathbf{n}} \cdot \hat{\mathbf{s}} = \cos \theta'$ is the cosine of the angle between the surface normal and a unit vector pointing into the sky, $\hat{\mathbf{s}}$. This unit vector may be expressed in terms of $\hat{\mathbf{i}}, \hat{\mathbf{j}}, \hat{\mathbf{k}}$ (unit vectors for an earth-bound coordinate system), with

$$\hat{\mathbf{i}}' = \cos \alpha \hat{\mathbf{i}} - \sin \alpha \hat{\mathbf{k}}, \quad \hat{\mathbf{j}}' = \hat{\mathbf{j}}, \quad \hat{\mathbf{n}} = \sin \alpha \hat{\mathbf{i}} + \cos \alpha \hat{\mathbf{k}},$$

as

$$\begin{aligned} \hat{\mathbf{s}} &= \sin \theta \cos \psi \hat{\mathbf{i}} + \sin \theta \sin \psi \hat{\mathbf{j}} + \cos \theta \hat{\mathbf{k}} \\ &= \sin \theta' \cos \psi' \hat{\mathbf{i}}' + \sin \theta' \sin \psi' \hat{\mathbf{j}}' + \cos \theta' \hat{\mathbf{n}}. \end{aligned}$$

Substituting for $\hat{\mathbf{i}}', \hat{\mathbf{j}}'$ and $\hat{\mathbf{n}}$, $\hat{\mathbf{s}}(\theta', \psi')$ becomes

$$\begin{aligned} \hat{\mathbf{s}} &= (\sin \theta' \cos \psi \cos \alpha + \cos \theta' \sin \alpha) \hat{\mathbf{i}} + \sin \theta' \sin \psi' \hat{\mathbf{j}} \\ &\quad + (\cos \theta' \cos \alpha - \sin \theta' \cos \psi' \sin \alpha) \hat{\mathbf{k}}. \end{aligned}$$

Equation (1.36) may be evaluated by evaluating $\hat{\mathbf{k}} \cdot \hat{\mathbf{s}}$ in collector coordinates (i.e., integrating over θ' and ψ'), or by determining $\hat{\mathbf{n}} \cdot \hat{\mathbf{s}}$ in global coordinates (integrating over θ and ψ). Choosing the former, one obtains

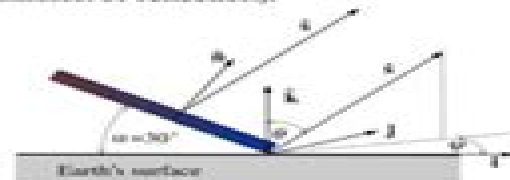
$$q_{\text{in}} = \int_{\substack{\Omega > 0 \\ \hat{\mathbf{k}} \cdot \hat{\mathbf{s}} > 0}} I_0 (\cos \theta' \cos \alpha - \sin \theta' \cos \psi' \sin \alpha) \cos \theta' \sin \theta' \, d\theta' \, d\psi'$$

The integration limits imply that only directions above the collector ($0 < \theta' < \pi/2$) and above the horizontal

$$\hat{\mathbf{k}} \cdot \hat{\mathbf{s}} = \cos \theta = \cos \theta' \cos \alpha - \sin \theta' \cos \psi' \sin \alpha > 0$$

are to be considered. Solving the last expression for $\cos \psi'$ yields

$$\cos \psi' < \cot \alpha \cot \theta',$$



Heat Transfer Third Edition Solution Solution Manual

J. N. Reddy, D.K. Gartling



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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 *Solution's Manual - Computational Fluid Mechanics and Heat Transfer Third Edition* Taylor & Francis Group, 2012-08-15 *Engineering Heat Transfer, Third Edition - Solutions Manual* William S. Janna, 2008-09-15 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 *Convective Heat Transfer* 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

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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

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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

Heat Exchangers Sadik Kakaç,Hongtan Liu,Anchasa Pramuanjaroenkij,2012-03-01 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 updated with new problem sets and examples Heat Exchangers Selection Rating and Thermal Design Third Edition presents a *Applied Mechanics Reviews* ,1973

Thermal Radiation Heat Transfer, 5th Edition John R. Howell,M. Pinar Menguc,Robert Siegel,2010-09-28 Providing a comprehensive overview of the radiative behavior and properties of materials the fifth edition of this classic textbook describes the physics of radiative heat transfer development of relevant analysis methods and associated mathematical and numerical techniques Retaining the salient features and fundamental coverage that have made it popular Thermal Radiation Heat Transfer Fifth Edition has been carefully streamlined to omit superfluous material yet enhanced to update information with extensive references Includes four new chapters on Inverse Methods Electromagnetic Theory Scattering and Absorption by Particles and Near Field Radiative Transfer Keeping pace with significant developments this book begins by addressing the radiative properties of blackbody and opaque materials and how they are predicted using electromagnetic theory and obtained through measurements It discusses radiative exchange in enclosures without any radiating medium between the surfaces and where heat conduction is included within the boundaries The book also covers the radiative properties of gases and addresses energy exchange when gases and other materials interact with radiative energy as occurs in furnaces To make this challenging subject matter easily understandable for students the authors have revised and reorganized this textbook to produce a streamlined practical learning tool that Applies the common nomenclature adopted by the major heat transfer journals Consolidates past material reincorporating much of the previous text into appendices Provides an updated expanded and alphabetized collection of references assembling them in one appendix Offers a helpful list of symbols With worked out examples chapter end homework problems and other useful learning features such as concluding remarks and historical notes this new edition continues its tradition of serving both as a comprehensive textbook for those studying and applying radiative transfer and as a repository of vital literary references for the serious researcher

The Finite Element Method Darrell W. Pepper,Juan C. Heinrich,2017-04-11 This self explanatory guide introduces the basic fundamentals of the Finite Element Method in a clear manner using comprehensive examples

Beginning with the concept of one dimensional heat transfer the first chapters include one dimensional problems that can be solved by inspection The book progresses through more detailed two dimensional elements to three dimensional elements including discussions on various applications and ending with introductory chapters on the boundary element and meshless methods where more input data must be provided to solve problems Emphasis is placed on the development of the discrete set of algebraic equations The example problems and exercises in each chapter explain the procedure for defining and organizing the required initial and boundary condition data for a specific problem and computer code listings in MATLAB and MAPLE are included for setting up the examples within the text including COMSOL files Widely used as an introductory Finite Element Method text since 1992 and used in past ASME short courses and AIAA home study courses this text is intended for undergraduate and graduate students taking Finite Element Methodology courses engineers working in the industry that need to become familiar with the FEM and engineers working in the field of heat transfer It can also be used for distance education courses that can be conducted on the web Highlights of the new edition include Inclusion of MATLAB MAPLE code listings along with several COMSOL files for the example problems within the text Power point presentations per chapter and a solution manual are also available from the web Additional introductory chapters on the boundary element method and the meshless method Revised and updated content Simple and easy to follow guidelines for understanding and applying the Finite Element Method

Fundamentals of Solidification 5th edition with Solutions Manual Wilfried Kurz, David J. Fisher, Michel Rappaz, 2023-08-23 Since the 4th 1998 edition there have been numerous crucial advances to the modelling and the basic understanding of solidification phenomena and with its linking to experimental results These topics have been incorporated into this 5th Fully Revised Edition as well as a new final chapter on microstructure selection which explains how to combine the concepts of the preceding chapters for modelling real microstructures in complex processes such as additive manufacturing This new 5th edition is of high interest to undergraduate and graduate levels and professionals With its numerous new topics also borne out by the new authorship students and teachers scientists and engineers will greatly benefit from this new book The topics are presented in the same praised manner as in previous editions readable at three levels an initial feel for the subject is obtained by consulting the figures and their detailed captions a deeper understanding of the underlying physics is found by working through the main text 15 appendices offer a detailed analysis of the various theories by providing detailed derivations of the relevant equations Particularly Novel the final chapter 8 on microstructure selection explains how to combine the concepts of the preceding chapters to model the real microstructures formed during complex processes such as additive manufacturing and the new detailed phase field appendix which opens the door to the accurate computer modelling of growth forms This edition goes with a companion Solutions Manual offering model solutions to 133 problems exercises

Mechanical Engineering News, 1985

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>

Handbook of Pharmaceutical Manufacturing Formulations, Third Edition Sarfaraz K. Niazi, 2019-12-06 The Handbook of Pharmaceutical Manufacturing Formulations Third Edition Volume Five Over the Counter Products is an authoritative and practical guide to the art and science of formulating drugs for commercial manufacturing With thoroughly revised and expanded content this fifth volume of a six volume set compiles data from FDA and EMA new drug applications patents and patent applications and other sources of generic and proprietary formulations including author's own experience to cover the broad spectrum of cGMP formulations and issues in using these formulations in a commercial setting A must have collection for pharmaceutical manufacturers educational institutions and regulatory authorities this is an excellent platform for drug companies to benchmark their products and for generic companies to formulate drugs coming off patent Features Largest source of authoritative and practical formulations cGMP compliance guidance and self audit suggestions Differs from other publications on formulation science in that it focuses on readily scalable commercial formulations that can be adopted for

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