

- 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

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

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

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

as

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

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

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

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

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

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

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

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

**Wilfried Kurz, David J. Fisher, Michel
Rappaz**



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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

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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 Handbook of Pharmaceutical Manufacturing Formulations, Third Edition Sarfaraz K.

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