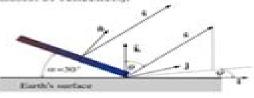
1.12 On an overcast day the directional behavior of the intensity of solar radiation reaching the surface of the earth after being scattered by the atmosphere may be approximated as I<sub>diy</sub>(0) = I<sub>diy</sub>(0 = 0) cos 0, where 0 is measured from the surface normal. For a day with I<sub>diy</sub>(0) = 100 W/m<sup>2</sup>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

$$q_{in} = \int_{0}^{2\pi} \int_{0}^{\pi/2} (I_0 \cos \theta) \cos \theta \sin \theta d\theta d\psi$$
  
 $= 2\pi I_0 \int_{0}^{\pi/2} \cos^2 \theta \sin \theta d\theta = \frac{2\pi}{3} I_0 = \frac{2\pi}{3} \times 100$ 



$$q_{\rm in} = 209.4 \, {\rm W/m^2}$$

(b) To evaluate q<sub>in</sub> for a tilted collector, equation (1.36) becomes

$$q_m = \int_{\mathbf{A}\cdot\mathbf{S}>0} I_0(\hat{\mathbf{k}}\cdot\mathbf{S})(\mathbf{\hat{n}}\cdot\mathbf{S}) d\Omega,$$

where  $\hat{\mathbf{k}} \cdot \hat{\mathbf{s}} = \cos \theta$  gives the variation of sky intensity with sky polar angle  $\theta$ , 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  $\mathbf{i}$ ,  $\mathbf{j}$ ,  $\hat{\mathbf{k}}$  (unit vectors for an earth-bound coordinate system), with

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

des

$$8 = \sin \theta \cos \psi \mathbf{I} + \sin \theta \sin \psi \mathbf{J} + \cos \theta \hat{\mathbf{k}}$$
  
=  $\sin \theta' \cos \psi' \mathbf{I}' + \sin \theta' \sin \psi' \mathbf{J}' + \cos \theta' \hat{\mathbf{h}}$ .

Substituting for  $\Gamma$ ,  $\Gamma$  and  $\Lambda$ ,  $\delta(\theta', \psi')$  becomes

$$\mathbf{\hat{s}} = (\sin \theta' \cos \psi \cos \alpha + \cos \theta' \sin \alpha)\mathbf{I} + \sin \theta' \sin \psi'\mathbf{I} + (\cos \theta' \cos \alpha - \sin \theta' \cos \psi' \sin \alpha)\mathbf{\hat{k}}.$$

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

$$q_{in} = \int_{0}^{\pi} I_{il}(\cos \theta' \cos \alpha - \sin \theta' \cos \phi' \sin \alpha) \cos \theta' \sin \theta' d\theta' d\psi'$$

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

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

are to be considered. Solving the last expression for cos \u03c3 v yields

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

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

David R. Gaskell, Matthew John M. Krane

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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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