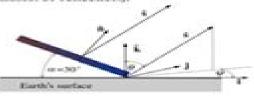
1.12 On an overcast day the directional behavior of the intensity of solar radiation reaching the surface of the earth after being scattered by the atmosphere may be approximated as I<sub>diy</sub>(0) = I<sub>diy</sub>(0 = 0) cos 0, where 0 is measured from the surface normal. For a day with I<sub>diy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

**Sabine Zange** 

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

This book delves into Heat Transfer Third Edition Solution Solution Manual. Heat Transfer Third Edition Solution Solution Manual is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Heat Transfer Third Edition Solution Solution Manual, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 1: Introduction to Heat Transfer Third Edition Solution Solution Manual
  - Chapter 2: Essential Elements of Heat Transfer Third Edition Solution Solution Manual
  - Chapter 3: Heat Transfer Third Edition Solution Solution Manual in Everyday Life
  - Chapter 4: Heat Transfer Third Edition Solution Solution Manual in Specific Contexts
  - ∘ Chapter 5: Conclusion
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- 3. In chapter 2, this book will delve into the foundational concepts of Heat Transfer Third Edition Solution Manual. This chapter will elucidate the essential principles that need to be understood to grasp Heat Transfer Third Edition Solution Solution Manual in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Heat Transfer Third Edition Solution Manual in daily life. The third chapter will showcase real-world examples of how Heat Transfer Third Edition Solution Solution Manual can be effectively utilized in everyday scenarios.
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- 6. In chapter 5, the author will draw a conclusion about Heat Transfer Third Edition Solution Solution Manual. The final chapter will summarize the key points that have been discussed throughout the book.

  This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Heat Transfer Third Edition Solution.

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