

- 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

Sabine Zange



Heat Transfer Third Edition Solution Solution Manual:

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