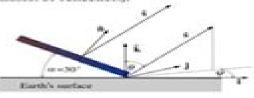
1.12 On an overcast day the directional behavior of the intensity of solar radiation reaching the surface of the earth after being scattered by the atmosphere may be approximated as I_{diy}(0) = I_{diy}(0 = 0) cos 0, where 0 is measured from the surface normal. For a day with I_{diy}(0) = 100 W/m²sr 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_{in} 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 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 \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 Γ , Γ and Λ , $\delta(\theta', \psi')$ 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 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

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

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

$$\cos \psi' < \cot \alpha \cot \theta'$$
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Wilfried Kurz, David J. Fisher, Michel Rappaz

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