

Chapter 4: Problems

- 4.1** Consider the design of a "light shelf" for the south side of an office building located at a site with latitude 30° . The idea is that the light shelf should help keep direct sunlight from entering the office. It also bounces light up onto the ceiling to distribute natural daylight more uniformly into the office.



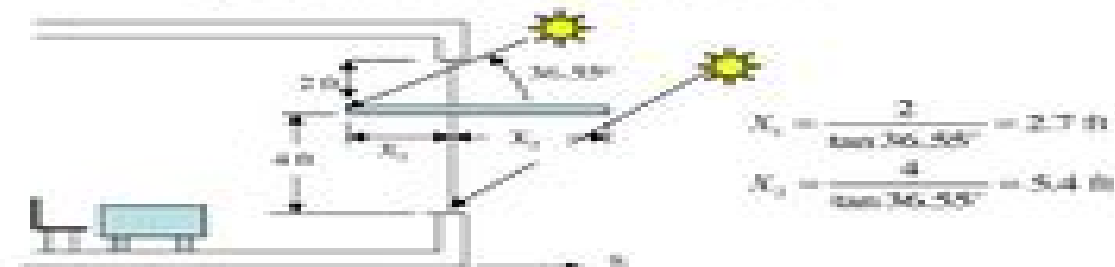
Figure P-4.X

As shown, the window directly above the light shelf is 2-feet high and the window directly below is 4-ft. What should the dimensions X_1 and X_2 be to be sure that no direct sunlight ever enters the space at solar noon?

- SOLN:** The worst-day will be at the winter solstice when the sun is lowest in the sky, at which point the declination is -23.45° .

From (4.7) the noon altitude angle of the sun is

$$\beta_{\text{no}} = 90 - L + \delta = 90 - 30 - 23.45 = 36.55^\circ$$



- 4.2** Rows of buildings with photovoltaics covering vertical south-facing walls need to have adequate spacing to assure one building doesn't shade the collectors on another.

Renewable And Efficient Solution Manual

Chao Zhang



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