Since the satellite has a surface area $4\pi r^2$ and a uniform temperature T it must radiate power

 $4\pi r^2 \sigma T^4 \varepsilon$.

At equilibrium the absorbed and radiated powers must be equal, so

$$r^2\Omega\sigma T_S^4\varepsilon=4\pi r^2\sigma T^4\varepsilon,$$

which can be rearranged to give

$$T = T_{\rm S} \left(\frac{\Omega}{4\pi}\right)^{1/4}.$$

Taking $\Omega = 7 \times 10^{-5}$ sr and $T_S = 5800$ K gives T = 280 K.

[This problem gives a simplified understanding of the Earth's mean temperature, since the Sun subtends a mean solid angle of 6.80×10^{-5} sr at the Earth.]

Problem 172

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Kavati Venkateswarlu

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