average intensity of radiation from the Sun incident at the Earth's surface over a our period has been determined to be 164W m ⁻² .	
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Radiation	
from the Sun	
The average intensity of radiation from the Sun at the Earth's surface is much less than the intensity incident at the top of the Earth's atmosphere. Explain why.	
	(4)
t is claimed that the area of solar panels needed to generate $100\mathrm{GW}$ of power is bout 0.5% of the surface area of the Earth. Assess the validity of this claim. addius of Earth = $6.4\times10^6\mathrm{m}$	
ypical efficiency of solar panels = 25%	(4)
ntists are developing a space station equipped with large solar panels. The space on would be located in a geostationary orbit. The space station would transfer by to Earth as microwaves.	
A space station in a geostationary orbit is above the equator and has a period of 4 hours.	
manage of focusing the space station in a geostationary of our	(2)
Calculate the height h of the space station above the equator when it is in a reostationary orbit.	
hass of Earth = 6.00×10^{24} kg $4 \text{ hours} = 8.64 \times 10^4$ s	(4)
	tis claimed that the area of solar panels needed to generate $100\mathrm{GW}$ of power is bout 0.5% of the surface area of the Earth. Assess the validity of this claim. adius of Earth = $6.4 \times 10^6\mathrm{m}$ ypical efficiency of solar panels = 25% Attists are developing a space station equipped with large solar panels. The space in your panels in a geostationary orbit. The space station would transfer by to Earth as microwaves. As space station in a geostationary orbit is above the equator and has a period of 4 hours. Explain one advantage of locating the space station in a geostationary orbit. Calculate the height h of the space station above the equator when it is in a costationary orbit.