ون الترویان

Quiz (1)

Name:
Sec. :
1-The emissivity is equal to one (= 1) incase of
less one (< 1) incase of
and equal to zero (= 0) incase of
2- By increasing the temperature of body , the wave length at maximum intensity shifts
····· (higher – lower) wavelengths .
3 is a hypothetical object which is a "perfect" absorber
and a "perfect" emitter of radiation over all wavelengths.
4- Determine the spectral energy density of the emission at 200nm and 3000K, where $K = 1.38 \times 10^{-23}$ j/K, $c = 3 \times 10^8$ m/s and $b = 6.625 \times 10^{-34}$.

5- A disc has radius 50mm. The wavelengths corresponding to maximum intensity are 300 nm. Calculate the power radiated a disc. where b = 0.29 cm.K , ϵ =0.7 and σ = 5.6 × 10⁻⁸.

Q1: If the wavelength in air is 630 nm, what's the wavelength in glass which		
refractive index is equal 1.5?		
Q2: Michelson interferometer, if we placed a material with index of refraction n and thickness t in the path of the light traveling to the movable mirror m ₂ , as depicted in Figure, Drive the measurement of thickness relation.	Defocuting less Half sulvered 2 Security control parties of the security s	
	Adjustable mirror	
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Q3: in the opposite figure, calculate the intensity		
of fringe at point P if the path difference is	P	
equal 2λ and the incident intensity is equal 2lux.	S, I	
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	, S ₂ , δ	
	L	
Q4: White light, with a uniform intensity across the visible wavelength	range of 400 to 690 nm, is perpendicularly	
incident on a water film, of index of refraction $n_2 = 1.33$ and thickness $L = 320$ nm, that is suspended in air. At		
what wavelength λ is the light reflected by the film brightest to an observer?		
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