

Section - 6 -

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Ques - a) Earth is a non-inertial frame of reference because it has acceleration due to rotatory motion around the sun & the spin motion about its own axis.

b) Wein's displacement law :-

→ As the temperature of the body is raised the maximum energy tends to be associated with shorter wavelength etc.

$$\lambda_m T = \text{constant}$$

λ_m → wavelength at which E is max.
 T → Absolute Temperature.

c) Newton's Ring & its application

Newton's Ring is a phenomenon in which an interference pattern is created by the reflection of light b/w two surfaces :- a spherical surface & an adjacent touching flat surface.



Applications

- ① By measuring the fringe separations, one can actually determine the thickness of the film of the material on interface. ~~Knowing the thickness of a gold slick is not readily not~~
- ② Another application, which is done with lasers, is to control the thickness of paint that is used on posters.