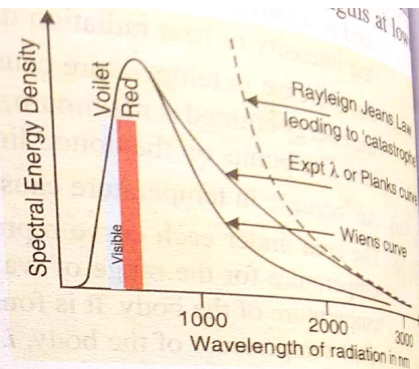


subject : PHYSICS
Topic : Rayleigh - Jeans Law
Class : T&E - I & Paper - II
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8.15 Rayleigh-Jeans Law

Lord Rayleigh and Sir J. Jeans tried to establish a relation for distribution of energy with wavelengths that could be made to fit with the experimental curves, on the assumption that the electromagnetic radiation spectrum emitted by a black body continuously vary in wavelengths from zero to infinity.



CHAPTER 8

According to Rayleigh-Jeans law the energy distribution is given by the formula
Planck's constant.

$$E_{\lambda} d\lambda = \frac{8\pi kT}{\lambda^4} d\lambda$$

...(8.12)