

- 2** The Rayleigh-Jeans Law is an approximation to the spectral radiance of electromagnetic radiation as a function of wavelength from a black body at a given temperature through classical arguments. For wavelength λ , its spectral radiance is: $B = \frac{2ckT}{\lambda^4}$, where c is the speed of light, k is the Boltzmann constant and T is the thermodynamic temperature.

What is the unit of B , expressed in SI base units?

A $m^{-3} s^{-1} K$

B $m^2 s^{-3} kg$

C $m^{-3} s^{-3} kg$

D $m^{-1} s^{-3} kg$