

- 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** $\text{m}^{-3} \text{s}^{-1} \text{K}$ **B** $\text{m}^2 \text{s}^{-3} \text{kg}$ **C** $\text{m}^{-3} \text{s}^{-3} \text{kg}$ **D** $\text{m}^{-1} \text{s}^{-3} \text{kg}$