

(a) Derive the Law of Radiative Energy transfer $P_{\text{radiative}} = \sigma A e T^4$ by

performing the integration: $\int_0^{\infty} I(\lambda, T) d\lambda = \sigma T^4$ where $I(\lambda, T)$ is the

Planck's radiation distribution. HINT: Make use of the variable change

$$x \equiv \frac{hc}{\lambda k_B T} \text{ and the integral result: } \int_0^{\infty} \frac{x^3 dx}{(e^x - 1)} = \frac{\pi^4}{15}$$

(b) Show that the Stefan-Boltzmann constant has the following value:

$$\sigma = \frac{2\pi^5 k_B^4}{15 h^3 c^2}$$

Radiative Energy Transfer Proc Of The Sy

RS Peters



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