

Homework of Modern Physics

May 2, 2024

1. The spectral energy density of Planck's radiation law was

$$u(\nu, T) = \frac{8\pi h\nu^3}{c^3} \frac{1}{e^{h\nu/k_B T} - 1}.$$

Find the constant of the Wien's displacement law $\lambda_{\max} T = \text{const.}$