

1. Evaluate how Planck's hypothesis of quantized energy change the understanding of electromagnetic radiation?
2. Compare and contrast Rayleigh-Jeans law with Planck's radiation law in terms of mathematical form, physical assumptions, and accuracy across the electromagnetic spectrum.
3. Use Rayleigh-Jeans law to estimate the total energy emitted by a blackbody at room temperature.
4. Given a plot of energy density vs. wavelength, identify the region where Rayleigh-Jeans law agrees with experimental results and where it diverges. Explain why.