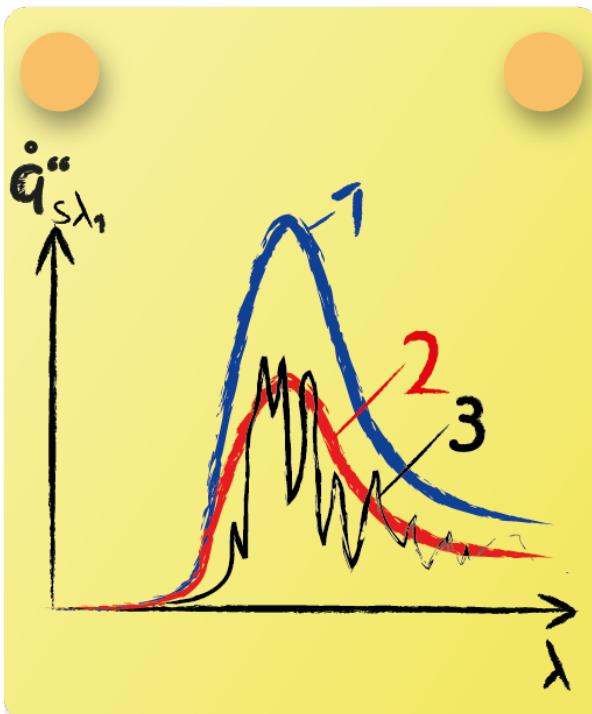


Fundamentals: Task 14



The diagram represents the characteristic spectral radiation densities for the emissions of certain bodies.



1 Black Body:

The maximum radiation intensity occurs in case of a black body, whose emission coefficient equals unity. That is it radiates the entire spectrum given by Planck.



2 Grey Body:

The spectrum of a grey body is reduced by its emission coefficient compared to a black body. The emission coefficient is smaller than unity and constant within the entire wave space.



3 Real Body:

A real body's radiation intensity however is scaled by a non constant emission coefficient and results in a rather chaotic spectrum.