

Elements Of Modern Physics

* Black body :

A black body is defined as a body which has the following characteristics :

- (i) It can absorb radiations of all wavelengths falling on it. So, its absorption coefficient is unity ($a_{\lambda} = 1$) at all wavelength λ .
- (ii) It cannot reflect radiation falling on it.
- (iii) It cannot transmit radiation falling on it.
- (iv) As the body can neither reflect nor transmit radiation of all wavelengths falling on it, it appears black.
- (v) Example of nearly perfect blackbody. blackbody.
① Lamp black, ② Platinum black, ③ Ferry's black
There is no surface which can be regarded as perfect black.

* Black body Radiation :

Suppose walls of a cavity are uniformly heated to a temperature (T). The radiation emitted by the hole in the cavity (blackbody) is called blackbody radiation.

Elements Of Modern Physics

VM Jensen



Elements Of Modern Physics:

Elements Of Modern Physics Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Elements Of Modern Physics**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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