

X-ray intensity

Essentially all X-ray measurements are made by photon counting techniques but the results are seldom converted to radiant flux or *irradiance* or *radiant exposure*. The term *photon flux* would be appropriate if the measurements were corrected for detector efficiency but this is seldom done for X-ray chemical analysis. Therefore the term X-ray intensity, I , is commonly used and expressed as photons/unit time detected. Likewise the term relative X-ray intensity, I_r , is used to mean the intensity for the analyte in an unknown specimen divided by the intensity for a known concentration of the analyte element.

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