

Illustrated Guide To X-ray Technics

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X-Ray Fluorescence is defined as "The emission of characteristic "secondary" (or fluorescent) X-rays from a material that has been excited by bombarding with high-energy X-rays or gamma rays. The phenomenon is widely used for elemental analysis.

How does XRF work? Characteristic X-rays are emitted from elements when their electrons make transitions between the atomic energy levels. If an electron transitions from a level with energy E_i to one with energy E_j , the emitted X-ray has energy $E_X = E_i - E_j$. Because each element has a unique set of atomic energy levels, it emits a unique set of X-rays which are characteristic of this element.

4p 4s. The chart below illustrates the nomenclature. It is somewhat confusing, because three distinct naming systems are used for the atomic shells.

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