X Fluorescence Spectrometer

OverviewEnergy dispersive spectrometryUnderlying physicsChemical analysisOther spectroscopic methods using the same principleInstrument qualificationSee alsoNotesIn energy-dispersive spectrometers (EDX or EDS), the detector allows the determination of the energy of the photon when it is detected. Detectors historically have been based on silicon semiconductors, in the form of lithium-drifted silicon crystals, or high-purity silicon wafers. These consist essentially of a 3-5 mm thick silicon junction type p-i-n diode (same as ...

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The X-ray fluorescence (XRF) spectrometer is an analytical instrument that employs X-ray technology to perform routine and minimally ...

The X-ray fluorescence (XRF) spectrometer is an analytical instrument that employs X-ray technology to perform routine and minimally invasive chemical analyses of various geological ...

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By measuring the energy and intensity of these emitted "secondary" X-rays, scientists can identify which elements are present in the sample and in what quantities.

X Fluorescence Spectrometer

X-ray fluorescence spectroscopy is designed for rapid materials characterization, providing nondestructive elemental analysis for a wide range of industries.

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