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electron probe X-ray microanalysis (EPXMA)

Any analytical technique which uses the excitation and evaluation of the characteristic X-ray spectrum of a solid specimen by a focused electron beam (typically of a diameter of less than 1 μm). Qualitative and quantitative X-ray analysis is the main feature of EPXMA. For obtaining supplementary information the secondary, back scattered and absorbed electrons are also frequently observed. Qualitative and quantitative X-ray analysis is, however, the main feature of EPXMA.

Source:
PAC, 1983, *55*, 2023 *(Nomenclature, symbols and units recommended for in situ microanalysis (Provisional))* on page 2024

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