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Spectral Analysis by Low-Voltage Impulse Discharge.
An Indirect Excitation Procedure*

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Abstract

An indirect procedure for the spectrometric excitation by a low voltage impulse discharge was studied. In this procedure the collision of excited atmosphere gas with the target materials caused the emission of the spectra of the target element. Nitrogen atmosphere and carbon auxiliary electrodes were found to be suitable and comparatively high intensity spectra could be obtained for magnesium, tin, lead and titanium. It has also been found that an application of this excitation procedure to non-conductive materials was effective.

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