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AUTHOR: ⑧ Baskov, V. S.; Berger, S. I.; Mal'tsev, M. G.; Palladin, M. N.;
Taganov, K. I.;

TITLE: ⑥ New data on spectroanalysis with preliminary contact-spark transport of the
sample material. Paper presented at the Fourteenth Conference on Spectroscopy held
in Gor'kiy 5 to 12 July 1961.

PERIODICAL: ⑫ AN SSSR. Izv. Ser. fizicheskaya, v. 27, no. 1, 1963, 2-3

TOPIC TAGS: spectroanalysis, preliminary contact-spark transport, cast iron, Al-
Cu-A- alloy sample

ABSTRACT: The potentialities of the contact-spark sampling technique in spectro-
scopic analysis of metals and alloys were evaluated. Contact-spark transport of
cast iron and Al-Cu-A- alloy samples onto copper counterelectrodes enhances the sensi-
tivity of analysis. Another method of increasing sensitivity consists in precoating
the sample with a catalyst; this is effective where preliminary deposition of Cd on
titanium alloys is concerned. Analysis is usually effected without presparking of
the transferred sample. Further improvement of the spark sampling procedure consists
in the use of single pulse discharges. The diagram of a spark sampling circuit is
shown. There are 3 diagrams.
Card 1/2

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