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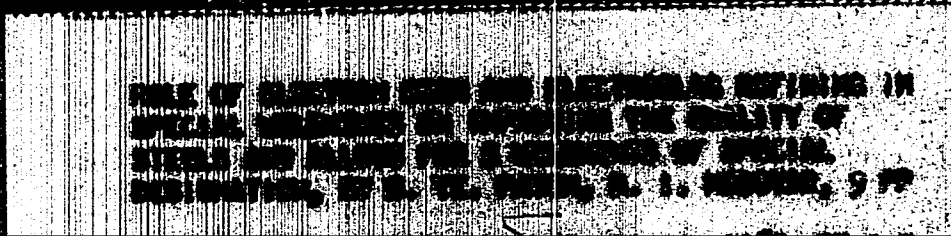
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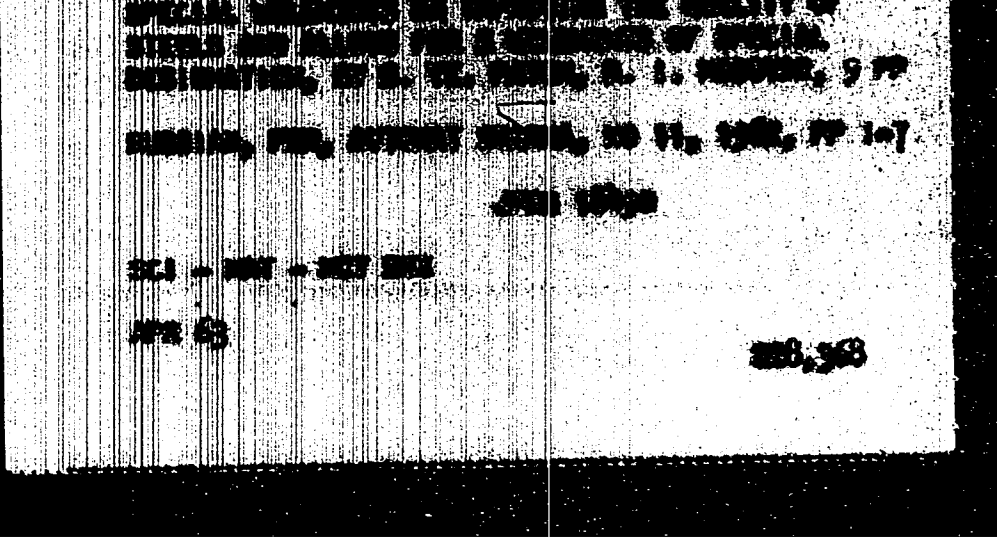
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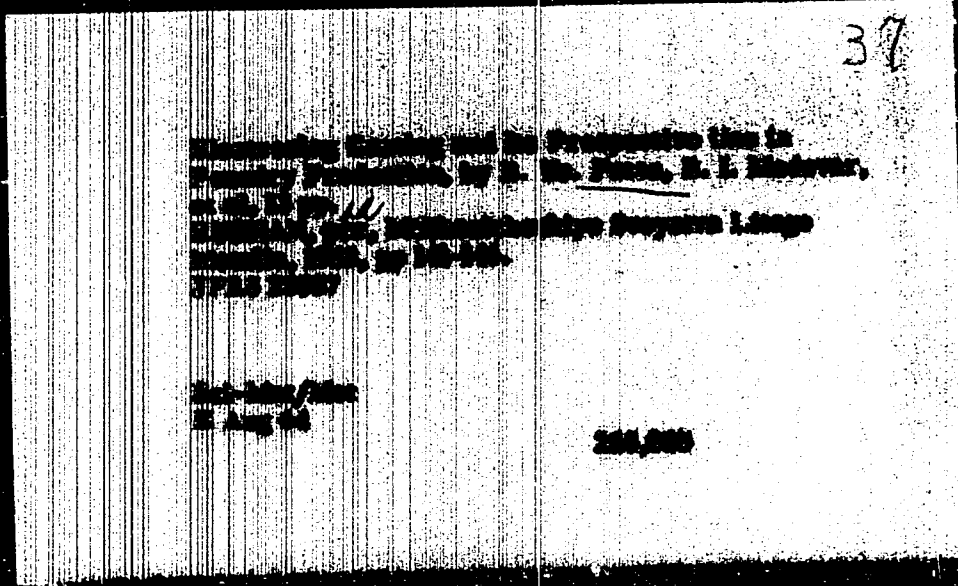
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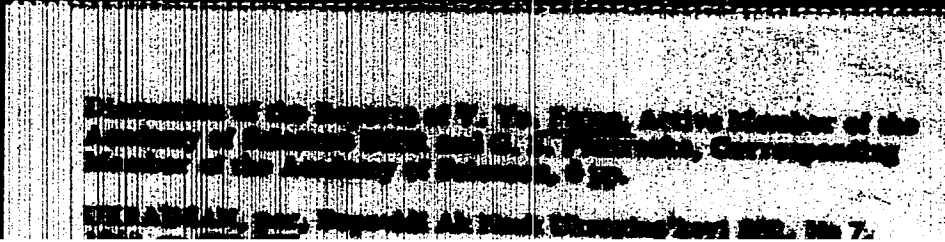
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SUBJECT: [Illegible]

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ters, characterizing the elastic elongations of poly-
meric molecules was stated. The method of resin test-
ing by stretching can be utilized not only for a study on
resin structure, but also for the study of elastic
elongations in polymeric molecules. (Author)

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DESCRIPTORS: *Titration, *Iron, *Aluminum,
*Titanium, Determination, Colorimetric analysis,
Chemical analysis.

Iron, aluminum and titanium can be determined chela-
tometrically by back-titration of excess complexon in
neutral medium with copper salt against pyrocatechol
violet. After titration of iron against sulfosalicylic acid
and colorimetric determination of titanium, the alumi-
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12 refs.

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DESCRIPTORS: *Ferromagnetic materials, Powders, *Magnetic recording systems, Theory.

Examination of forces acting on particle of ferromagnetic powder, by means of which the magnetic recording is visualized. There are also evaluated the technological problems and materials for recording images and obtaining impressions on paper. (Author)

(Engineering--Electronic, TT, v. 8, no. 9)

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SELECTION OF OPTIMUM ELECTRICAL CONDI-
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Kleova. 27 July 61, 13p. 14 refs. TVA-3930.
Order from OTS or SLA \$1.60 62-24459

Trans. of Ural [skii] Nauch[no]-Issledovatel'[skii]
Khim[icheski] Institut. Trudy (USSR) 1957, v. 5,
p. 252-262.

DESCRIPTORS: Electric furnaces, *Phosphorus, Ores,
Reduction, *Rotary furnaces, Coke, Carbon, *Voltage,
Particles, Gases, Purification, *Electric filters.

The best indices relating to reduction of ore, specific
energy consumption, and capacity coefficient are found
in stationary furnaces in which the criterion of the elec-
tric field EP is 6.7 to 9.4, and the geometric pa-
rameter is B:D 2.5-2.8. The single rotary phosphorus
(Engineering--Chemical, TT, v. 8, no. 12) (over)

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II. TVA-3930
III. Tennessee Valley Authority,
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CHANGE OF CHARACTER IN THE MELTING PROCESS IN
THE PHOSPHORUS FURNACE, tr. by Bertha P. Klezva.
19 July 61, 9p. 26 refs. TVA-3929.
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- III. TVA-3929
- IV. Teodorov V. Day
Ludzhana,
Bulgaria

Transl. of Ural'skii Nauchno-Issledovatel'skii
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p. 236-239).

DESCRIPTORS: *Phosphorus, Reduction, Melting,
*Furnaces, Slags.

Conclusions regarding the principal reactions which
take place in a plant furnace were derived from labora-
tory experiments, observations of plant-furnace
operation, and data in the literature. The reduction of
phosphates begins in the solid phase in the middle zones
of the furnace at about 1000° C. The process goes over
(Engineering--Chemical, IT, v. 9, no. 2) (over)

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