

MIKHAYLOV, N.I.; GNATYSHENKO, G.I.; KIM, G.V.

Review of M.A. Abdëev's book "Complex metal mattes and their conversion."
TSvet. met. 36 no.12:83-86 D '63. (MIRA 17:2)

TEMKINA, Berta Yakovlevna; MEL'NIKOVA, Marina Mikhaylovna;
MIKHAYLOV, Nikolay Ivanovich; ZHUKOVA, V.I., red.

[Production and use of electroplates from rare metals and
their alloys] Poluchenie i primenenie gal'vanicheskikh
pokrytii redkimi metallami i ikh splavami. Leningrad, 1964.
27 p. (MIRA 18:3)

MIKHAYLOV, N.I.; KUDRYAVTSEV, N.T.

Effect of the additions of foreign cations on the formation
of metallic sponges. Zhur. prikl. khim. 37 no. 4:806-812
Ap '64. (MIRA 17:5)

MIKHAYLOV, N.I.; KUDRYAVTSEV, N.T.

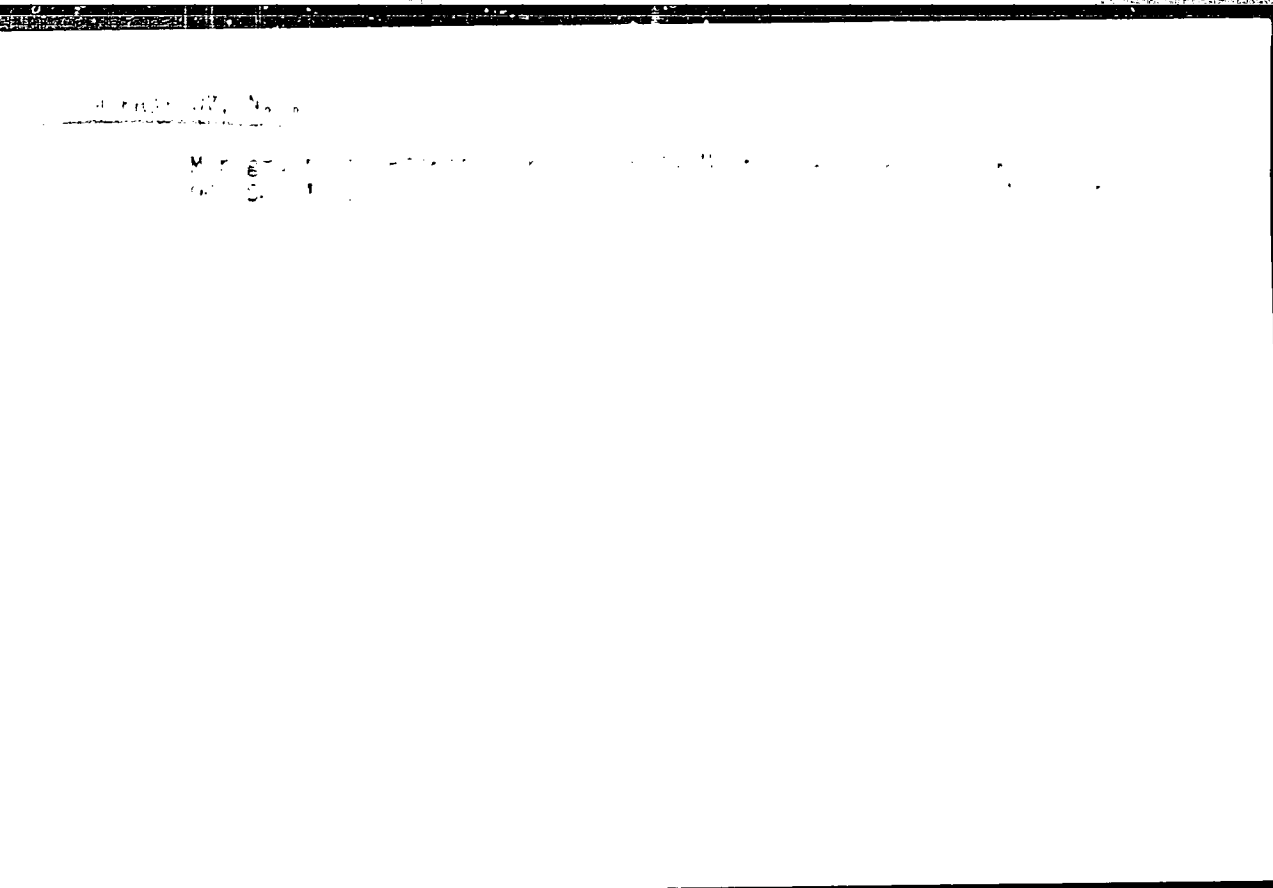
Electrodes for determining the limiting current in the
electrodeposition of iron. Zhur. prikl. khim. 37 no.12:
2615-2619 D '64. (MIRA 18:3

MIKHAYLOV, N.I.

The Second Conference of the Young Scientists of Armenia
and the Far East. (Armenian). No. 1. 1964. 10 p.
42-98 My-3-1964. (MIR) 1964

GVOZDETSKIY, Nikolay Andreyevich; MIKHAYLOV, Nikolay Ivanovich;
GALITSKAYA, T.M., red.; KONOVALYUK, I.K., mlad. red.;
KOSHELEVA, S.M., tekhn. red.

[Physical geography of the U.S.S.R.: Asiatic part] Fizi-
cheskaia geografiia SSSR: Aziatskaia chast'. Moskva,
Geografiz, 1963. 571 p. (MIRA 17:2)



MIKHAYLOV, N.M.

Effect of certain pyrimidine derivatives on the survival of animals
under closed conditions. Farm.i toks. 24 no.2:203-204 Mr-Apr '61.

(MIRA 14:6)

1. Kafedra farmakologii, farmatsii i farmakognozii (zav. - prof.
N.V.Lazarev) Voenno-meditsinskoy akademii imeni S.M.Kirova.
(ANOXEMIA) (PYRIMIDINES)

MIKHAYLOV, N.M.

Results of the petroleum industry of the U.S.S.R. in supplying
the national economy with petroleum and petroleum products
during 1956 and goals for 1957. Neft.khoz. 35 no.1:18-24 Ja '57.
(MLRA 10:2)

(Petroleum industry)

MIKHAYLOV, N.M.

Supplying the national economy with petroleum and petroleum products
in 1959. Neft. khoz. 37 no.1:12-18 Ja '59. (MIRA 12:3)

1. Gosplan SSSR.
(Petroleum--Transportation)

SHEVELEV, F.A., doktor tekhn.nauk; GORIN, G.S., inzh.; MINTS, D.M., prof., doktor tekhn.nauk; SUKHIASHVILI, N.K., kand.tekhn.nauk; MIKHAYLOV, N.M., inzh.; NINEMYAGI, D.K., red.izd-va; TEMKINA, Ye.L., tekhn. red.

[Fourth International Water Supply Congress] IV Mezhdunarodnyi kongress po vodosnabzheniiu. Pod red. F.A.Sheveleva. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 111 p. (MIRA 13:9)

1. International Water Supply Congress. 4th. Brussels, 1958.
2. Deyatvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Shevelev).
(Water-supply engineering--Congresses)

KALININ, Vladimir Konstantinovich, inzh.; MIKHAYLOV, Nikolay Mikhaylovich,
doks., kand.tekhn.nauk; SOKOLOV, L.S., inzh.red.; VERINA, G.P.,
tekhn.red.

[Electric railroad rolling stock] Elektropodviznoi sostav zheleznykh
dorog. Moskva, Gos.transp.zhel-dor. izd-vo, 1957. 723 p. (MIRA 11:2)
(Electric railroads--Rolling stock)

MIKHAYLOV, N.M., dots., kand. tekhn. nauk; SHLYAKHTO, P.N., dots., kand.
tekhn. nauk.

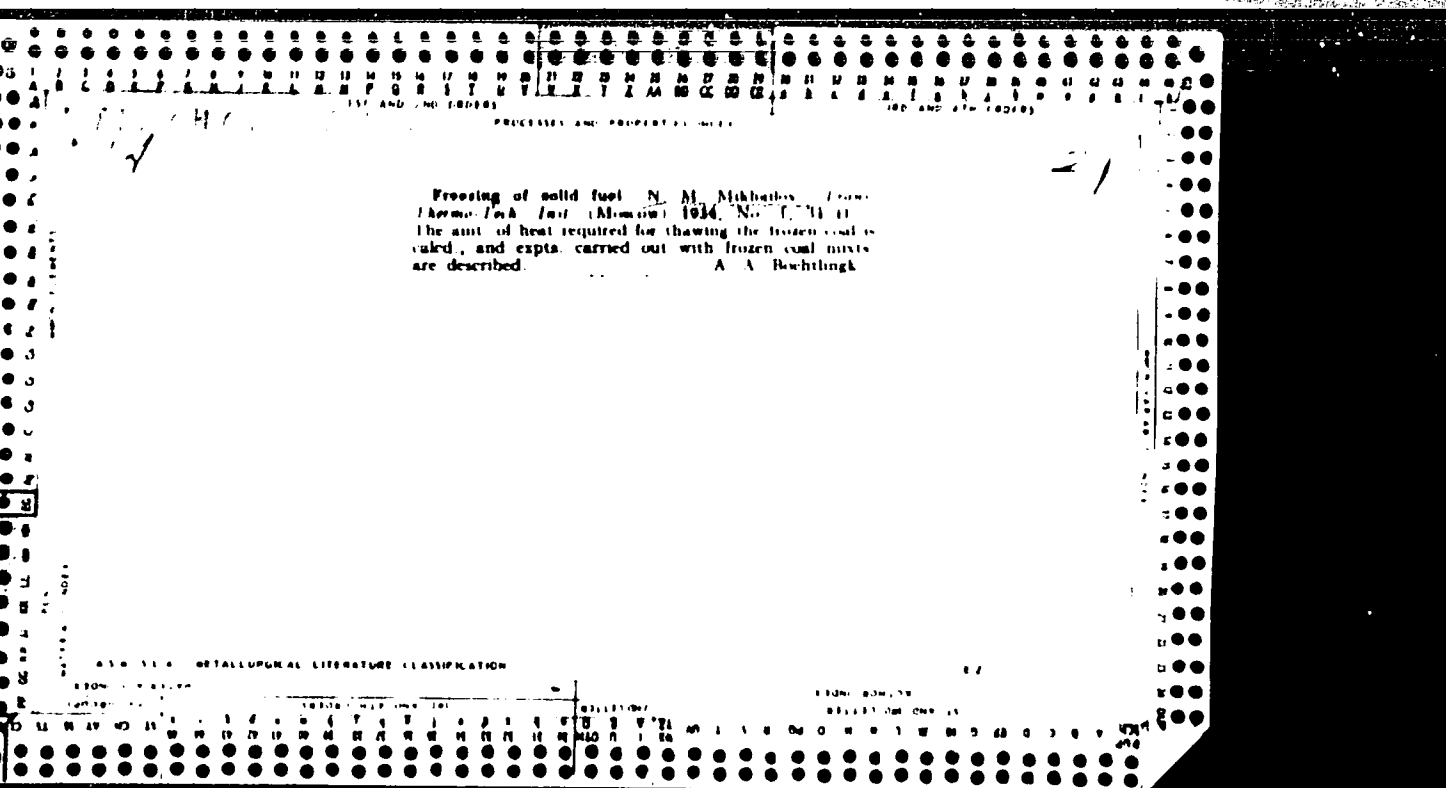
Using the basic statements of the theory of similitude of mechanical systems to model dynamic processes in locomotives. Trudy MIIT no.96:41-57 '57. (MIRA 11:1)
(Locomotives) (Dimensional analysis)

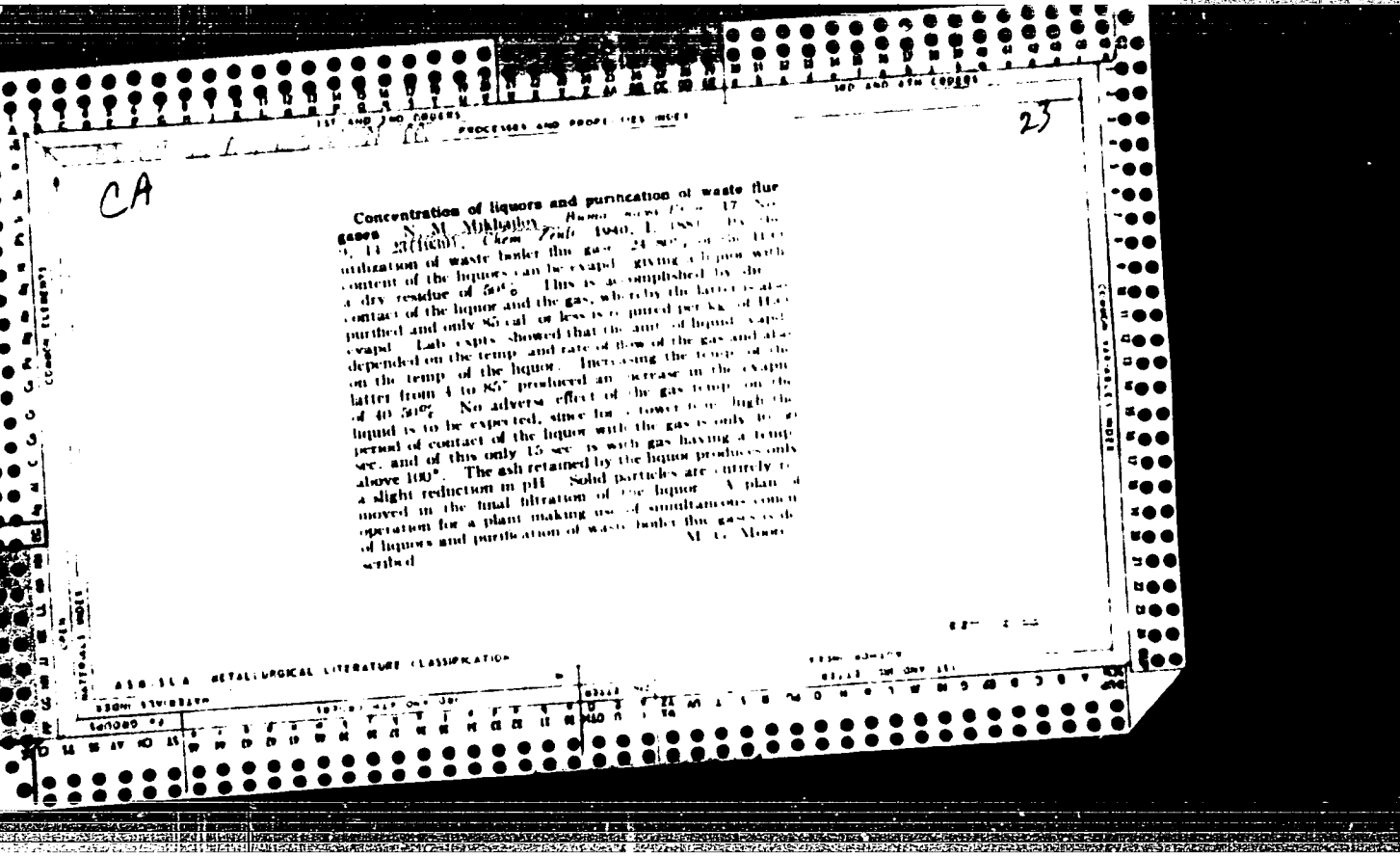
MIKHAYLOV, N.M., kand.tekhn.nauk, dotsent

Road testing of the leading and power trucks of the ER1 electric train.

Trudy MIIT no. 121:72-78 '60. (MIRA 14:4)

(Railroad motorcars--Testing)





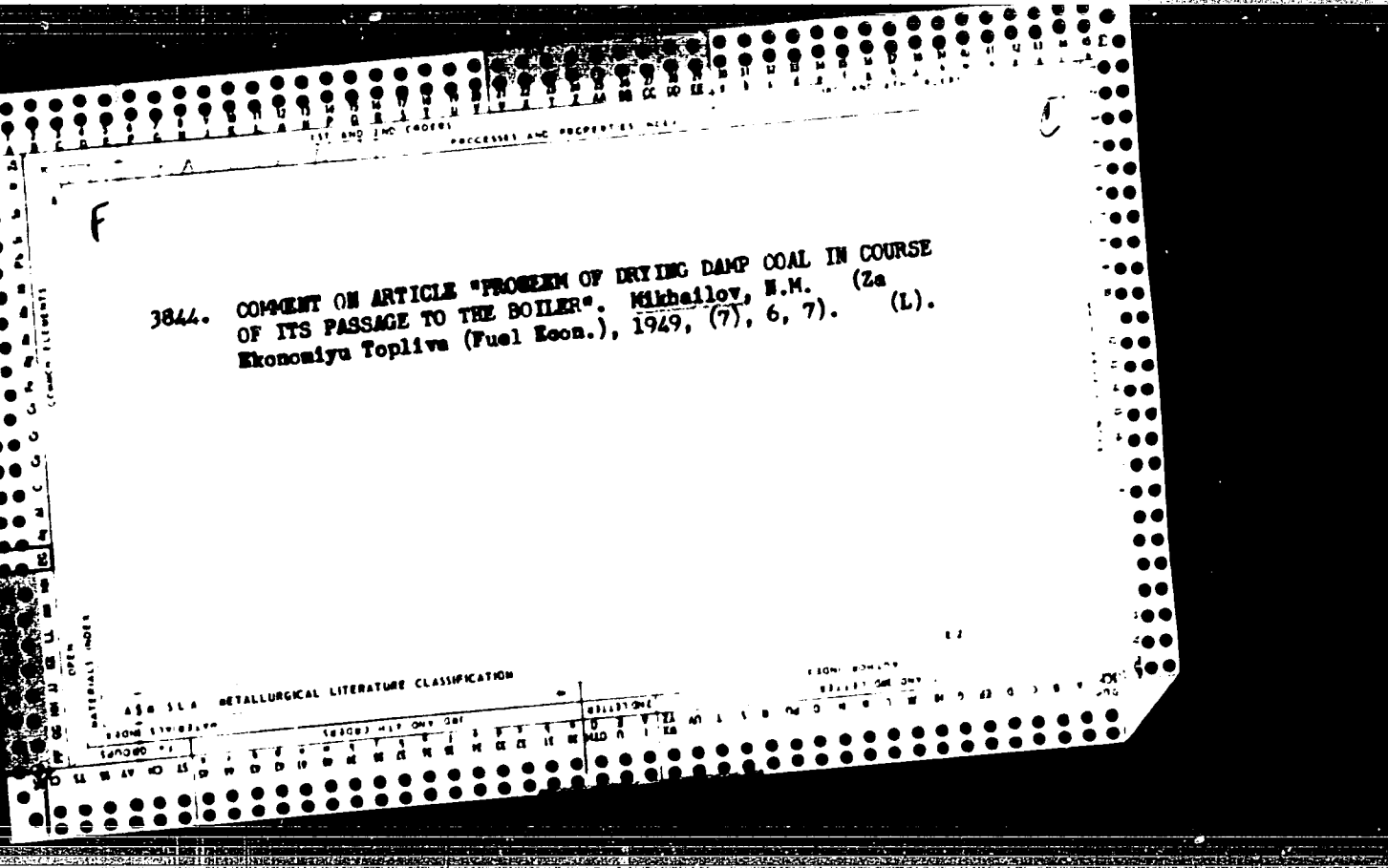
МЕТАЛЛОВ, А. М., Т. М. ВРАГОВА, and А. И. СМЕТНИН.

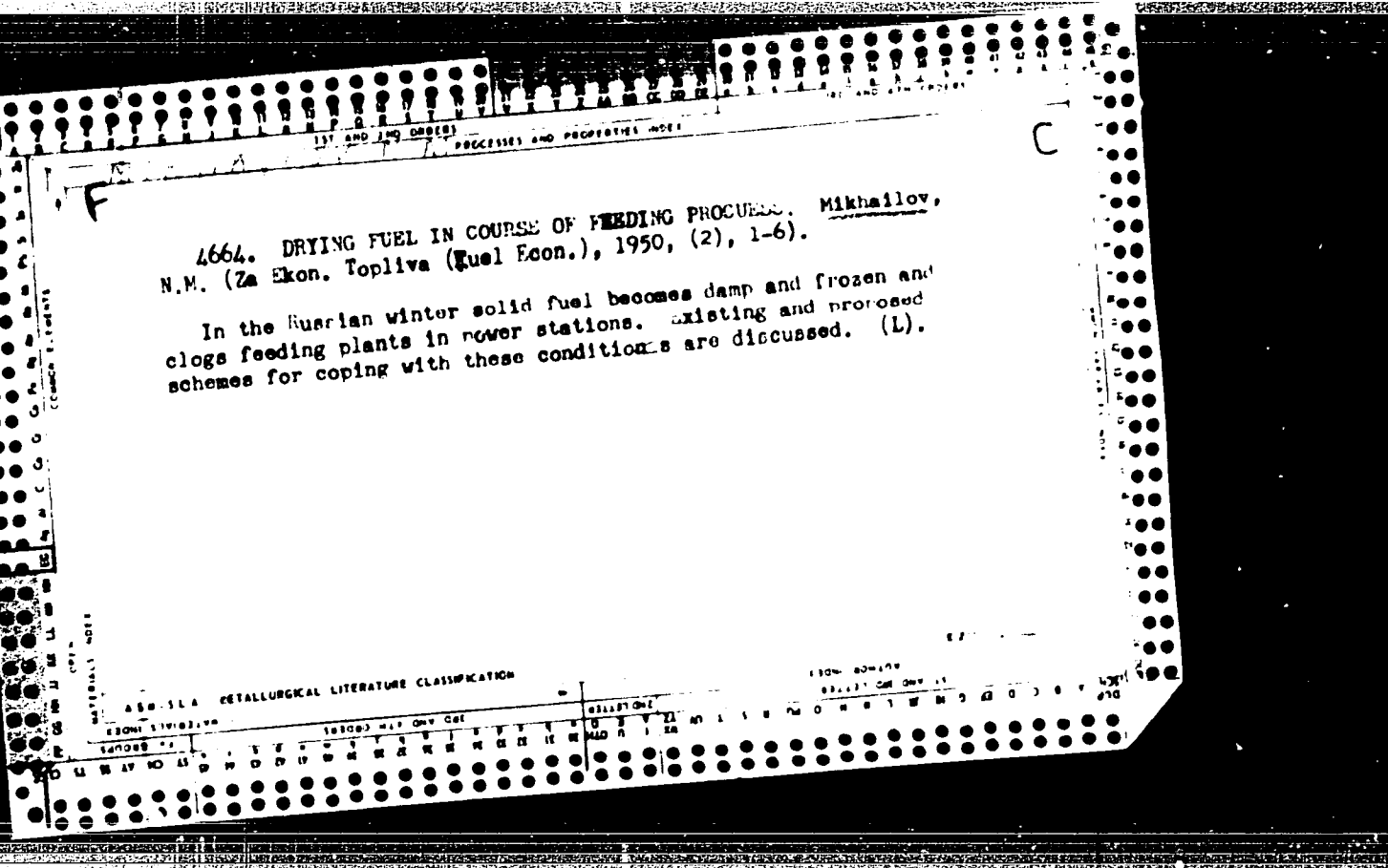
Proizvodstvo liteinykh kontsentratoov iz sul'fitnosul'fitovoi bary. Moskva, Gos.
lesotekhn. izd-vo, 1947. 134 p. diagrs.

(Production of foundry concentrates from soluble liquor.)

DIC: TS1126.V7

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.





107, N. M.

mining difficulties caused by moist or frozen fuel received at electric power
Moskva, Gos. energ. izd-vo, 1951. 203. p. (S2-L0224)

45

ALL INFORMATION CONTAINED

C

NEW DRYER FOR PREDRYING FUEL. Mikhailov, N.M. and Fedorov, I.M. (Za Ekon. Toplivo (Fuel Econ.), Aug. 1951, 9-13). The advantages and disadvantages of steam tube dryers, drum gas dryers and pneumatic dryers for reducing the moisture in brown coal from 50 to 55% to 15 to 20% before pulverization are reviewed. An improved type of pneumatic dryer is described. (L)

CHUDYCHUK, V. A.; MIKHAYLOV, N. M.; FEDOROV, I. M.; KURANOV, A. N.

Coop

A practical method of drying fuel., Izv. VTI., 21, No. 1, 1961.

Monthly List of Russian Accessions, Library of Congress, April 1962. UNCLASSIFIED.

MIKHAYLOV, N. M.

Dissertation: --"The Theory and Calculation of Heat of Cylindrical Dryers." Cand
Tech Sci, Moscow Inst of Power Engineering, Moscow 1953.

W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (~~XXXXXXXX~~)

MIKHAYLOV, N.M. kand.tekhn. nauk

"Drying of refractories" by A.A. Shumilin. Reviewed by N.H.
Mikhailov. Ogneupery 18 no.7:332-335 J1 '53. (MIRA 11:10)
(Refractory materials) (Drying apparatus)

FEDOROV, Igor' Mikhaylovich; MIKHAYLOV, N.M., redaktor; VERBA, M.I., redaktor;
SKVORTSOV, I.M., ~~tehnicheskii redaktor.~~

[Theory and calculation of the drying process in suspension] Teoriia i
raschet protsessa sushki vo vzveshennom sostoianii. Pod red. N.M. Mi-
khailova. Moskva, Gos. energeticheskoe izd-vo, 1955. 175 p.
(Drying apparatus) (MLRA 8:4)

HAYLOV, N. M., Dr. Tech. Sci.

"Herabsetzung der Verluste bei der Brennstofftrocknung mit Dampfrohrtrockenanlagen
offenen Prozess," List of General Reports and Papers presented at the Fifth World
er Conference, Vienna, 10 January 1956, pg. 28.

298

KHAYLOV, N. M. Dr. Tech. Sci.

"Reduction of Losses in an Open System Pulverized Coal Dressing Plant with Tubular Steam Dryers," paper presented at the 5th World Power Conference, Vienna, 1956.

In Branch #5

EKHAYLOV, N. M.

"Significance, Economics and Prospects of Developing the Petroleum Industry,
Petroleum Movement and Marketing Operations," page 5 of the book Petroleum Bases
and Pipe Lines, Gostoptekhizdat, 1956

M. K. Mikhaylov

MIKHAYLOV, Nikolay (Mikhaylovich); VERBA, M.I., red.; MEDVEDEV, L.Ye.,
~~tekhred.~~

[Problems in drying fuel at electric power plants] Voprosy sushki
topliva na elektrostantsiakh. Moskva, Gos.energ.izd-vo, 1957.
150 p. (MIRA 11:2)

(Fuel--Drying)

CHASHCHIN, Vasilii Timofeyevich; ~~MIKHAYLOV, M.M.~~ doktor tekhnicheskikh nauk, retsenzent; OKUN', M.M., redaktor; BLOZNOV, A.G., redaktor; MEDVEDEVA, L.Ya., tekhnicheskii redaktor.

[Testing and adjusting driers for primary processing of bast fiber]
Ispytaniia i naladka sushilok zavodov pervichnoi obrabotki lubianykh volokon. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promyshlennosti, 1957. 191 p. (MIRA 10:11)
(Drying apparatus) (Bast)

KHAYLOV, N.M.

530. IMPROVING POWER STATION ECONOMY BY FUEL DRYING. Mikhailov, M.I.
(Energoproektiz (Heat Pwr Engng, Moscow), Feb. 1957, 20-23). Results are
presented of an investigation into the drying of fuels of high water content
by using steam tube dryers, heated by steam extracted from the low pressure
stage of a turbine. An arrangement for fuel drying is described and its
effect on power station economy is discussed. It is found that the
efficiency of the fuel rises as the live steam parameters are increased.
Results for various turbines and fuels are given and a comparison with other
dryers is drawn. (L).

*Fuel
Dryer*

MIKHAYLOV, N.M., doktor tekhn.nauk.; VASIL'YEV, N.S., inzh.;
KASIMOV, V.I., inzh.

Separating coal fines before crushing. Energetik 5 no.9:6-8 S '57.
(Coal, Pulverized)

MIKHAYLOV, N.M., doktor tekhn.nauk

Increasing the dependability of fuel feeder operation. Elek.sta.
28 no.10:6-10 '57. (MIRA 10:11)
(Coal-handling machinery)

IKHAYLOV N.M.

124. SELECTION OF A RATIONAL DRYER FOR THOROUGH DRYING OF MILLED PEAT.
Gerpinich, I.P. and Mikhailov, N.M. (Forf. Prom. (Peat Ind., Moscow), 1957,
vol. 24, (5), 16-20). The performance of the Peco dryer is compared in
detail with that of a steam-heated tubular dryer, which is illustrated. The
latter is much preferred and can be further improved by recovering the heat
from the drying air. (L)

ПОЛИМАТЕРИАЛ

AUTHOR: Rodzhat, K. F., Cand. Tech.Sc. 96-4-20/24

TITLE: A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-houses. (Nauchno-tekhnicheskoye soveshchaniye po kotel'no-vyrosogatel'noma oborudovaniiyu elektrostantsii).

PERIODICAL: Energetik, No. 4, pp. 90-91 (USSR).

ABSTRACT: The annual conference on auxiliary equipment for power station boiler-houses was held in Moscow from the 17th - 19th December, 1987. It was convened by the Moscow Division of the USSR and the Ministry of Electric Power Stations. The object was to generalise operating experience of boiler-house auxiliary equipment for large power stations and to develop measures to improve the reliability and efficiency of the equipment; also to reduce house-service power consumption, to familiarise the conference participants with new designs of Soviet and foreign auxiliary equipment, and to formulate proposals for the development of new types of equipment. The Conference was attended by 350 representatives of State Planning Organizations of various republics, councils of national economy, power stations, engineering centres, research and design institutes, colleges and other

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A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-houses.

organizations. Nineteen reports were read.

The Chief of the Technical Directorate of the Ministry of Power Stations A. M. Nekrasov, gave an opening address on the future development of thermal power stations, on the growth of unit outputs of sets, and on auxiliary equipment in boiler-houses.

Cond.Tech.Sc. N. F. Roshchin reported on the development of boiler-houses and reviewed the present state of production of boiler-house auxiliary equipment, criticizing its efficiency.

Engineers G. N. Vlasov and A. N. Kabanov reported on methods of reducing boiler-house power consumption. It was pointed out that a number of works, including the Vengubovskiy Works still did not always produce reliable equipment.

There were reports on the operation and design of fuel- and ash-handling systems. Dr.Tech.Sc. A. S. Mikhaylov described new types of equipment, particularly wagon tipplers. Eng. I. A. Kuznetsov indicated the desirable features of ash-handling equipment for large power stations.

Card 2/4 Engineer N. I. Spiridonov outlined the mechanization of

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fuel-handling and ash-removal medium-sized power stations. Reports by Cand.Tech.Sc. M. L. Kisel'gof and P. I. Kiselev, by Engineers Yu. G. Lazarev, I. M. Dianov, B. I. Marovkin and Cand.Tech.Sc. V. V. Makrinov all examined questions of fuel preparation.

Reports by Engineer V. V. Ryzhova and Cand.Tech.Sc. L.A. Rikhter considered the resistance of gas and air ducts in boiler installations and methods of regulating the output of draft fans.

Cand.Tech.Sc. V.B. Pakshver, reported foreign information on drives for feed pumps in large power stations.

The last group of reports dealt with fittings and with the removal of deposits from heating surfaces by devices operated from outside the furnace. The report of

Engineer M. I. Imbritskiy and Cand.Tech.Sc. A. V. Ratner discussed damage to fittings and ways of enhancing their reliability by improved design. Reports on removal of ash and slag deposits were made by Engineers B. S. Fomin, V. I. Poluboyarinov and G. I. Lushnov.

Card 3/4 The discussion of the reports showed that the manufacturing

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A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-houses.

works are still not paying sufficient attention to auxiliary equipment. Most of the representatives of power stations mentioned defects therein. The Conference formally noted successes in the development of auxiliary equipment and a number of defects that require correction. Mention was made of the high cost of some kinds of equipment and the absence of catalogue. It was considered that many other directions should have been represented at the Conference.

AVAILABLE: Library of Congress.

Card 4/4

MIKHAYLOV, N.M., doktor tekhn. nauk

Using dumping gears for railroad freight cars on electric power
plants. Elek.sta. 29 no.9:29-32 S '58. (MIRA 11:11)
(Electric power plants) (Railroads--Freight cars)

MIKHAYLOV, N.M., doktor tekhn.nauk

Moisture content of peat fuel for electric power stations.

Torf. prom. 35 no.3:17-19 '58.

(MIRA 11:5)

1.Vsesoyuznyy teplotekhnicheskiiy institut im. F. Dzerzhinskogo.
(Peat)

MIKHAYLOV, N.M.; LYKOV, M.V.; SHCHEGLOV, V.F.; KUROCHKIN, Yu.P.

Letter to the editor. Inzh.-fiz. zhur. no.3:159-161 Nr '60.
(MIRA 13:10)

1. Vsesoyuznyy teplotekhnicheskii institut im. F.Dzerzhinskogo,
Moskva.

(Drying apparatus)

KUROCHKIN, Yu.P., kand.tekhn.nauk; MIKHAYLOV, N.M., doktor tekhn.nauk;
LITVIN, G.Ye., inzh.

Use of contact heat exchange for the cooling of quartz sand
after drying. Lit. proizv. no. 12:28-30 D '60.

(MIRA 13:12)

(Sand, Foundry--Cooling)

MIKHAYLOV, N.M., doktor tekhn.nauk; KISELEV, P.I., kand.tekhn.nauk

The new large electric power plants should be equipped with
modernized fuel pulverizing systems. Elek.sta.33 no.1:6-9 Ja '62.
(MIRA 15:3)
(Electric power plants—Equipment and supplies)

LEBEDEV, Panteleymon Dmitriyevich; MIKHAYLOV, N.M., prof., retsenent;
GINZBURG, A.S., prof., retsenent; LIKOV, M.V., dots.,
nauchnyy red.; LEONCHIK, B.I., dots., nauchnyy red.; LARIONOV,
G.Ye., tekhn. red.

[Calculation and design of drying systems] Raschet i proektiro-
vanie sushil'nykh ustanovok. Moskva, Gosenergoizdat, 1963. 319 p.
(MIRA 16:3)

(Power engineering) (Drying)

MIKHAYLOV, N.M., doktor tekhn.nauk; BAL'SON, V.A., inzh. [deceased]

Hygroscopic properties of coals. Teploenergetika 11 no.2:61-64
F '64. (MIRA 17:4)

1. Vsesoyuznyy teplotekhnicheskii institut.

1. MIKHAYLOV, N. N.
2. USSR (COC)
3. Insemination, Artificial
7. Diluting live-stock semen with milk, *Sots. Zhiv.*, 15, no. 4, 1953.

Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

USSR/Farm Animals. General Problems. Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16726.

Author : Mikhaylov N.N.

Inst :

Title : The Milky Diluents of the Semen of the Farm Animals/
Answers to Questions Put by Readers of the Journal
"Animal Husbandry"/
(Molochnyye razbaviteli semeni sel'skokhozyayst-
vennykh zhitovnykh / Otvety na zaprosy chitateley zhurnala
"Zhitovnovodstvo" /)

Orig Pub: Zhitovnovodstvo, 1957, No 6, 85.

Abstract: No abstract.

Card : 1/1

MIKHAYLOV, N.N. (Moskva); NOVOSEL'TSEVA, Zh.A. (Moskva)

Optimal transient processes in a system with prediction. Izv
AN SSSR Tekh. kib. no.14187-195 Ja-F '64 (MIRA 17:8)

USSR/Journal of Animal Physiology: Respiration.

Sov. Jour. Ref. Anim-Biol., No. 20, 1958, 93294.

Author : Sergiyevskiy, M.V., Lukhbaylov, A.M., Kozlovskaya, V.P.

Institution : U.S.S.R.

Title : Characteristics of Respiration Reaction to Increased Amount of Carbon Dioxide in Inhalation of Air in Dogs and Rabbits, Normal and Deprived of Distance Receptors.

Orig. Pub: V. sb.: Probl. fiziol. tsentr. nervn. sistemy. M.-L., U.S.S.S.R., 1957, 500-508.

Abstract: Experiments on normal dogs and rabbits and on dogs and rabbits which had been deprived of three pairs of distance receptors (eyes, ears, nose) revealed a decrease in motor activity, a retardation of respiration, and a lowering of sensitivity to CO₂, and also a displacement

Card : 1/2

DEMENTSKAYA, R.M.; MIKHAYLOV, N.N.

Results of geophysical prospecting in the northern part of
central Siberia. Trudy NIIGA 92:95-107 '58.

(MIRA 13:4)

(Siberia--Prospecting--Geophysical methods)

MIKHAYLOV, N.N., kand.biologicheskikh nauk

Blood supply of generative organs in swine. Veterinariia 39
no.1:61-62 Ja '63. (MIRA 16:6)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(Generative organs, Female--Blood supply)
(Swine--Anatomy)

NAKHMANSO, V.M.; OSIDZE, D.F.; SEROV, M.F.; ALEKSANDROVA, V.T.;
SOLOV'YEV, S.; MALYSHEV, V.; IVANENKO, N.M.; POTATURKIN, V.;
CHIZHOV, A.I.; MIKHAYLOV, N.N.

In the Soviet Union. Veterinariia 39 no.1:88-96 Ja '63.
(MIRA 16:6)
(Veterinary medicine)

MIKHAYLOV, N.N.

Compilation of structural diagrams on the basis of materials from regional aeromagnetic observations. Sov. geol. 3 no.4;85-91 Ap '60.
(MIRA 13:11)

1. Nauchno-issledovatel'skiy institut geologii Arktiki.
(Geology, Structural--Graphic methods)

ACC NR: AP7001546

SOURCE CODE: UR/0020/66/171/003/0566/0569

AUTHOR: Alekseyevskiy, N. Ye. (Corresponding member AN SSSR); Dubrovin, A. V.; Mikhaylov, N. N.; Sokolov, V. I.; Fedotov, L. N.

ORG: Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardin (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: Basic properties of 65BT-type superconducting alloy wire in specimens and solenoids

SOURCE: AN SSSR. Doklady, v. 171, no. 3, 1966, 566-569

TOPIC TAGS: superconducting alloy, niobium titanium alloy, zirconium containing alloy, niobium titanium alloy wire, alloy wire superconducting property

ABSTRACT:

A method of protecting superconductors from damage during the transition from superconducting to normal state has been developed. The 65BT superconducting niobium-titanium alloy wire (65% niobium and some zirconium) was developed by the Institute of Precision Alloys at the Central Scientific Research Institute of Ferrous Metallurgy. At 293, 77 and 20K the wire has a tensile strength of 81, 140 and 192 kg/mm², a notch toughness of 18.5, 5.8 and 4.4 kg/cm², and a resistivity of 70, 59 and 56·10⁻⁶ ohm·cm, respectively. The critical temperature of the wire is 9.7K and the critical magnetic field at 4.2K is 90 kilo-oersteds. It was found that a thin copper coating effectively

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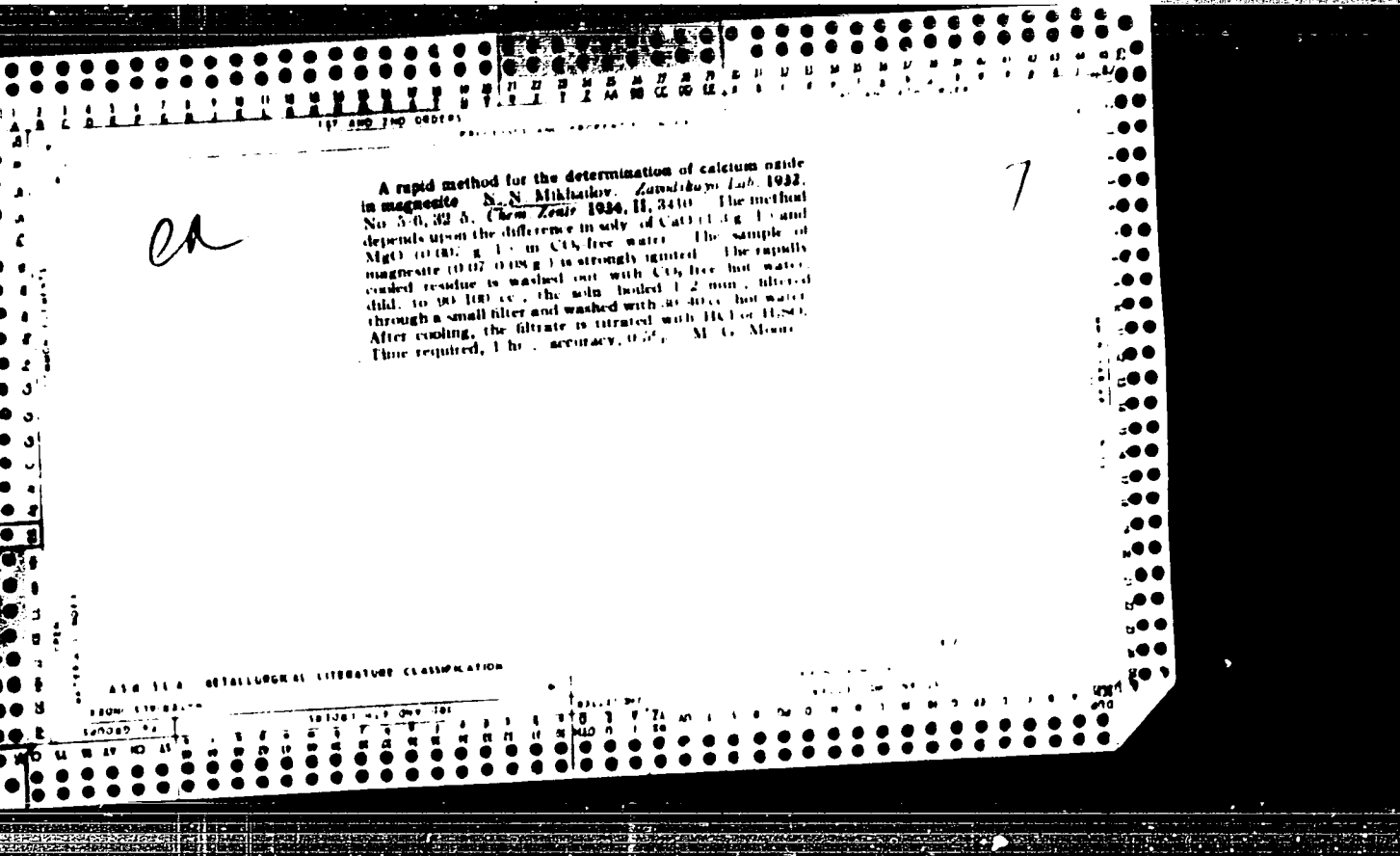
UDC: 537.312.62.

ACC NR: AP7001546

prevents wire damage during the transition from the superconducting to the normal state. Wire 0.25 mm in diameter was coated with a layer of copper, 10-20 μ thick, and used for solenoids with field intensities of 19 and 54 kilo-oersteds. The solenoids withstood long periods of operation and proved to be stable and reliable. They were used in studying galvanomagnetic properties of pure metals in semiconductors, in investigating the critical parameters of superconducting materials, etc. Orig. art. has: 4 figures and 2 tables.

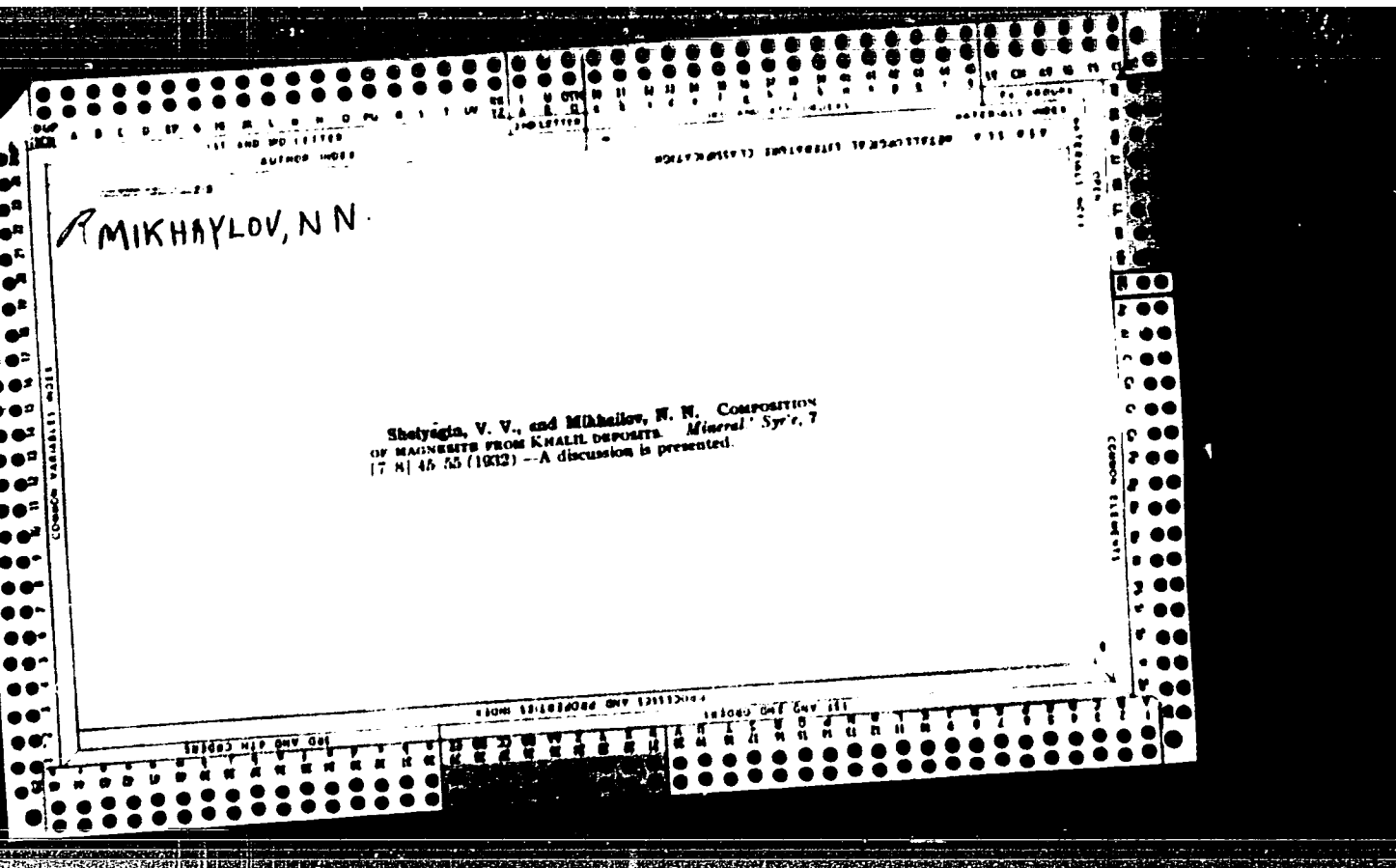
SUB CODE: 11, 09, 20/ SUBM DATE: 30Jul66/ ORIG REF: 001/ OTH REF: 003
DTP PRESS: 5111

ard 2/2



A rapid method for the determination of calcium oxide in magnesite. S. N. Mikhlikov. *Zavodskaya Lab.* 1932. No. 5-6, 325. *Chem. Zvests* 1934, II, 3410. The method depends upon the difference in solubility of CaO (1 g/l) and MgO (0.001 g/l) in CO₂-free water. The sample of magnesite (0.02-0.05 g) is strongly ignited. The rapidly cooled residue is washed out with CO₂-free hot water, dried, to 100°C, the solid boiled 1-2 min., filtered through a small filter and washed with 20 ml of H₂O. After cooling, the filtrate is titrated with 10% H₂SO₄. Time required, 1 hr. Accuracy, 0.5%. M. G. Mironov.

METALLURGICAL LITERATURE CLASSIFICATION



MIKHAYLOV, NN

Influence of the fineness of grind on the quality of mag-
nesia cement. N. N. Mikhailov. *Soviet Material*
1934, No. 10, 40-54. A better quality of binding materials
made with caustic magnesite is obtained by finer grinding
of the latter, coarser grains possessing a smaller activity
when used as a binding matter. E. E. Stefanovsky

A.C.S.

Geology

Elasticity of clay paste. V. V. GONCHAROV AND N. N. MISHAYLOV. *Compt. Rend. Acad. Sci. U.R.S.S.*, 26 [11] 24-27 (1961); abstracted in *Physic. Rev.*, 31 [22] 2182 (1960).—The behavior of plastic clay was investigated under 20 to 30 load changes per sec. The ratio of tensile to compressive deflection, E' , was designated as the dynamic elasticity modulus. The lag between tensile and compressive load deflections (σ_t and σ_c respectively) is represented by the hysteresis loop, $\sin \theta = F/\pi \times ab$, where a and b = length and width of the loop parallel to the axes and F = the planimetrically determined area of the loop. The energy produced in one load cycle and transformed into heat is $\pi \sigma_c \sin \theta$. Plastic clays possess elastic hysteresis; elasticity limit and elasticity modulus and deformation resistance increase and degree of deformation and dampening increase with increasing humidity content. Clays of various origins showed very great differences in elastic properties for which the E' modulus can be considered characteristic. Plastic clays are anisotropic.

Urnic - Mineralog. Lab, Inst. Refractories, Leningrad

MIKHAYLOV, N. N.

"Carbonization of Magnesia Binders as a New Method for Obtaining Construction Materials." Sub 28 Oct 47, Central Sci Res Inst of Industrial Structures (TsNIPS)

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum.No. 457, 18 Apr 55

117 AND 118 INDEXES
120 AND 121 INDEXES
122 AND 123 INDEXES
124 AND 125 INDEXES

19

Comparative evaluation of the binding properties of caustic magnesite and caustic dolomite. A. M. Kozlov and N. N. Mikhalev, *J. Applied Chem. (U.S.S.R.)* 20, 287-88 (1947) (in Russian).—In tests of masses made of fired magnesite or fired dolomite and MgO, the former showed a tensile strength (σ) approx. 1.5–2.0 times higher than the latter, i.e., the ratio is lower than that expected from the ratio of MgO content (3–3.5); that this is not due to differences in the proportions MgO/CaO was shown by expts. in which the amt. of MgO added was varied. Rather, the difference of the binding properties of MgO in both cases is due to the lower temp. (660–700°) at which dolomite is fired to avoid decomposition of CaCO₃; low-fired MgO is relatively more active as binding agent. This was demonstrated on masses made by mixing magnesites fired to a d. 3.20, 3.37, and 3.00, with 8 parts finely ground CaCO₃ (800 mesh/sq. cm.); only the mass with magnesite of d. 3.00 had a high σ (13.9 and 17.4 kg./sq. cm. after 1 and 7 days), despite a relatively lower content of total MgO. High firing, which is usual in the production of caustic magnesite, favors formation of particles and lowers the activity of MgO; this is paralleled by the known fall of water-solub., the heat of hydration, and the rate of hydration of MgO heated at over 700–800° (Dudnikov (C.A. 24, 4081)). Likewise, prolonged heating of magnesite, even at temps. as low as 600°, results in lowered activity of MgO: after 1 and 6 hrs., d. = 3.13 and 3.46; σ after 1 day, 30.9 and 16.3; after 28 days, 24.9 and 23.1. Dolomite, normally fired at 700° and fired again at 850° for 3, 4, and 6 hrs., also suffered some loss of σ (after 3 days, 9.2, 7.4, and 6.8 kg./sq. cm., against initial 21.7). Presence of CaO in caustic dolomite is not in itself harmful but it does indicate too high or too long firing, i.e., loss of binding activity of the MgO; as an empirical index, 1.5–1.7% CaO can be taken to indicate correct firing conditions of the dolomite; over 5% CaO definitely indicates overfiring and poor binding qualities. N. Then

ASS. 11.6 METALLURGICAL LITERATURE CLASSIFICATION
12000 5710310
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CHAYLOV, N. P.

Cand. Tech. Sci.

Thesis: "Carbonization of magnesite binders as a new method for
obtaining structural materials." 2 Oct 79

Central Sci Res Inst. of Industrial Structures.

**SO Vecheryaya Moskva
Sum 71**

MIKHAYLOV, N.N., kand.tekhn.nauk; KUZNETSOV, A.M., kand.tekhn.nauk

Investigating the binding properties of waste materials obtained
in kilning magnesite. Stroi.mat. 6 no.2:31-33 P '60.
(MIRA 13:6)

(Magnesite) (Binding materials)

MIKHAYLOV, N.N., kand.tekhn.nauk; KUZNETSOV, A.M., kand.tekhn.nauk

Artificial carbonization as a means for increasing the activity of dolomite binders. Stroi. mat. 6 no.9:28-30 S '60.

(MIRA 13:9)

(Carbonization)

(Binding materials)

L 27246-65 EWT(d)/EWT(1)/EEC(k)-2/EWG(v)/EED-2/EMP(1) Pa-5/Pg-1/Pk-1/Po-1/
Pq-1 IJP(c) GO/BB/OW/OS
ACCESSION NR: AT5003918 S/0000/64/000/000/0216/0220

AUTHOR: Bashilov, I. P.; Kaz'min, A. I.; Mikhaylov, N. N.

56
43
15+

TITLE: Digital models for the processing of gravimetric information

SOURCE: Vsesoyuznaya konferentsiya - seminar po teorii i metodam matematicheskogo modelirovaniya. 3d, 1962. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); sbornik trudov konferentsii. Moscow, Izd-vo Nauka, 1964, 216-220

TOPIC TAGS: data processing, digital data processing, averaging, gravimetric data

ABSTRACT: Inasmuch as data from a gravimeter are usually received in the form of a continuous function that oscillates about a mean value, and inasmuch as the calculation of the mean value is a laborious process, prone to subjective errors and not suitable for analog computation, the authors describe an optical-electric analog to digital converter and the use of digital computers for this purpose. The converter is used in connection with an acceleration pickup developed at the aerogravimetric laboratory Institut fiziki Zemli (Institute of Earth Physics) AN SSSR by Yu. D. Bulanzhe et al. (described in the present source). The deflection of

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D 27246-65

ACCESSION NR: AT5003918

the light beam reflected from the pendulum mirror is transmitted by the optical system to a code mask based on the grey code. The optical-electric converter controls the operation of a flash lamp and transforms the light pulses at the input of the photo receiver into electrical voltage pulses, eliminates the noise and interference background, remembers the pulses in a trigger register in the form of Grey code, converts the Grey code into a binary code, and transmits the pulses to a digital computer. The output of the converter is a sequential 11-digit binary code. Two methods of processing such a code are considered: filtering with the aid of a time delay element and determination of the arithmetic mean. The equipment used for both variants is described in some detail. The digital filter, in turn, was constructed in both transistorized form and using cold-cathode thyratrons. In the latter case the output was not the mean value of the measured quantity, but a running total, which had to be divided by the total number of measurements to obtain the mean value. Some of the individual units of the equipment are briefly described. Orig. art. has: 5 figures and 2 formulas.

ASSOCIATION: None

SUBMITTED: 17Aug64

ENCL: 00

SUB CODE: DP

NR REF SOV: 001

OTHER: 000

and 2/2

ACC NR: AP6017986

(N)

SOURCE CODE: UR/0413/66/000/010/0086/0086

INVENTOR: Bashilov, I. P.; Bulanzhe, Yu. D.; Dubovik, A. G.; Yerofeyev, V. I.;
Kevlishvili, P. V.; Kobrin, L. V.; Kogan, B. Ya.; Kaz'min, A. I.; Popov, Ye. I.;
Mikhailov, M. N.; Churbakov, A. I.; Snileyko, A. V.

ORG: None

TITLE: An automatic device for determining acceleration due to gravity on a movable
base. Class 42, No. 181833 [announced by the Institute of Physics of the Earth
Imeni O. Yu. Schmidt, AN SSSR (Institut fiziki Zemli AN SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 10, 1966, 86

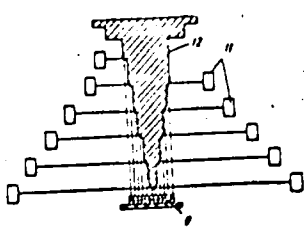
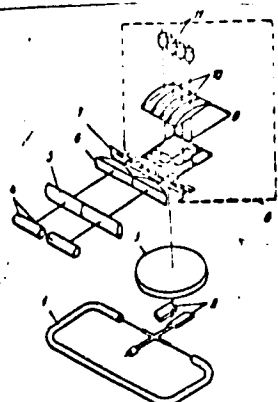
TOPIC TAGS: gravity, electron optics, electronic equipment, gravimeter

ABSTRACT: This Author's Certificate introduces an automatic device for determining
acceleration due to gravity on a movable base, using a strongly damped elastic gravi-
meter system. The installation contains a meter for acceleration due to gravity,
a system of mirrors, lens, light source, two condensers and a slotted prism. Ac-
curacy of measurement is improved, and processing of the resultant information is
automated by using an electron-optical converter which changes angles of turn of a
pendulum to digital code. This converter is made in the form of a code mask with
lenses attached. A prism is mounted behind the lenses with metallic mirrors and
photocells.

UDC: 531.768.08:528.026

Card 1/2

ACC NR: AP6017986



1—accelerometer; 2—system of mirrors; 3—objective lens; 4—light source; 5 and 6—
condensers; 7—slotted prism; 8—electron-optical converter; 9—code mask; 10—
lenses; 11—photocells; 12—prism with metallic mirrors

SUB CODE: 09, 08/ SUBM I. TE: 14May64

Card 2/2

L 1563-66 EWT(1)/EWT(m)/T/ENP(t)/ENP(b)/EWA(c) I:P(e) JD/JG

ACCESSION NR: AP5019215

UR/0056/65/049/001/0047/005314

AUTHOR: Belyayeva, A. I.; ^{44.55}Yeremenko, V. V.; ^{44.75}Mikhaylov, N. N.; ^{44.55}Petrov, S. V. ⁵⁹

TITLE: Light absorption spectra for Mn²⁺, Co²⁺, Ni²⁺, and Ho³⁺ ions in antiferromagnetic fluoride crystals ^{44.55 B}

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 47-53

TOPIC TAGS: ¹¹manganese alloy, ²¹holmium, transition element, light absorption, absorption spectrum, antiferromagnetic material ^{21, 44.55}

ABSTRACT: This is claimed to be the first attempt to alloy MnF₂ single crystals with holmium, and also to grow fluorides containing two different transition metal ions, Mn²⁺ and Co²⁺ or Mn²⁺ and Ni²⁺. The absorption spectra of these crystals were investigated from 4.2 to 100K, and their characteristics near the magnetic ordering temperature of the solvent crystal are discussed. The single crystals of the pure transition-metal fluorides were obtained by a procedure described elsewhere (Kristallografiya, in press). Some of the difficulties and special techniques involved in the growing of mixed single crystals are discussed. An analysis of the optical absorption spectra indicates that the added ions enter the MnF₂ lattice. The results also show that the antiferromagnetic transition of the solvent crystal is ac- ¹⁶

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ACCESSION NR: AP3019215

15


accompanied by an anomalous shift of the optical absorption bands of the added Mn^{2+} and Co^{2+} towards the shorter waves, together with a pronounced narrowing which is of the same order as for the band of pure MnF_2 and CoF_2 crystals. The absorption lines of Ho ions are not affected by the antiferromagnetic transition of MnF_2 . "We thank P. L. Kapitza for his interest, A. S. Borovik-Romanov for a discussion of the results, and V. A. Timofeyev for providing the $Ho_2Al_2O_7$ single crystals." Orig. rt has: 5 figures and 2 tables.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physical Problems, Academy of Sciences, USSR); Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk Ukrainsskoy SSR (Physicotechnical Institute of Low Temperatures, Academy of Sciences, UkrSSR)

REMITTED: 28Jan65
REF SOV: 015

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44.55

ENCL: 00 SUB CODE: 55
OTHER: 009

rd 2/2 

GAVRILOV, Y. A., kand. geologo-mineralogicheskikh nauk; MIKHAYLOV, N. N., kand.
sel'skokhoz. nauk

Determining the amount of fertilizers. Zemledelie 26 no.7:88-95 J1 '64.
(MIRA 18:7)

NR: AP6027914

SOURCE CODE: UR/0105/66/000/006/0049/0051

AUTHOR: Kazovskiy, Ye. Ya. (Doctor of technical sciences); Shakhtarin, V. N. (Engineer); Boltukhova, S. N. (Engineer; Leningrad); Mikhaylov, N. N. (Engineer; Moscow)

none

ABSTRACT: Study of a superconductive magnetic system with no steel core

REFERENCE: Elektrichestvo, no. 6, 1966, 49-51

KEYWORDS: magnetic coil design, superconductivity, uniform field generation, liquid helium temperature testing, inductance testing method, ferromagnetic superconductivity

SUMMARY: The article discusses the results of a number of tests on a magnetic superconductive coil system without central iron feed core performed for the purpose of investigating field behavior and distribution patterns and determining optimum system configuration and geometric dimensioning. An analysis was made of magnetic fields generated by a current flowing in two square coaxial coils with their frontal sections back. The analysis was performed by the force imposition technique, on the assumption of an infinitely small coil section and on the further supposition that this section is located in the geometric center of the coil cross section. Coils were designed using superconductive wire, 0.25 mm in diameter, of 65BT alloy. The feed system

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UDC: 621.3.042.13:537.312.62

NR: AP6027914

set of superconductive coils was experimentally tested by means of a heat shunt coupled with the coil center, and similar coils were also checked at the temperature of liquid helium with a current density up 468 A/mm^2 and an inductance of 0.785. Pertinent mathematical formulas are derived and results are analyzed in the light of proper coil design for the production of a uniform field. Good agreement is found between the rated and the experimental magnetic field induction, thus substantiating the accuracy of the formulas and the validity of their method of substituting an infinitely thin turn passing through the geometric center of the coil cross section in analyzing a superconductive coil system of the geometry considered. The authors wish to express their gratitude to N. Ye. Alekseyevskiy for his valuable commentary and help in this study. Orig. art. has: 7 formulas and 3 figures.

CODE: 20/ SUBM DATE: 18May65/ ORIG REF: 001/ OTH REF: 001

2/2

30

Apparatus for determining the speed of solution of rubber samples in organic solvents V Molodenskii and N. Mikhailov. *J. Rubber Ind.* (U. S. S. R.) 11, 343-4 (1934).—The app. consists of a reservoir for the solvent (Et₂O) and a series of 8 nonspinning extractors. The reservoir is connected with the extractors by means of a glass tube with stopcocks, to which are welded thick-wall capillary tubes. The sample is 0.3 g.; the speed of flow of Et₂O is 7 drops per min. (12 cc. per hr.). The extractors are immersed in wide-mouth receiving flasks, where the pure soln. is collected. These flasks are changed periodically, the solvent is distd. off, and the flasks are dried in CO₂ or N₂ *in vacuo*. A Pestoff

ASB SLA METALLURGICAL LITERATURE CLASSIFICATION

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30

The preservation of rubber against the deteriorating
 action of copper compounds V. Molodenski and N.
 Mikhailov. *Rubber Ind. U.S.S.R.* 12, 671 (1965).
 Attempts to transform active Cu compds into
 passive compds that would not disaggregate rubber were
 unsuccessful. Incorporation in the rubber mixt. of pro-
 tective colloids was effective. Such protective colloids are
 substances that are more strongly adsorbed by rubber than
 are Cu compds and, therefore, cover the surface of the
 nuclei of rubber. Synthetic Na butadiene rubber is
 a very good protective colloid; it should be used in a ratio
 higher than 1:1. The use of thioal in rubber mixts
 containing Cu compds did not preserve the rubber from dis-
 aggregation. A. P. Kostin.

METALLURGICAL LITERATURE CLASSIFICATION

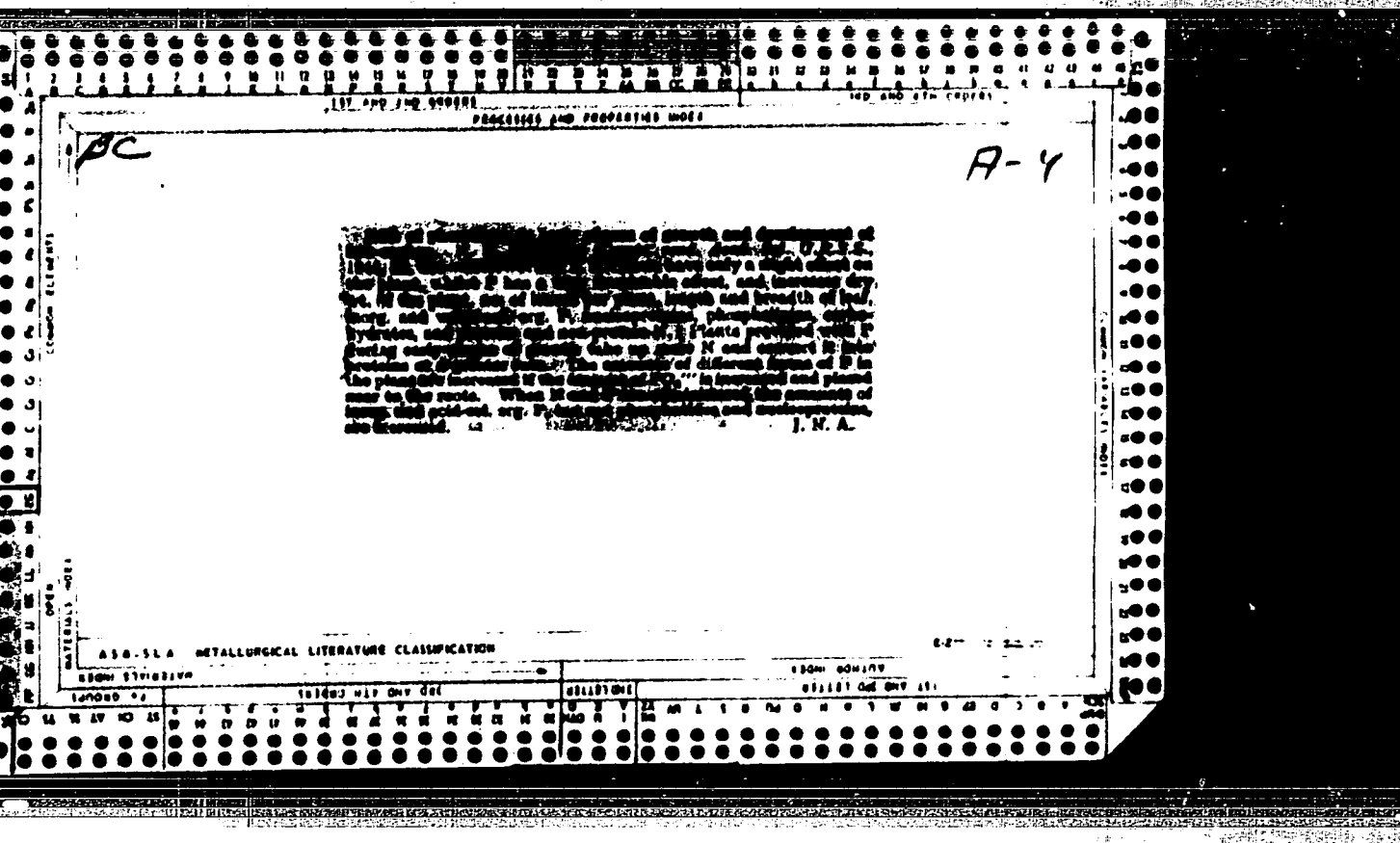
PROCESSING AND PROPERTY INDEX

30

Heat formation in rubber: a method of measurement
 N. N. Mikhailov and S. E. Polyak. *Caoutchouc and Rubber* (U. S. S. R.) 1959, No. 4 5, 27-36. The authors describe an original app. for measuring the amt. of heat evolved when a standard sample of rubber is subjected to a vibrational load. The app. consists of a stand with 2 columns supporting a loaded elastic beam motivated by an elec. motor through a ruler-bearing eccentric. The vibrations of the beam are transferred through a ring-type dynamometer to a piston bearing on the sample. The sample is set into a cylindrical chamber in a brass block which can be raised or lowered by means of a screw for the insertion of the sample and varying of static load. Provisions are also made for heating and cooling the sample by means of a nichrome coil and copper coil for elec. current and liquid air, resp. The resonance of the system is regulated by varying the static load on the beam. The dynamometer mounts 2 mirrors, free to rotate through a small angle whose axes are at right angles. The mirrors reflect a ray of light, originating from a lantern with a very small aperture, into a recording camera. When a vibration load is applied, the light "spot" traces out an ellipse upon the photographic plate or opaque glass screen. The heat evolved by each cycle can be calcd. by measuring the area, height, breadth and distance of ellipse center from the vertical axis. Appropriate equations and formulas are given.
 Bernard Kilberg

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOL	SEARCHED WITH ONLY ONE	CLASSIFIED	FROM SYMBOL	CLASSIFIED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



"Effect of Phosphate Feeding Conditions in the Initial Phases upon Kok-Saghyz Rubber Plants," N. N. Mikhaylov, Lab Agrochem, All-Union Soi Res Inst Rubber Plants, 34 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LXX, No 2

In past experiments, author clarified significance of improved conditions of phosphate nutrition on initial phases of kok-saghyz plant. In this article, discusses studies conducted to determine effect of initial stages of phosphate feeding of plants on final development of the plant. Pays particular

43758

USSR/Medicine - Rubber Plants (Contd) 11 Jan 1948

attention to absolute rubber content in the plant during growth period. Submitted by Academician N. A. Maksimov, 26 Oct 1947.

43758

PA 43/43758

MIKHAYLOV, N. N.

PA 5173

USSR/Chemistry - Rubber
Rubber Plants

21 Mar 1948

"Transformations of Phosphorus-Containing Substances of Kok-Saghyz in Ontogenesis," N. N. Mikhaylov, All-Union Sci Res Inst Rubber Plants, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 9

Studies of the form of phosphorus-containing substances in the ontogenesis of kok-saghyz conducted during 1940-1941 at experimental base of All-Union Scientific Research Institute of Rubber Plants (Mikh-nevo Pos., Moscow Oblast). Some work done at the agrochemical laboratory of the Institute in Moscow. Describes studies and results obtained. Submitted by Academician N. A. Maksimov, 24 Jan 1948.

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CA

Effect of nitrogen and phosphorus in extra radical supplementary feeding on accumulation of the root mass and rubber in roots of kok-saghyz. N. S. Mikhailov and I. Ya. Polozova. Doklady Akad. Nauk SSSR 1958, 181: 56-57. 1958. When the lower portions of the plants are sprayed with 1-2% aq. solutions of the fertilizers (NH₄ sulfate and superphosphate), the following results were noted: Added P gave a higher root mass and a 40% higher yield of rubber (in terms of percent content in root matter); with added N the root mass declined slightly and the absorption of resulting rubber was slightly below the control. The above experiments with strain 485 were repeated with tetraploid variety (strain FN 1) which gave the best effect with added N diet although added P also gave a positive result of small magnitude. The results are interpreted by the differences in biochemical characteristics of the 2 types. Strain 485 is late in ripening and the added N delayed its aging. G. M. Kosolapoff.

51

JK

14030* The Value of Fertilizers in Increasing the Yield
of Rub in the Route of Koh-Segya. (Russian.) N. N.
Mikhailov. *Sovetskaya Agronomiya*, v. 10, Apr. 1952, p. 66-72
Field tests were made on the above. Data are tabulated.

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ary, 1937, 143 p.

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tribution of the U.S.S.R. by N. Mikheylov, translated from the Russian by Natalie
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IC, Soviet Geography, Part I, 1951; Uncl.

MAILOV, N. N.

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YIAD, M. N.

enher

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CAF "Treasure Island" Nos 29231, 29233, 29236, 29246, 29247, 29248, 29249, 29250

AYLOV, Nikola~~Y~~ N.

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5.M444

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C, Soviet Geography, Part I, 1951, Uncl.

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..., Institute of Zoological Sciences, Acad. Sci. U.S.S.R.

... Boundary of the Caspian and Mediterranean Basins," Dokl. Akad. Nauk SSSR, 1961, No. 1, p. 141.

Mikhaylov, Nikolay Nikolayevich

Soviet Russia, the land and its people, by
Nicholas Mikhailov in collaboration with Vadim Pokshi-
shevsky. New York, Sheridan House [1948]
374 p. illus., maps. 22cm.
Translated from the Russian.

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LC, Soviet Geography, Part I, 1951, Uncl.

MIKHAYLOV, Nikolay Nikolayevich.

[Over a map of the netherland] Nad kartei rodiny. Izd. 2-ee perer. 1
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(Russia)

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YHAILOV, Nikolai N.

ros the map of the U. S. S. R. Moscow, Foreign Languages Pub. House, 1949.
4 p. plates, ports. Translation of Nad kartoi rodiny. Information on major
rms of transportation (p. 262-289).

This book adapted to an unsophisticated audience, contains propagandistic
description and accounts of Soviet exploration and discovery, new national
resources, mineral wealth, new industrial developments, agriculture,
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LIC: DK28.M482

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1946. 141 p. 3 maps (1 col. fold) Contains chapter on transportation.

DCL: DK267.M482

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DLC: HC335.M445

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p. 224).

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DLC: DK28.M5 1949

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DLC: HC335.M45 1937

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DLC: DK266.M46 1950

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DLC: HC335.M444

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516

CHAPLYGIN, Yu. [reviewer]; MIKHAYLOV, N.N. [author].

A trip through the native land ("Your native land." N.N.Mikhailov,
Reviewed by IU.Chaplygin) Voen.vest. no.14:54-58 '51. (MLRA 6:12)
(Mikhailov, Nikola, N.) (Russia--Description and travel)

MIKHAYLOV, N.H.

Boundless space. Vokrug sveta no.12:2-9 D '53. (MLRA 6:12)
(Russia--Description and travel)

MIKHAYLOV, Nikolay Nikolayevich; TYURIN, M., redaktor; MALINIHA, G.,
redaktor; KOROBEVNIK, N., redaktor; YEDOROVA, I., tekhnicheskii
redaktor.

[Looking at a map of our country] Nad kartoi rodiny. Izd. 3-e,
perer. i dop. [Moskva] Izd-vo TsK VLKSM "Molodaia gvardiia,"
1954. 447 p. (MLRA 8:11)
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MIKHAYLOV, N.

Winter and summer. Vokrug sveta no.1:18-25 Ja '54. (MLRA 7:1)
(Russia--Climate)