Problems of Strength (Cont.)



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Card 6/6

L 3571-66 EWT(m)/EWP(w)/EPF(c)/EWP(j)/T WW/EM/RM

ACCESSION NR: AP5024818 UR/0032/65/031/010/1239/1242
620.17 : 678.5.06

AUTHOR: Popov, G. G.; Voloskov, G. A.; Perchikhina, Ye. A.

TITLE: A method for testing plastics for permanent static strength

SOURCE: Zavodskaya laboratoriya, v. 31, no. 10, 1965, 1239-1242

TOPIC TAGS: tensile strength, plastic strength, synthetic material

ABSTRACT: Tests are made for experimentally verifying the hypothesis that the variance in data on the durability of plastics can be reduced by evaluating the load capacity of a specimen from the ratio $\alpha$ of the permanent strength $\sigma_p$ to the momentary strength $\sigma_m$. A batch of specimens was divided into two equal groups by random selection. The first group was tested for momentary tensile strength. The data were arranged in increasing order from $\sigma_{min}$ to $\sigma_{max}$, and each specimen was assigned its own ordinal number. It was assumed that if the second group of specimens were tested in the same manner for momentary strength, the distribution of data would be the same as for the first group. The second group was tested for permanent static tensile strength with the same stress being applied to all specimens. The index of relative load capacity $\alpha = \sigma_p/\sigma_m$ for each specimen has its own value asso-

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ACCESSION NR: AP5024818

ciated with the variance in the individual values of the momentary tests. I. e., in spite of a common stress for all samples in the second group, the specimens are tested at various levels of relative load capacity α. In addition to this, the static durability of the specimen in the second group of tests increases with the individual momentary strength of the specimen. The values of static durability for the specimens in the second group were then arranged in increasing order and each specimen was assigned its own number. The specimens in the second group were then assigned a momentary strength corresponding to the ordinal numbers of the specimens in the first group. Thus for each ordinal number there is a momentary strength $\sigma_m$ and a static life $\tau$ (in hours), the static stress being identical for all specimens. These data are used for plotting a permanent strength curve with the relative load factor α along the *y*-axis. The results show a considerable reduction in variance of data when compared with momentary strength tests alone. Orig. art. has: 3 figures, 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (All-Union Scientific Research Institute of Railroad Transportation) 44,55

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| NO REF SOV: 000 | OTHER: 000 | |

Card 2/2

POPOV, G.G.; VOLOSHOV, G.A.; PERCHIKHINA, Ye.A.

Methods for testing plastics for static stress-rupture strength. Zav.lab. 31 no.10:1239-1242 '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta.

L 46303-66 EWP(j)/EWP(k)/EWT(m)/T/EWP(v)/EWP(t)/ETI IJP(c) RM/RH/AT/JD/AT

ACC NR: AP6019929 (N) SOURCE CODE: UR/0122/66/000/006/0041/0043

AUTHOR: Rubenchik, S. A. (Engineer); Popov, G. G. (Candidate of technical sciences)

TITLE: The effect of surface preparation on the strength of steel adhesive joints

SOURCE: Vestnik mashinostroyeniya, no. 6, 1966, 41-43

TOPIC TAGS: surface finishing, metal surface, cement, epoxy plastic, resin, thermosetting material, pickling, sandwich structure

ABSTRACT: The authors discuss the effect of surface preparation on the strength of St.3 steel adhesive joints. An attempt is made to give a physical interpretation of the experimental data. Soviet epoxy resins were used throughout the study. The shear strength of epoxy joints is lower than their cleavage strength, however the joints are made to withstand shear since cleavage strength is not important in practice. The quality of the joints was evaluated by applying shearing loads. A formula is given for determining the breaking point under shear stress. Three tests were conducted using eight specimens each. The TsDM-10 machine was used with a clamp motion of 6 mm/min and a fixed distance of 100 mm between clamps. The following mechanical methods were used for surface preparation: polishing, emery cloth, sandblasting, hydraulic sandblasting and shot blasting. The specimens were degreased in acetone and then pickled by three different methods. Liquid hot-setting (E-1M, K-153G, Epoxy P) and cold-setting (E-P, K-153Kh) epoxies were used. The cold-setting epoxy was mixed with

Card 1/2 UDC: 621.792.3.05.3:539.4

L 46303-66

ACC NR: AP6019929

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cold ED-5[16] resin or K-153 compound for 5 minutes. The hot-setting material was mixed with ED-6 resin or K-153 compound and heated to 80°C. Diethyl analine was added as a catalyst to the adhesive based on ED-6 resin. The specimens were heated to 100-110°C. Powdered P epoxy was then applied to the surfaces and they were clamped. Hot-setting was done in drying cabinets and cold-setting was done at room temperature. The joining conditions are given. The best joints were between shot-blasted surfaces pickled for 2-4 minutes at 15-30°C in an aqueous solution of a mixture of nitric and sulfuric acids with an $H_2SO_4:HNO_3:H_2O$ ratio of 10:10:80. The mechanism responsible for the high strength of joints made with hot-setting materials is explained. It is assumed that the favorable results with these materials are due to high cohesive strength and increased mobility of molecular chains at high temperatures. The molecules of cold-setting cement based on Ed-5 resin, Thiokol and MGF-9[13] polyester are more mobile than those of cements based on pure ED-5 resin. Shot blasting, sandblasting and pickling produce cleaner surfaces and in the work function of electrons, resulting in a better cement-to-metal adhesion. Orig. art. has: 2 figures, 3 tables.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001

13/

Card 2/2

KARPOV, N.A., kand.tekhn.nauk; POPOV, G.G., kand.tekhn.nauk

Use polymeric materials in track mechanisms. Put' i put.khoz. 8 no.4:7-9'64. (MIRA 17:4)

POPOV, G.G., kand.tekhn.nauk; YAKHOV, M.S., inzh.

Use of synthetic materials for the superstructure. Zhel.-dor.transp. 45 no.12:15-16 D '63. (MIRA 17:2)

RUBENCHIK, S.A.; BILIK, Sh.M., doktor tekhn. nauk, retsenzent; POPOV, G.G., kand. tekhn.nauk, retsenzent; FILIPPOVA, L.S., inzh., red.; VOROB'YEVA, L.V., tekhn.red.

[Adhesives for metals and their use in railroad transportation structures] Klei dlia metallov i ikh primenenie v konstruktsiiakh zheleznodorozhnogo transporta. Moskva, Transzheldorizdat, 1963. 34 p. (MIRA 17:2)

POPOV, G.G.; SHLYAPINA, V.N.

Device for determining the relaxation of stresses in polymers. Kauch. i rez. 22 no.10:43-44 O '63. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta.

SHLYAPINA, V.N.; VINITSKIY, L.Ye.; POPOV, G.G.

Stress-rupture strength of rubber-metal samples in shear. Zav.lab. 29 no.7:872-874 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta.

(Rubber to metal bonding)

VOLKOVA, I.B.; NALIVKIN, D.V.; SLATVINSKAYA, Ye.A.; BOGOMAZOV, V.M.; GAVRILOVA, O.I.; GUREVICH, A.B.; MUDROV, A.M.; NIKOL'SKIY, V.M.; OSHURKOVA, M.V.; PETRENKO, A.A.; POGREBITSKIY, Ye.O.; RITENBERG, M.I.; BOCHKOVSKIY, F.A.; KIM, N.G.; LUSHCHIKHIN, G.M.; LYUBER, A.A.; MAKEDONTSOV, A.V.; SENDERZON, E.M.; SINITSYN, V.M.; SHORIN, V.P.; BELYANKIN, L.F.; VAL'TS, I.E.; VLASOV, V.M.; ISHINA, T.A.; KONIVETS, V.I.; MARKOVICH, Ye.M.; MOKRINSKIY, V.V.; PROSVIRYAKOVA, Z.P.; RADCHENKO, O.A.; SEMERIKOV, A.A.; FADDEYEVA, Z.I.; BUTOVA, Ye.P.; VERBITSKAYA, Z.I.; DZENS-LITOVSKAYA, O.A.; DUBAR', G.P.; IVANOV, N.V.; KARPOV, N.F.; KOLESNIKOV, Ch.M.; NEFED'YEV, L.P.; POPOV, G.G.; SHTEMPEL', B.M.; KIRYUKOV, V.V.; LAVROV, V.V.; SAL'NIKOV, B.A.; MONAKHOVA, L.P.[deceased]; MURATOV. M.V.; GORSKIY, I.I., glav. red.; GUSEV, A.I., red.; MOLCHANOV, I.I., red.; TYZHNOV, A.V., red.; SHABAROV, N.V., red.; YAVORSKIY, V.I., red.; REYKHERT, L.A., red.izd-va; ZAMARAYEVA, R.A., tekhn. red

[Atlas of maps of coal deposits of the U.S.S.R.]Atlas kart ugle-nakopleniia na territorii SSSR. Glav. red. I.I.Gorskii. Zam. glav. red. V.V.Mokrinskii. Chleny red. kollegii: F.A.Bochkovskiy i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 17 p.
(MIRA 16:3)

1. Akademiya nauk SSSR. Laboratoriya geologii uglya. 2. Chlen-korrespondent Akademii nauk SSSR (for Muratov).
(Coal geology--Maps)

KHASKIN, Khaim Mendelevich; POPOV, G.G., red.; DONNIKOVA, A.A., red.izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Technical and economic justification in the construction of enterprises of the forest and wood-using industries]Tekhniko-ekonomicheskoe obosnovanie stroitel'stva predpriiatii lesnoi fabrichno-zavodskoi promyshlennosti. Moskva, Goslesbumizdat, 1962. 98 p. (MIRA 16:4)
(Wood-using industries)
(Industrial plants--Design and construction)

L 10508-63 EPR/EPF(c)/EWP(j)/EWT(m)/BDS--AFFTC/ASD--Pc-4/Pr-4/Ps-4--RM/WW

ACCESSION NR: AP3000115 S/0122/63/000/005/0033/0035

AUTHOR: Popov, G. G. (Candidate of technical sciences); Perchikhina, Ye. A. (Engineer) 70

TITLE: Rupture strength of adhesive-bonded steel joints 15

SOURCE: Vestnik mashinostroyeniya, no. 5, 1963, 33-35

TOPIC TAGS: adhesive bonding, cement BF-2, thermosetting adhesive, shear strength, rupture strength

ABSTRACT: The strength of steel joints bonded with BF-2 15 thermosetting adhesive was tested. The faying surfaces (60 x 30 mm) of specimens were coated with three layers of adhesive; each layer was dried in air for one hour and at 90C for 15 min prior to the application of the next layer. Glass Cloth 0.3 mm thick, coated on both sides with adhesive and air dried for one hour, was placed between the faying surfaces, which were then pressed together under a pressure of 5 kg/cm² and held at 160—170C for 4 hr. The short-time shear strength of the bond varied from 230 to 410 kg/cm²; the most frequent (approximately 80%) value was 300 kg/cm². The shear strength of the bond depended on the time of load application. As the time of load application (rupture life) increased from 1 to

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L 10508-63
ACCESSION NR: AP3000115

1000 min, the average shear strength dropped 40%. Under a stress of nearly 50% of the short-time strength, the rupture life of the bond can reach 6—8 yr.
Orig. art. has: 5 figures.

ASSOCIATION: none

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Card 2/2

POPOV, G.G., kand.tekhn.nauk; PERCHIKHINA, Ye.A., inzh.

Lasting static strength of glued steel joints. Vest.mashinostr. 43 no.5:33-35 My '63. (MIRA 16:5)
(Steel—Testing) (Gluing)

POPOV, G.G.; PERCHIKHINA, Ye.A.; KATKOV, V.G.; BOGDANCHENKO, A.C.; TERLETSKIY, A.A.; KAGASOV, V.M.; SMAGINA, Ye.I.; KUTSEV, V.S.

Exchange of experience. Zav.lab. 28 no.4:509-511 '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (for Popov, Perchikhina). 2. Institut fizicheskoy khimii AN SSSR (for Katkov). 3. Zavod "Dneprospetsstal'" (for Bogdanchenko, Terletskiy). 4. Karagandinskiy metallurgicheskiy zavod (for Kagasov). 5. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyshlennosti (for Smagina, Kutsev).

(Testing machines)

BAKSHTANSKAYA, R.S.; POPOV, G.G., nauchno-tekhn. red.; RODOVSKAYA, M.V., otv. za vypusk; GROMOV, Yu.V., tekhn. red.

[Use of plastics and synthetic products in railroad transportation in the U.S.S.R. and in foreign countries; bibliographic index of Soviet and foreign publications] Primenenie plastmass i sinteticheskikh materialov na zheleznodorozhnom transporte v SSSR i za rubezhom; bibliograficheskii ukazatel' otechestvennoi i inostrannoi literatury, 1950-1960 gg. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 38 p. (MIRA 15:2)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. TSentral'naya nauchno-tekhnicheskaya biblioteka.
(Bibliography--Railroads--Equipment and supplies)
(Bibliography--Plastics)

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S/137/60/000/009/017/029
A006/A001

18.8200 1146.

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, p. 251, # 21538

AUTHOR: Popov, G.G.

TITLE: Testing the Endurance of Steels by Preliminary Cyclic Overloads

PERIODICAL: V sb.: Vopr. prochnosti materialov i konstruktsiy, Moscow, AN SSSR, 1959, pp. 14-35

TEXT: The author studied the effect of preliminary fatigue tests in order to determine the resistance of metals to fatigue failure under conditions of alternating loads. It is established that the effect of strengthening or softening during the tests is explained by the fact that a group of weak grains of the material undergoes plastic dislocations during conventional fatigue tests, as they were not preliminary strengthened. This promotes the development of a "disintegration" process and a decrease in the strength. In tests with stresses over $\sigma_w$ two stages of fatigue development are observed: 1) the stage of strengthening of the weakest grain group with a simultaneous development of the

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Testing the Endurance of Steels by Preliminary Cyclic Overloads

"disintegration" process and 2) the stage of failure of one group of weakest grains and simultaneous strengthening of other stronger grains. Strengthening takes place at a low amplitude of plastic deformation reducing thereby the softening effect of the "disintegration" process.

S.G.

Translator's note: This is the full translation of the original Russian abstract.

BELYANKIN, F.P.; PANSHIN, B.I.; LUK'YANCHIKOV, I.K.; POPOV, G.G.; ASHKENAZI, Ye.K.; NIKOL'SKOY, A.M.; KANAVETS, I.F.

Discussion of the methods for investigating and testing physicomechanical properties of plastics. Replies to an inquiry published in issue no.1 of "Zavodskaia laboratoriia", 1960. Zav.lab. 26 no.6:655-678 '60. (MIRA 13:7)

1. Institut stroitel'noy mekhaniki Akademii nauk USSR (for Belyankin). 2. Vsesoyuznyy institut aviatsionnykh materialov (for Panshin, Nikol'skoy). 3. TSentral'nyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (for Luk'yanchikov & Popov). 4. Leningradskaya lesotekhni-cheskaya akademiya im. S.M.Kirova (for Ashkenazi). 5. Nauchno-issledovatel'skiy institut plasticheskikh mass (for Kanavets).
(Plastics)

S/032/60/026/06/03/044
B010/B126

15.8000

AUTHORS: Luk'yanchikov, I. K., Popov, G. G.

TITLE: Discussion of Methods of Examining and Testing the Physico-mechanical Properties of Plastics. Answers to the Inquiry, Published in No. 1 of the Periodical "Zavodskaya laboratoriya" of 1960

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 6, pp. 665 - 667

TEXT: The authors suggest, among other things, that systematic examinations of the mechanical properties of plastics must be carried out. Stability tests must be specially worked out for plastics, and the methods of testing metals must not be used. Special attention must also be paid to creeping of plastics at room- and lower temperatures. In the laboratory for the stability of polymers of the authors' institute, supports were constructed for machines for the simultaneous testing of durability and the creeping of plastics (Fig., durability curve for impact resistant polystyrene of the type СНП (SNP)). Until now, no standard method of testing fatigue in plastics had been devised. Some advice for the establishment of

Card 1/2

POPOV, G. I.

Millet

Cause of long-term stability in proso millet. Sel. i sem., 19, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

POPOV, G. I.

"Agrobiological Basis for the Selection of Millet." Dr Agr Sci, All-Union Inst of Plant Growing, Leningrad, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

POPOV, G.I.

[Economics and organization of production in mine construction] Ekonomika i organizatsiia proizvodstva shakhtnogo stroitel'stva. M., Ugletekhizdat, 1953. 258 p. (MLRA 8:4)
(Mining engineering)

POPOV, G. I., Captain. [illegible] and Tech Sci

Dissertation: "Strength and Rigidity of Reinforced-Concrete Beams and Preliminary Stressed Reinforced-Concrete Beams at Work under Static and Impact Loads."

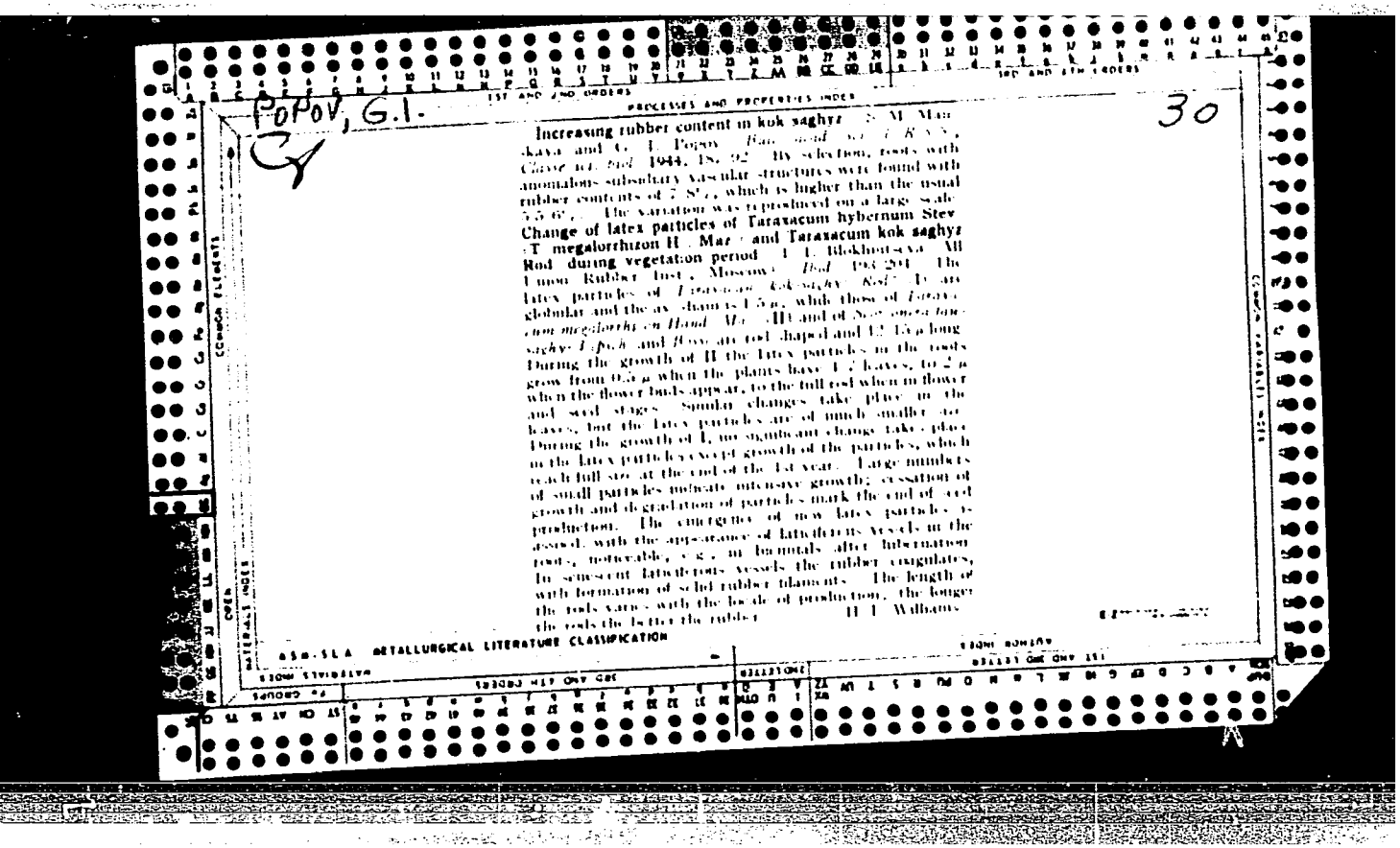
3/7/50

Military Engineering Academy imeni V. V. Kuybyshev.

SO Vecheryaya Moskva
Sum 71

CHUYKO, Aleksandr Vladimirovich, kandidat tekhnicheskikh nauk; ZHDANOV, V.S., dotsent, kandidat tekhnicheskikh nauk, inzhener-polkovnik, redaktor; POPOV, G.I., kandidat tekhnicheskikh nauk, mayor, redaktor; KADER, Ya.M., redaktor; LEVINSKAYA, N.Z., tekhnicheskiy redaktor.

[Reinforced concrete]Zhelezobeton. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956. 134 p. (MLRA 9:8)
(Reinforced concrete)



POPOV, G.I.

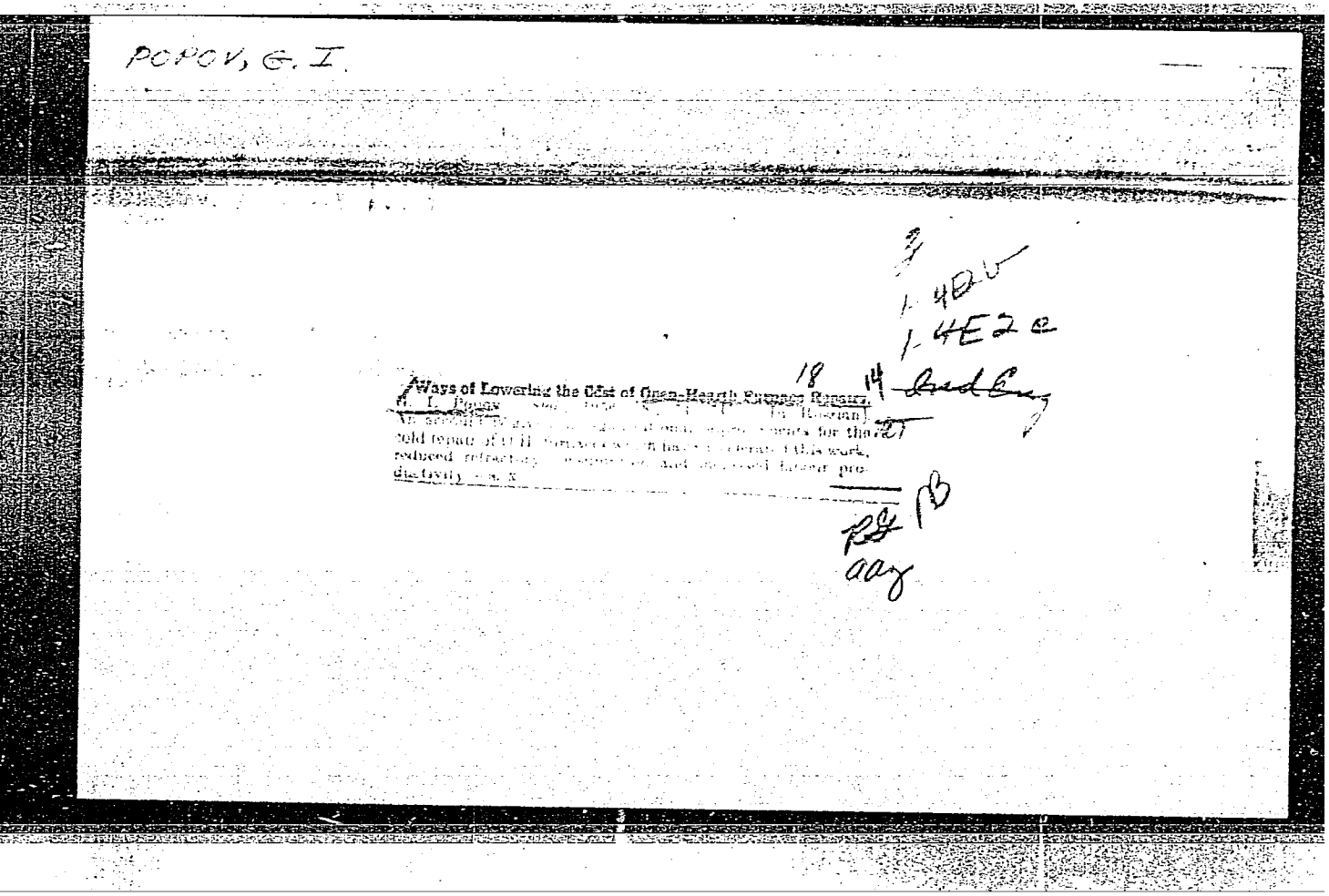
30

PROCESSES AND PROPERTIES INDEX

**Increasing rubber content in kok saghyz** S. M. Man-skaya and G. I. Popov *Plant. and Soil Sci. U.S.S.R.*, *Chem. and Ind.* 1944, 18, 92. By selection, roots with anomalous subsidiary vascular structures were found with rubber contents of 7.8%, which is higher than the usual 5.5-6%. The variation was reproduced on a large scale.

**Change of latex particles of Taraxacum hybernum Stev. T megalorrhizon H. Mar.** and **Taraxacum kok saghyz Rod during vegetation period** I. I. Iliokhovich All Union Rubber Inst., Moscow. *Bull.* 1943, 201. The latex particles of *Taraxacum kok-saghyz Rod.* are globular and the av. diam. is 1.5 μ, while those of *Taraxacum megalorrhizon Hand. Mz.* (Hand. et Scorzonera tau-saghyz *Lipsch.* and *Bosse* are rod shaped and 1.5-15 μ long. During the growth of H the latex particles in the roots grow from 0.6 μ when the plants have 1-2 leaves, to 2 μ when the flower buds appear, to the full size when in flower and seed stages. Similar changes take place in the leaves, but the latex particles are of much smaller size. During the growth of I, no significant change takes place in the latex particles except growth of the particles, which reach full size at the end of the 1st year. Large numbers of small particles indicate intensive growth; cessation of growth and degradation of particles mark the end of root production. The emergence of new latex particles is parallel with the appearance of latex-bearing vessels in the roots, noticeable, e.g., in hypocotyls after germination. In senescent latex-bearing vessels the rubber coagulates, with formation of solid rubber filaments. The length of the roots varies with the locale of production, the longer the roots the better the rubber. H. I. Williams

65m-SLA METALLURGICAL LITERATURE CLASSIFICATION



POPOV, G. I.

Ways of Lowering the Cost of Open-Hearth Furnace Repairs

POPOV, G.I.

Tartrate cadmium salts. Ukrain. Khim. Zhur. 17, 597-609 '51. (MIRA 6:4)
(CA 47 no.22:12086 '53)

1. Dagestan Agr. Inst.

**The prognosis of the salinity of the Volga Don canal reservoir and of the waters of the river Don below the reservoir.** G. I. Popov. (Hydrochem. Inst., Novocherkassk). *Gidrokhim. Materialy* (Hydrochem. Materials) 15, 131-79 (1948).—Calcns. are presented on the probable salt content of the waters in the huge reservoir in connection with the projected construction of the Volga-Don canal. The most important factor in these calcns. is the evapn. from the reservoir which will tend to increase the salt content of the waters as compared with that of the Don River. It is estd. that the salt content will increase from 307 mg. l. to 375 mg. l. In dry years the salt content may rise to 400 mg./l. The method of calcn. is described and the results are presented in the form of tables, charts, and a no. of math. formulas and equations. J. S. Joffe

1. [redacted], V. I.

2. USSR (6[redacted])

"Forecast of the Salt Content in the Water of th Kuibyshev Reservoir of the Volga Don Canal and of the Water of the Don River Below that Reservoir." Gidrokhimicheskiye materialy, Volume XV, 1948 (170-179)

9. Meteorologiya i Gidrologiya, No.3, 1949.
[redacted] Report U-2551, 30 Oct 52

POPOV, G.I.

Tsunami. Priroda 54 no.12:98-102 D '65.

1. Institut fiziki Zemli AN SSSR, Moskva. (MIRA 18:12)

POPOV, G. I.

Popov, G. I. "On the growth and genesis of the Scythian clay of the southern European part of the USSR," Trudy Novocherkas, politekhn. in-ta im. Ordzhonikidze, Vol. XVII, 1948, p. 15-23 - Bibliog: 28 items

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, no. 3, 1949)

POPOV, G. I.

Cheleken Peninsula - Mollusks, Fossil

Fauna of the Apsheron formation of Cheleken. Izv. Turk. fil. AN SSSR No. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

POPOV, G.I., dotsent, kandidat tekhnicheskikh nauk.

Stratigraphy of Quaternary deposits in the Black Sea-Caspian Basin (Manych strait). Nauch. trudy MPI 26:151-165 '55. (MLRA 9:12)
(Black Sea region--Geology, Stratigraphic)
(Caspian Sea region--Geology, Stratigraphic)

POPOV, G.I.

History of the Manych Straits in relation to the stratigraphy of Black Sea and Caspian Sea Quarternary deposits. Biul.MOIP.Otd.Geol. 30 no.2: 31-49 Mr-Ap '55. (MLRA 8:8)
(Manych Depression--Geology, Stratigraphic)

POPOV, G.I.

USSR/ Geology

Card 1/1 Pub. 22 - 39/51

Authors : Popov, G. I.

Title : Stratigraphic separation and a comparison of Black and Caspian Sea Quaternary deposits

Periodical : Dok. AN SSSR 101/1, 143-146, Mar 1, 1955

Abstract : Paleontological-stratigraphic and geomorphological investigations carried out for many years made it possible to determine and compare the Quaternary period deposits of the Black-Azov and Caspian Sea basins and in the Manychskiy straits connecting these basins. Geological data regarding the Quaternary period deposits are presented. Seven USSR references (1926-1953). Tables.

Institution : The S. Ordzhonikidze Polytechnicum, Novocherkassy

Presented by : Academician N. M. Strakhov, December 14, 1954

POPOV,G.I.

Apsheron deposits of Ala-Dagh. Dokl. AN SSSR 103 no.4:681-683 Ag '55. (MLRA 8:11)

1. Institut geologii Akademii nauk Turkmenskoy SSR. Predstavleno D.V.Nalivkinym

(Ala-Dagh--Geology, Stratigraphic)

POPOV, G.I.

"Age correlation of deposits of the Uzunlarskoye and Karangatskoye overlaps," by G.I. Goretskii. Reviewed by G.I. Popov. Biul.MOIP. Otd.geol. 31 no.4:77-79 Jl-Ag '56. (MLRA 9:12)

(Geology, Stratigraphic) (Goretskii, G.I.)

POPOV, G.I.

Oligocene Oncophora sediments in the Caspian Depression and lower Don Valley. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:55-57 '59. (MIRA 12:6)

1. Novocherkasskiy politekhnicheskiy institut, kafedra obshchey i istoricheskoy geologii.
(Caspian Depression--Mollusks, Fossil)
(Don Valley--Mollusks, Fossil)

POPOV, G.I.

New data on the fauna of the Akchagyl' stage. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.5:107-117 '60. (MIRA 17:12)

POPOV, G.I.

Conditions governing the formation of tsunami near the coast of Chile. Okeanologiia 4 no.1:74-80 '64. (MIRA 17:4)

POPOV, G.I.

Increasing the durability of open-hearth furnace arches. Metallurg 9 no.2:14-16 F '64. (MIRA 17:3)

1. Zavod "Zaporozhstal'".

POPOV, G.I.

Tsunami in the Pacific Ocean of May 1960. Okeanologiia 3 no.5:785-797 '63. (MIRA 16:11)

PIROGOV, A.A.; LEVE, Ye.N.; KRASS, Ya.R.; POPOV, G.I.; KOVAL'CHUK, Ye.I.

Unfired brick made of magnesite-chromite concrete for the building of open-hearth furnaces. Ogneupory 29 no.2:55-59 '64. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Pirogov, Leve, Krass). 2. Zavod "Zaporozhstal'" (for Popov, Koval'chuk).

POPOV, G.I.

International cooperation in the study of tsunami. Okeanologiia 2 no.6:1118-1119 '62. (MIRA 17:2)

POPOV, G. I.

Relationship between continental and marine Upper Pliocene sediments in the southern and southeastern areas of the European part of the U.S.S.R., in connection with the problem of the lower boundary of the Quaternary. Trudy Kom. chetv. per. 20: 92-97 '62. (MIRA 16:1)

(Geology, Stratigraphic)

BERMAN, Sh.M.; YAN'SHINA, M.P.; SHAPOVALOV, V.S.; Prinimali uchastiye: KOVAL'CHUK, Ye.I.; PLOSHENKO, Ye.A.; POPOV, G.I.; SHKAPIN, V.G.; ANTONOV, G.I.; KOVTUN, A.M.

Service conditions and processes of the wear of basic refractories in the bulkheads of open-hearth furnace front walls. Sbor.nauch. trud. UNIIO no.5:181-201 '61. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Antonov, Kovtun).
(Open-hearth furnaces--Design and construction)
(Firebrick--Testing)

SMIRNOV, L.N., glav. red.; KHANOV, S., red.; KALUGIN, P.I., red.; MASHRYKOV, K.K., red.; MAMEDOV, Kh.M., red.; [illegible]OV, G.I., red.; ROZYYEVA, T.R., red.; MAYOROVA, Yu.V., red.izd-va; IVONT'YEVA, G.A., tekhn. red.

[Problems of the geology of Turkmenia] Voprosy geologii Turkmenii. Ashkhabad, Izd-vo AN Turkmenskoi SSR, 1963. 146 p. (MIRA 16:10)

1. Akademiya nauk Turkmenskoy SSR, Ashkhabad. Institut geologii.
(Turkmenistan--Geology)

GEVORGYAN, B.A.; KATSMAN, Yu.V.; LIMONOV, G.Ye.; SAMKOV, V.S.; KATKOV, V.P.; VINOGRADOVA, L.V.; MAMYKINA, A.D.; POPOV, G.I.; DOROKHOV, A.A.; FALEYEV, G.A., inzh., retsenzent; BOGATAYA, L.M., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Press method for meat boning and deveining] Obvalka i zhilovka miasa pressovaniem. [By] B.A.Gevorgian i dr. Moskva, Pishchepromizdat, 1963. 31 p. (MIRA 16:8)
(Meat industry--Equipment and supplies) (Sausages)

POPOV, G.I.

Forecasting tsunamis. Geofiz.biul. no.12:7-9 '62. (MIRA 16:5)
(Tidal waves)

KELDYSH, V.M., prof., doktor tekhn.nauk; SINITSYN, A.P., prof., doktor tekhn.nauk; POPOV, G.I., dotsent, kand.tekhn.nauk; ZHDANOV, V.S., dotsent, kand.tekhn.nauk

"Design of reinforced concrete axially symmetrical elements (shells)" by A.M. Ovechkina. Reviewed by V.M. Keldysh and others. Bet. i zhel.-bet. 8 no.10:477-478 O '62. (MIRA 15:11)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Keldysh).
(Roofs, Shell)
(Ovechkina, A.M.)

POPOV, G. I., kand. med. nauk

Late results of treating syphilis with penicillin and artificially induced fever. Vest. derm. i ven. 36 no.6:50-52 Je '62. (MIRA 15:6)

1. Iz kafedry dermato-venerologii (zav. - prof. K. A. Kalantayevskaya) Kiyevskogo instituta usovershenstvovaniya vrachey (dir. - dotsent M. N. Umovist)

(SYPHILIS) (PENICILLIN) (FEVER THERAPY)

POPOV, G.I., inzh.; MARCHENKO, P.S.

Comments on the article "Inspection of the equipment of rolling mills." Mont. i spets. rab. v stroi. 24 no.7:25-27 Jl '62. (MIRA 15:6)

1. Gosudarstvennyy trest po montazhu metallurgicheskogo oborudovaniya v vostovhnykh rayonakh.
(Rolling mills--Equipment and supplies)

POPOV, Gennadiy Ivanovich; LUPPOV, N.P., doktor geol.-min. nauk, nauchnyy red.; MAYOROVA, Yu.M., red. izd-va; ZUBOVA, N.I., tekhn. red.

[Apsheronian stage of Turkmenia] Apsheronskii iarus Turkmenii. Ashkhabad, Izd-vo Akad. nauk Turk Turkmenskoi SSR, 1961. 429 (MIRA 15:4)
(Turkmenistan--Geology, Stratigraphic)

POPOV, G.I., inzh.

Assembling rolling equipment at the Bhilai metallurgical plant in India. Mont.i spets.rab.v stroi. 23 no.6:3-6 Je '61. (MIRA 14:7)

1. Trest Vostokmetallurgmontazh.
(Bhilai, India--Metallurgical plants)

LEBEDEVA, N.A.; POPOV, G.I.

Recent data on the upper Pliocene of the Kuban. Dokl.AN SSSR 138 no.3:647-650 My '61. (MIRA 14:5)

1. Predstavleno akademikom A.L.Yanshinym.
(Kuban—Geology, Stratigraphic)

SURKOV, V.D.; POPOV, G.I.; VASIL'YEV, K.M.

Automated plasticizer for cottage cheese and other protein products. Izv.vys.ucheb.zav.; pishch.tekh. 1:136-139 '61. (MIRA 14:3)

1. Moskovskiy tekhnologicheskiy institut myasnoy i malochnoy promyshlennosti, Kafedra tekhnologii moloka.
(Cottage cheese)

POPOV, G.I.

Conditions leading to the formation of tsunamis. Biul. Sov. po seism. no.9:7-22 '61. (MIRA 14:4)
(Pacific Ocean--Tidal waves)

IVANOVA, I.D.; POPOV, G.I.

Recent data on the age of the high terraces of the Dniester Valley based on finds of the mollusk fauna. Dokl. AN SSSR 136 no.6:1425-1427 F '61. (MIRA 14:3)

1. Predstavleno akademikom V. N. Sukachevym.
(Dnieper Valley--Terraces (Geology))

SUMAROKOV, N.V.; POPOV, G.I., otv. za vypusk

[New cementation processes; collected articles] Novaia tekhnologiia tsementatsii; sbornik statei. Perm', TsBTI Soveta narodnogo khoz. Permskogo ekon.administrativnogo raiona, 1959. 123 p. (MIRA 14:4)

1. Permskoye oblastnoye nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti.
(Cementation (Metallurgy))

15-57-12-16808

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12, p 19 (USSR)

AUTHOR: Popov, G. I.

TITLE: The Apsheron Series of Southwestern Turkmenistan (Apsheronskiy yarus Yugo-Zapadnogo Turkmenistana)

PERIODICAL: Tr. In-ta geol. AN TurkmSSR, 1956, Nr 1, pp 128-162

ABSTRACT: The Apsheron deposits in southwestern Turkmeniya are most widespread in the Balkhan region. They are also exposed at Malyy Balkhan. The eastern boundary of these rocks extends along the foothills of Kopet-Dag. In the region of Kaymir and Madau, the sequence is found in drill holes. On the north, outcrops of the Apsheron rocks are bounded by the Sarykamysh and Aral vpadiny (basins). The rocks are exposed along the entire Uzboy and on the Krasnovodsk Peninsula. On the basis of new data, the author has subdivided three

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The Apsheron Series of Southwestern Turkmenistan (Cont.)

differently aged groups of molluscs, associated with three lithologic groups of sediments. The lower unit is characterized by gastropods of the genus Streptocerella and by gastropods of the type Turricaspia spica (Eichw.) n. var. dyp. and Gr. The middle unit is distinguished by pelecypods: ribbed and smooth Apsheronia and representatives of the genera Hyrcania, Monodacna, Corbicula, and others. Fossils are fewer in the upper Apsheron rocks. Ribbed Apscheronia disappear and many of the species of Monodacna, Hyrcania, and others are met less frequently. However, the group Didacnomia and the fresh-water forms Anodonta, Limnaea, and Planorbis make their appearance. The boundary between Akchagyl and Apsheron deposits is now placed more accurately. The following conclusions are based on a study of the structure of the Apsheron deposits in different regions. The Apsheron deposits are chiefly clay in southwestern Turkmeniya. The thickness and quantity of sand increase from west to east and from the base upward. The sand grains also increase in size in the same directions, and the appearance of limestones with

The Apsheron Series of Southwestern Turkmenistan (Cont.)

accumulations of medium-sized gravel has a similar trend. The thickness of the Apsheron deposits as a whole is constant, as are the principal subdivisions. Only the small stratigraphic units show variation. Sections show that the Apsheron basseyn (basin) conformed to a great extent with the Akchagyl. The greatest curtailment of its area occurred at the beginning and the end of the epoch. The basseyn (basin) apparently contained deep water in lower Apsheron time. Shoaling began in lower Apsheron time and continued till the end of upper Apsheron time. A study of the fauna indicates that the Apsheron basseyn (basin) was fresher than the Akchagyl basin.

Card 3/3

V. A. Levitskaya

POPOV, Grigoriy Ivanovich

Ekonomika, organizatsiya i planirovaniye proizvodstva v shakhtnom stroitel'stve. [The economy, organization and planning in mining construction] 2., perer. i dop. Izd. Moskva, Ugletekhizdat, 1958.
365 P. Illus., Diagrs., Tables.
Bibliography: P. 362.

SOV/133-58-10-9/31

AUTHORS: Koval'chuk, Ye.I. and Popov, G.I.

TITLE: Service Life of Open-hearth Refractory Lining When Using Oxygen (Sluzhba futerovki martenovskikh pechey pri rabote na kislorode)

PERIODICAL: Stal', 1958, Nr 10, pp 890 - 893 (USSR)

ABSTRACT: The influence of the application of oxygen on the durability of chrome-magnesite roofs and other elements of open-hearth furnace lining is discussed on the basis of data collected on the Zaporozhstal' Works. It is pointed out that a direct comparison of the durability of various parts of the lining, before oxygen was introduced, with the present service life is impracticable as the design of the lining was different from the present one. The dependence of the roof life on the conditions of blowing oxygen into the bath and the dependence of the service life of various parts of furnace on the method of supplying oxygen are shown in Tables 1 and 2, respectively. It is concluded that in order to increase the life of furnaces operating with oxygen, the following changes should be made: a) the design of the roof should be changed so as to provide compensation for

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linear expansion of magnesite-chromite bricks; b) silica lining of the rocfs of slag pockets and to some extent of regenerator should be replaced by magnesite-chromite refractories; c) the walls of regenerators should be faced with chrome-magnesite bricks; d) the height of the under-regenerators' space should be increased and cleaning of regenerators during their service life should be improved; the quality of roof bricks should be improved by increasing their density, improving the constancy of their volume at 1 700 °C and increasing the temperature of the beginning of deformation under load; e) improved maintenance of furnaces and, f) continuous improvement of installation for blowing into the bath. There are 2 tables.

ASSOCIATION: Zavod "Zaporozhstal'" ("Zaporozhstal'" Works)

POPOV, G. I.

USSR/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15532

Author : G.I. Popov
Inst : -
Title : Changes in the Corn Plant.
(Izmeneniye kukuruznogo rasteniya).

Orig Pub : Agrobiologiya, 1957, No 3, 90-98

Abstract : Corn under northern conditions (at the Leningrad Selection Station), especially when accelerated plant growth measures are applied (cultivating the shoots in hot houses), even welll composed and widely distributed varieties experience strong modifications of the standard plant type and change many variety characteristics. These changes frequently go beyond the limits of the group, the subspecies and even the species, since they affect both the vegetative and the generative characteristics. Cases are described in which there was a large-

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KOVAL'CHUK, Ye.I.; POPOV, G.I.

Service of open-hearth furnace linings operating with use of oxygen (with summary in English). Stal' 18 no.10:890-893 O '58. (MIRA 11:11)

1. Zavod "Zaporozhstal'."
(Open-hearth furnaces--Maintenance and repair)
(Refractory materials) (Oxygen--Industrial applications)

MARCHENKO, P.S., inzh.; POPOV, G.I., inzh.

Adjusting rolling mills. Mov. tekh. i pered. op v stroi. 20 no. 7:25-28 Jl '58. (MIRA 11:8)
(Rolling mills)

POPOV, Grigoriy Ivanovich,; GRIBIN, G.P., otv. red.; OSTROVSKIY, I.I.,otv. red.; SUROVA, V.A., red. izd-va,; SHELYAR, Ye. Ya., tekhn. red.; ALADOVA, Ye. I., tekhn. red.

[Economics, organization and planning of production in mine construction] Ekonomika, organizatsiia i planirovanie proizvodstva v shakhtnom stroitel'stve. Moskva, Ugletekhizdat, 1958. 365 p. (MIRA 11:11)

(Coal mines and mining)

POPOV, G.I.

(Georgiy Ivanovich)

"Agrobiological Principles of Millet Selection," (Dissertation), Academic degree of Doctor in Agriculture Sciences, based on his defense, 11 December 1953, in the Council of the All-Union Sci Res Inst of Plant Growing.

Leningrad State Selection Station

PA 65/49T96

POPOV, G. I.

USSR/Medicine - Gonorrhea, Therapy Jan/Feb 49
Sulfanilamide

"The Problem of Oposulfamide Therapy for Sulfa-Resistant Gonorrhea," G. I. Popov, Chair of Skin and Venereal Diseases, Chair of Gen Biol, Kazakh Med Inst imeni V. M. Molotov, 2 pp

"Vest Venerol 1 Dermatol" No 1

Sulfamide acts against gonorrheal infection in three ways, but in all of them it is necessary that the case indicates a certain degree of natural immunity. The treatment is less effective when body resistance is low. Describes

65/49T96

USSR/Medicine - Gonorrhea, Therapy Jan/Feb 49
(Contd)

peculiarities of oposulfamide and briefly mentions its effects. In all cases sulfamide therapy combined with opotherapy produced excellent results, averaging 5 - 7 days to effect cure. Requests further practical use of this substance.

65/49T96

POPOV, G.I.

Result of the treatment of syphilis with penicillin and fever. Vest. vener., Moskva no.3:30-34 May-June 1953. (CIML 25:1)

1. Of Kiev Scientific-Research Dermato-Venereological Institute (Director -- Prof. A. P. Lavrov).

POPOV, V.I.

"Experiments in Penicillin-Pyrotherapy of Syphilis." Cand Med Sci, Odessa Medical Inst, Odessa, 1954. (RZhBiol, No 8, Apr 55)

SO: Sum.No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14 ).

POPOV, G.I.

Electric potentials of the skin in penicillin and fever therapy for syphilis. Vest. ven. i derm. 6:33-35 N-D '55. (MLRA 9:5)

1. Iz otdela sifilidologii ispolynayushchiy obyazannosti zaveduyushchego G.I. Popov) Kiyevskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir.G.Ye. Koryakin)

(FEVER THERAPY, in various dis.
syphilis, with penicillin ther., electric potentials of skin)
(PENICILLIN, ther. us
syphilis, with fever thers. electric potentials of skin)
(SYPHILIS, ther.
penicillin & fever ther., electric potentials of skin in)
(SKIN, physiol.
electric potentials, in penicillin & fever ther. of syphilis)

BEZYUK, N.G., dotsent ; POPOV, G.I.

Diagnostic errors and improper surgical intervention in dermato-venerology. Khirurgiia 33 no.7:128-131 Jl '57. (MIRA 10:11)

1. Iz otdela dermatologii (zav. - dotsent N.G.Bezyuk) i otdela sifilidologii (zav. - kandidat meditsinskikh nauk G.I.Popov) Kiyevskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. G.Ye.Koryakin)
(SKIN DISEASES, surg.
contraindic. & diag. errors)

NOGID, Lev Markovich; POPOV, G.I., kand. tekhn. nauk, retsenzent; BRONNIKOV, A.V., red.; SHAKHNOVA, V.M., red.

[Design of seagoing ships] Proektirovanie morskikh sudov. Leningrad, Izd-vo "Sudostroenie." Pt.1.[Methods of determining the elements of a proposed ship] Metodika opredeleniia elementov proektiruemogo sudna. 1964. 358 p. (MIRA 17:5)

POPOV, G.I., kand. tekhn. nauk, dots. (Moskva)

Approximate calculation of nonlinear vibrations of rods with respect to the action of longitudinal impulses. Issl. po teor. sooruzh. no.8:121-136 '59. (MIRA 12:12)
(Elastic rods and wires--Vibration)

POPOV, G.I., kand. tekhn. nauk dots. (Moskva)

Calculating nonlinear vibrations of systems having one degree of freedom with respect to the action of instantaneous and short-term forces. Issl. po teor. sooruzh. no.8:145-156 '59.
(MIRA 12:12)

(Structural frames--Vibrations)
(Strains and stresses)

SOV/49-59-8-13/27

AUTHOR: Popov, G. I.

TITLE: On the Position of the Epicentres of Tsumani Earthquakes

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 8, pp 1199-1201 (USSR)

ABSTRACT: The ocean region of the Kamchatka and Kuril Islands can be divided into five areas:
1 - narrow sloping sea platform,
2 - the trench, more than 6000 m deep,
3 - large north-west continental slope,
4 - East Kamchatka and Kuril Islands with intensive earthquakes,
5 - platform of Okhotsk Sea.
The second, third and fourth areas produce most of the earthquakes which are accompanied with tsumanis. Data of the latter were collected for the period starting in 1737 until 1952. A chart was prepared on which all the known tsumanis were plotted, reproduced in Fig 1. It shows the known tsumani epicentres 1 and the areas of their probable formation 2. Acknowledgments are expressed to Ye. F. Savarenskiy for his advice.

Card 1/2

POPOV, Gavriil Kharitonovich; GUROV, S., red.; YAKOVLEVA, Ye., tekhn. red.

[Electronic machines and economic administration] Elektronnye mashiny i upravlenie ekonomikoi. Moskva, Mosk. rabochii, 1963. 189 p. (MIRA 17:1)
(Electronic data processing--Industrial management)

CHUPRIKOV, Mikhail Konstantinovich, kapitan pervogo ranga; KRYLOV, Pavel Sergeyevich, kapitan pervogo ranga; ONISHCHENKO, Yevgeniy Yakovlevich, kapitan pervogo ranga; POPOV, Georgiy Ivanovich, inzh., kapitan vtorogo ranga; PRONICHKIN, A.P., red.; TARSKIY, Yu.S., kapitan vtorogo ranga, red.; SRIBNIS, N.V., tekhn. red.

[Reference book for a watch officer] Spravochnik vakhtennogo ofitsera. [By] M.K.Chuprikov i dr. Moskva, Voenizdat, 1963. 384 p. (MIRA 17:2)

POPOV, GEORGIY KONSTANTINOVICH

N/5
135.1
.P832

La Tscheka; mon empriosnnement et mes aventures a la Loubjanka No.2.
Paris, Plon (1926)
305 p.
Translated by Cecile Knoertzer.

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| 135.1 | N/5 |
| 917.135 | N/5 |
| 135.22 | N/5 |

DW

POPOV, G.K. [Popov, H.K.]

Role of the pain factor in the development of the motor response of the small intestine to intra-arterial and intravenous injections of certain chemical stimuli [with summary in English]. Fiziol. zhur. [Ukr.] 4 no.2:196-200 Mr-Ap '58. (MIRA 11:5)

1. Chelyabins'kiy medichniy institut, kafedra patofiziologii.
(PAIN) (INTESTINES)

POPOV, G.K.

Reflex reactions of the small intestine to stimulation of vasoreceptors in a dog. Fiziol.zhur. (Ukr.) 1 no.4:75-79 Jl-Ag '55. (MLRA 9:11)

1. Chelyabins'kiy medichniy institut, kafedra patologichnoi fiziologii
(INTESTINE, SMALL, physiology,
eff. of vasoreceptor stimulation in salt solution in dogs)
(BLOOD VESSELS, physiology,
eff. of stimulation of salt solution on small intestine in dogs)

Reflex reactions of the small intestine of the dog to vascular receptor stimuli. G. K. Popov (Med. Inst., Chelyabinsk). *Fiziol. Zhur., Akad. Nauk Ukr. R.S.R.* 1, No. 4, 75–8(Russian summary 78–9)(1955).—The purpose of the study and method of approach were the same as used by Dymshits. Tests were performed with 10 adult dogs under deep narcosis and also with one isolated intestinal loop. Upon the intra-arterial injection of a 20% soln. of NaCl there occurred in the intestines of the dog an immediate lowering of muscular tonus and a complete cessation of peristalsis which persisted for 30–90 sec., following which normal conditions returned. In the case of intravenous injection of the NaCl soln. the tonus of the intestines and their peristalsic activity increased for a prolonged period of time. It is concluded that the stimulation of arterial receptors is accompanied by body reaction brought about via the sympathetic nervous sytem, and the effects following the stimulation of the venous receptors are brought about via the parasympathetic branch of the vegetative nervous system. After severing of the abdominal nerves no reduction in the tonicity and no cessation in the intestinal peristalsis occurred following the arterial injection of the NaCl soln. After severing the vagus no stimulation of the venous receptors occurred and no changes in the functional manifestations of the intestines were observed following the intravenous injection of 20% soln. of NaCl. B. S. L.

PODVARKOV, Georgiy Aleksandrovich; SAVINSKIY, D.V., prof., red.; POPOV, G.Kh., red.; YERMAKOV, M.S., tekhn. red.

[Dmitrii Petrovich Zhuravskii, Russian statistician and economist] Russkii statistik-ekonomist Dmitrii Petrovich Zhuravskii. Pod red. D.V.Savinskogo. Moskva, Izd-vo Mosk. univ., 1961. 87 p. (MIRA 14:6)

(Zhuravskii, Dmitrii Petrovich, 1810-1856)

SMIRNOVA, T. V.; POPOV, G. L.

Synthesis of some ethers of glycerol. Zhur. VKHO 8 no.2:232-234 '63. (MIRA 16:4)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.

(Glycerol) (Ethers)

S/035/62/000/010/070/128
A001/A101

3.1720

AUTHOR: Popov, G. M.

TITLE: A new camera with high light-gathering power and spherical optics

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 71, abstract 10A515 ("Izv. Krymsk. astrofiz. observ.", 1962, v. 27, 309 - 317)

TEXT: A new system is described with relative aperture close to the limiting one (at extensive visual field). It is intended for studies of meteors, nebulae, zodiacal light, night sky glow, as well as for taking spectra of these objects. The system is a lump of transparent substance with refraction index exceeding that of the environment, bounded by three concentric spherical surfaces. A parallel beam is refracted in the first surface, is reflected from the second one which is coated with a mirror layer, and is focused on the third surface. The latter has a direct contact with a photoreceiver. Offaxis aberrations - coma, astigmatism, distortion - are absent, if the aperture diaphragm is situated in the plane passing through the center of

Card 1/2

POPOV, G. M.

[illegible] Ministers [illegible] the [illegible] of inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for [illegible] and 1951. [illegible], Moscow, No. [illegible], [illegible] Apr 1950;

| Name | Title of work | Submitted by |
|---|---|---|
| Popov, G. M. | "Particular Selection of Field Crops" | Leningrad Agricultural Institute |

[illegible] 7 July 50.

POPOV, Georgiy Mikhaylovich DECEASED (1905-1963) 1964

Crystalography
Mineralogy

obituary in Zap. Vses. min. ob-va 92 no.5, p613 1963
" Kristalografiia 8 no.5 p816 1963

Popov, G. M.

POPOV, G. M.

History of military-field therapy in Russia. Sovet. med. No. 7, July 50. p. 37-9

1. Of First Moscow Order of Lenin Medical Institute.

CLML 19, 5, Nov., 1950

POPOV, G. M. and RESHETNIKOV, P. P.

"Medical Service of Soviet Local Antiaircraft Defense," Kratkiye Osnovy Meditsinskoy Sluzhby Mestnoy Protivovozdushnoy Oborony Dlya Srednego Meditsinskogo Personala (Brief Manual of Fundamentals of the Medical Service of Local Antiaircraft Defense for the Instruction of Medical Personnel Belonging to the Middle Category), Medgiz, Moscow, 91 pp., 1951.

TABCON W - 21967, 19 Mar 52

POPOV, G. M.

Medicine

Fundamentals of medical work in the local anti-aircraft defense for the medical personnel of sub-professional level. Moskva, Medgiz, 1951

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED

POPOV, G.M., professor (Moscow)

Dissertations defended in the First Moscow Medical Institute from January to June 1953. Klin.med. 32 no.2:75-83 F '54. (MLRA 7:5)
(Medicine)