APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

DERBENEVA-UKHOVA, V.P.; BUSLAYEV, M.A.; KALMYKOV, Ye.S.; KON', Ya.S.; MARUASHVILI, G.M.; MASLOV, A.V.; NETSKIY, G.I.; PIRUMOV, Kh.N.; POKROVSKIY, S.N.; SELIVANOV, K.B.

Problems of the sanitary-epidemiological service in the control of parasitic diseases in various zones of the U.S.S.R. Med. paraz. i paraz.bol. 28 no.3:287-294 My-Je '59. (MIRA 12:9)
(PARASITIC DISEASES, prev. & control, in Russia (Rus))

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKIY, G. I., RAVDONIKAS, O. V., GAGARINA, A. V.

"Urgent problems of medical geography of parasitary and natural-nidi infections and their connection with the geographic landscape."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKIY, G. I., DAVYDOVA, M. S., RAVDONIKAS, O. V.

"The zoogeography of the ixodic ticks in the West Siberian lowland as a prerequisite of the epidemiological landscape zoning according to tick encephalitist and similar diseases." p. 33

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

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USSR/Zooparasitology. Ticks and Insects - Vectors of G
Causal Organisms. Ticks.

Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 104117

Author : Netskiy, G. I.; Taranyuk, G. S., Chudinov, P. I.

Inst : Omsk Scientific Research Institute of Epidemiology, Microbiology and Hygiene.

Title : Comparative Data on the Census and Its Seasonal Dynamics in the Ticks Dermacentor pictus Herm. and Dermacentor marginatus Sulz. on Virgin and Seeded Pastures under Conditions of the Southern Wooded-Steppe Area of Omskaya Oblast.

Orig Pub: Tr. omskogo n.-i. in-ta epidemiol., mikrobiol. i gigiyeny, 1957, No 4, 7-14

Abstract: The cultivation of virgin soils and the spread of cultivated pastures exert a great influence on the state of tick foci. Observations were

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NETSKIY, G. I. Doc Biol Sci -- (diss) "Basic natural factors of the epidemiology of malaria in the west-Siberian lowland." Omsk, 1957. 19 pp (Acad Med Sci USSR), 265 copies (KL, 43-57, 87)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKIY, G. I. and GAMARINA, A. V.

"Experience of Many Years in the Study of Gas Hemorrhagic [illegible]" [illegible] presented at the Interoblast' Scientific-Practical Conference [illegible] of the Urals, Siberia, and the Far East, [illegible]

Sum. No. [illegible]

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NETSKIY, G.I.

ALIFANOV, V.I.; NETSKIY, G.I.

Ixodes in Omsk Province. Med. paraz. i paraz. bil. no.3:270-271 Jl-S '54. (MLRA 8:2)

1. Iz parazitologicheskoy laboratorii Omskogo instituta epidemiologii, mikrobiologii i gigiyeny (dir. instituta G.V.Kornilova) i Omskoy oblastnoy protivotulyaremiynoy stantsii (nachal'nik stantsii O.V. Ravdonikas).

(TICKS,
Ixodes, distribution in Siberia)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKIY, G.I.

[redacted]

Effect of temperature of the Western Siberian Lowland on northern limits of the areal, on winging time, and intensity of incubation of successive generations of Anopheles maculipennis. Med. paraz. i paraz. bol. no.3:226-230 Jl-S '54. (MLRA 8:2)

1. Iz parazitologicheskoy laboratorii Omskogo instituta epidemiologii, mikrobiologii, i gigiyeny (dir. instituta G.V.Kornilova) i Omskoy oblastnoy protivomalyariynoy stantsii.

(MOSQUITOES,
Anopheles maculipennis, breeding in Siberia)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKAYA, A.I.

Classification of Paleozoic ostracods. Paleont. zhur. no.2:41-45 '59. (MIRA 13:1)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut.
(Ostracoda, Fossil)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

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NETSKAYA, A.I.

New species and genera of Ordovician and Silurian Ostracoda from the northwestern part of the Russian Platform. Trudy VNIGRI no.115:349-379 '58. (MIRA 11:10)
(Russia, Northwestern--Ostracoda, Fossil)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

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ABUSHIK, A.F.; NETSKAYA, A.I.; POZNER, V.M.; SHNEYDER, G.F.; TIL'KINA, K.F.; SAMOYLOVA, R.B.; SMIRNOV, R.F.; POLENOVA, Ye.N.; MANDEL'SHTAM. M.I.; LYUBIMOVA, P.S.

New genera and species of Ostracoda. Trudy VNIGRI no.115:232-299 '58. (MIRA 11:10)

(Ostracoda, Fossil)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKAYA, A.I.; IVANOVA, V.A.

The first Ostracoda finds in the lower Cambrian of eastern Siberia. Dokl.AN SSSR 111 no.5:1095-1097 D '56. (MLRA 10:2)

1. Paleontologicheskiy institut Akademii nauk SSSR. Predstavleno akademikom S.I. Mironovym.
(Siberia, Eastern--Ostracoda, Fossil)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKAYA, A. I.

"Ostracoda of the Ordovician of the Northwestern Part of the Russian Platform and Their Stratigraphic Significance." Cand Geol-Min Sci, All-Union Sci-Res Inst of Geological Prospecting for Petroleum, Leningrad, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSKAYA, A. I.

New ostracod species from Ordovician deposits in the northwestern part of the Russian Platform. Trudy VNIGRI no.60:217-232 '52. (Baltic States--Ostracoda, Fossil) (MLRA 10:8)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

MATCHANOV, N.M.; NETSETSKIY, M.A.

Veterinary medicine in the Uzbek S.S.R. Veterinariia 35 no.5:124-128 My '58. (MIRA 12:1)

1. Nachal'nik upravleniya veterinarii Ministerstva sel'skogo khozyaystva Uzbekskoy SSR (for Matchanov). 2. Uzbekskiy nauchno-issledovatel'skiy veterinarnyy institut (for Netsetskiy).
(Uzbekistan--Veterinary medicine)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSETSKIY, Mikhail Aleksandrovich, zasluzhenyy veterinarnyy vrach Uzbekskoy SSR; ZHABSKIY, V.P., redaktor; RAKHMATULLIN, F.tekhredaktor.

[Veterinary hygiene and the diseases of cattle] Zoogigiena i mery bor'by s bolezniami krupnogo rogatogo skota. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1956. 70 p. (MLRA 10:6)
(Cattle--Diseases and pests)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

RETSETSKIY, M. A.

27960. Zadachi pod"yema obshchestvennogo produktivnogo zhivotnovodstva v kolkhozakh uzbekistana. Sots. Sel. Khoz-vo uzbekistana, 1946, No. 9, S. [illegible]

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

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NETSETSKIY, A.M., starshiy nauchnyy sotrudnik

Disinfecting livestock buildings of acarians as a preventive method against theileriasis. Veterinariia 38 no.8:67-68 Ag '61 (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut veterinarii Uzbekskoy SSR.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

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NETSETSKIY, A.M.

Acaricidal characteristics of chlorophos dust. Veterinariia 40 no.6:79-80 Je '63. (MIRA 17:1)

1. Uzbekskiy nauchno-issledovatel'skiy veterinarnyy institut.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

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LI, P.N. (Candidate of Veterinary Sciences), NETSETSKIY, A.M., YENILEYEVA, N.Kh. and TURSUNOV, P.T. (Scientific Workers), ORLOV, V.P. (Laboratory Technician, Institute of Veterinary Medicine, Uzbek Academy of Agricultural Sciences).

"Use of Phenoformforte [Fenoform-forte] against tick-carriers of cattle Haemosporidia..."
Veterinariya, vol. 39, no. 3, March 1962 pp. 80

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

BOGORODITSKIY, A.V.; NETSETSKIY, A.M.

Testing the conjunctival method of hemosporidin injection in cattle piroplasmosis. Trudy Uz.nauch.-issl.inst.vet. 14:137-138 '61. (MIRA 16:2)

(Piroplasmosis) (Hemosporidin)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSETSKY, A.M.; BOGORODITSKIY, A.V.

Testing "thiargen" in piroplasmosis and Hemosporidia infection of cattle. Trudy Uz.nauch.-issl.inst.vet. 14:135-136 '61. (MIRA 16:2)

(Piroplasmosis) (Hemosporidia) (Thiargen)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

AKHMEDBABAYEV, M.Kh.; ARIFDZHANOV, K.A.; BELOUSOV, N.A.; BELYAKOV, S.P.; ZOTOV, V.G.; ISAYEVA, Z.D.; MAKHMUDOV, I.A.; ISHCHENKO, F.S.; KRASIL'NIKOV, Ya.A.; NIKOL'SKIY, I.P.; NETSETSKIY, A.M.; PERGAT, F.F.; PAVLOVSKAYA, M.D.; SAMSONOV, L.S.; POLIZHAYEV, A.I.; SMIRNOV, F.Ye.; SABININ, M.N.; SHUTYAYEV, N.A.; CHIZHIK, V.I.; KARPENKO, P.M.; IMEROV, A.I.

Mikhail Aleksandrovich Nenetskii; obituary. Veterinariia 37 no.10:94 O '60. (MIRA 15:4)
(Nenetskii, Mikhail Aleksandrovich, 1899-1960)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSETSKIY, A. M., TSELISHEVA, L. M. and GALUZO, I. G.

"Ticks (ixidides) in Kazakhstan and Centaral Asian Republics of the USSR."

report submitted at Fourth International Regional Conference of Asian Countries on Parasitic Diseases in Animals, 31 May to 7 June 1958, Alma Ata, Kazakh SSR.

Netsetskiy, A. M. - Senior Sci. Worker Uzbek Res. Veterinary Inst, Tashkent USSR

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81993

S/120/60/000/03/026/055
E041/E521

Instrument for Automatically Recording the Number of Pulses when the Counting Rate is Small

the crystal oscillator, using a 6N2P valve, the instrument uses transistors (P14) throughout, operated from an 18 V supply and consuming 80 mA. The measurement is made cyclically in three phases: count, record and reset. Fig 3 shows a result, from a EPP-09 recorder, of the gamma-ray spectrum of Hf^{181} obtained using a luminescent spectrometer and single-channel differential discriminator. The accuracy is 1-2%. There are 2 figures and 1 English reference.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Engineering Physics Institute, Ac.Sc., USSR)

SUBMITTED: April 4, 1959

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NETSETSKIY, A.M.

21.5300

81993

S/120/60/000/03/026/055
E041/E521

AUTHORS: Netsetskiy, A.M. and Sumbayev, O.I.

TITLE: Instrument for Automatically Recording the Number of Pulses when the Counting Rate is Small

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No 3, pp 93-95

ABSTRACT: Counting rate meters which depend on the charging of capacitors are unsuitable when the pulse rate is less than 1 per minute. The principle exploited here is described in detail in* Ref 1 and consists of a multi-position switch controlling pulses as in Fig 1. A set of pulse trains at repetition frequencies f, 2f ... 64 f are normally inhibited by the conducting halves of a set of binary counter stages. This counter is driven by the pulses to be counted. If for example 7 pulses arrive, then trains f, 2f and 4f are released and over unit time 7f pulses appear at the output. These go to a standardizer where they are converted to a fixed amount of electricity per pulse and the voltage across R is recorded on a self-balancing potentiometer. Apart from

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* J. Millman, H. Taub, Pulse and Digital Circuits, McGraw-Hill, 1956, pp 421-424

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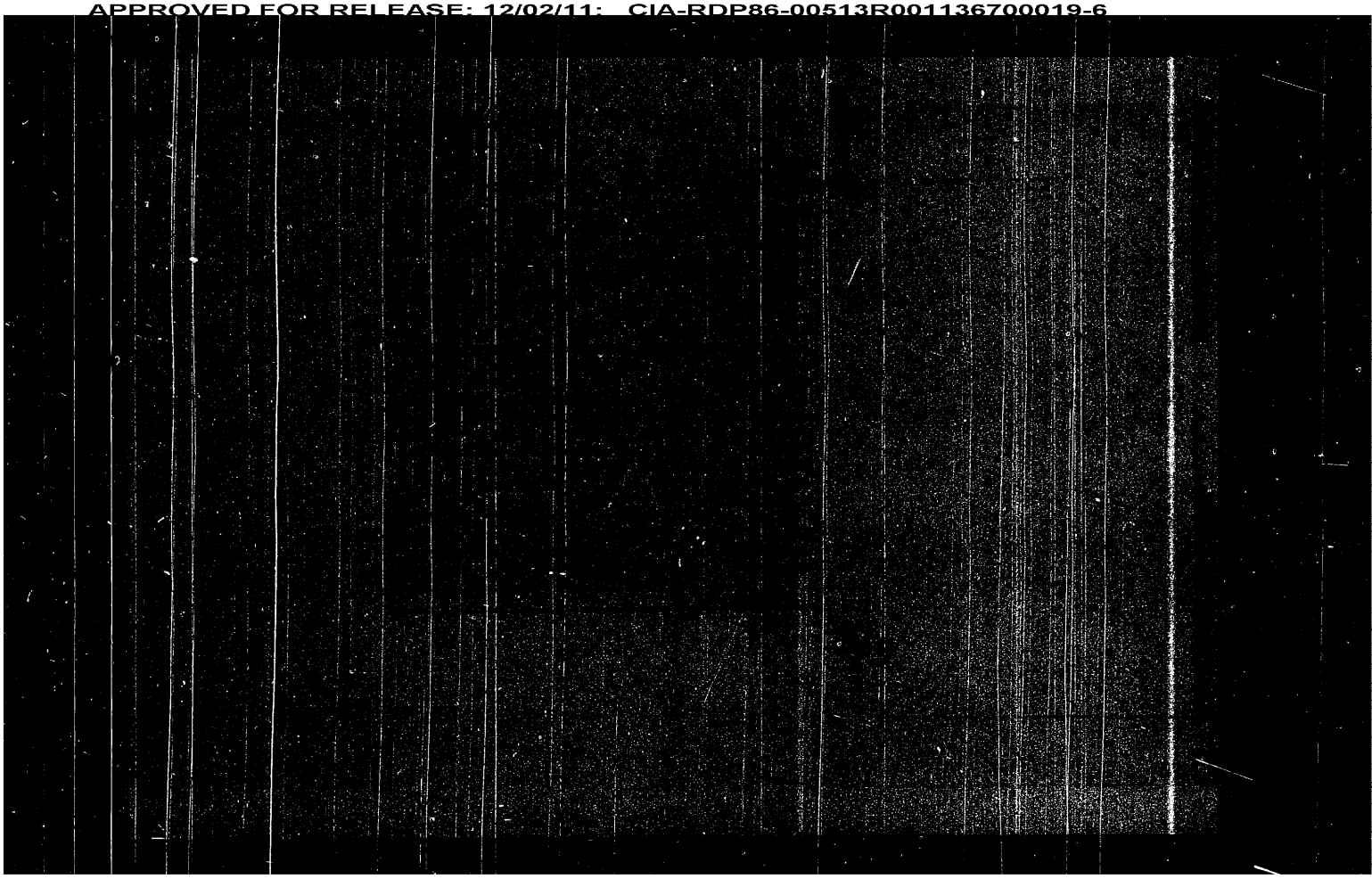

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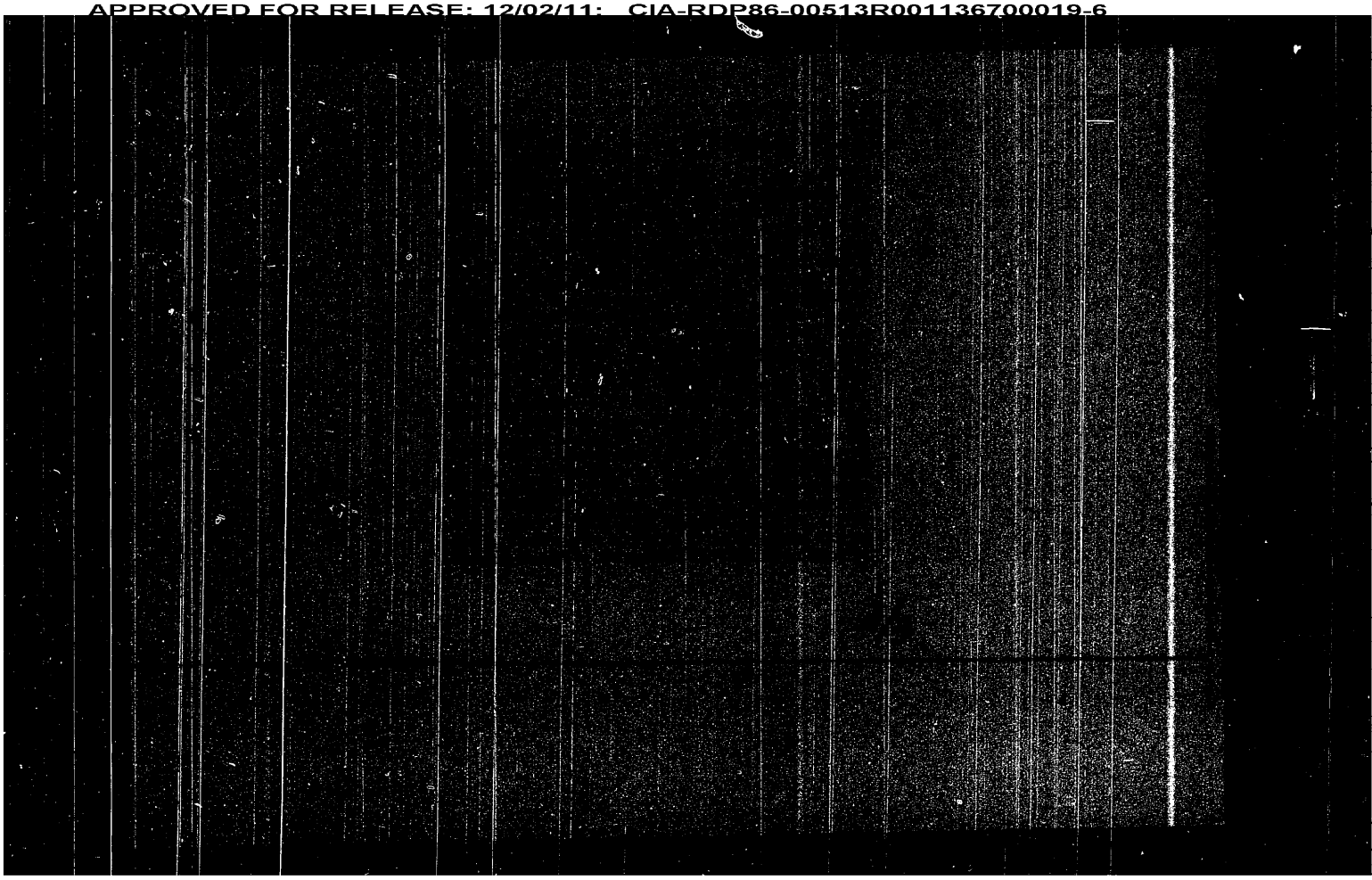

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NETSEPLYAYEV, S.V., aspirant

Methods for diagnosing the carriage of leptospira in swine.
Veterinariia 41 no.5:[illegible]-28 My '64 (MIRA 18:5)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

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NETSEPLYAYEV, M.I.

Study of dust formation and development of dust-control measures in workings with conveyor haulage of coal. Vop. bezop. v ugol'. shakh. 13:186-204 '62. (MIRA 16:5)

(Conveying machinery) (Mine dusts)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSENKO, Aleksandr Vasil'yevich

[Correlation between general and specific economic laws in a socialist society] Sootnoshenie obshchikh i spetsificheskikh ekonomicheskikh zakonov v sotsialisticheskom obshchestve. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn.znanii RSFSR, Leningr.otd-nie, 1959. 36 p. (MIRA 13:3)
(Economics)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

SOV/3-58-11-17/38

AUTHORS: Netsenko, A.V., Candidate of Economic Sciences, and El'yashova, L.L., Assistant

TITLE: In This Way the Ability of Creative Thinking is Being Developed (Tak razvivayetsya umeniye tvorcheski myslit')

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 11, pp 45 - 49 (USSR)

ABSTRACT: The Chair of Political Economy of the Leningrad Polytechnical Institute is devoting much consideration to seminar exercises, particularly to the method in which they are conducted. The main purpose of a seminar is to arouse in youth love for science, inquisitiveness, ability to think independently and to understand the complicated phenomena of social life. For this reason, the Chair strives to ensure that the students comprehend well the material they are dealing with, that they know how to prove the correctness of the theses expressed, can reply to questions for which there are no ready answers in the textbook, apply the matter they have learned to events of international and domestic life, etc. The authors then go on to explain how a seminar can be made creative. For this purpose they quote an ex-

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SIL'VERSTOV, V.B.; NEYSENGEVICH, M.R.

Introduction of rats and mice by airplanes to the airports of the U.S.S.R. and the possibility of their contact with the local rodent population. Zool. zhur. 43 no.7:1056-1061 '64.

(MIRA 17:12)

1. Central Anti-Plague Observation Station, Ministry of Public Health of the U.S.S.R. (Moscow).

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RUMYANTSEVA, A.V.; NETSEGEVICH, M.P.

Isolation of the causative agent of plague from the mouse mite Laelaps algericus Hirst (Parasitiformes, Gamasides). Zool. zhur. 39 no.11:1732-1733 N '60. (MIRA 14:1)

1. Central Observation Station of the U.S.S.R. Ministry of Public Health, Moscow.
(Mites as carriers of disease)
(Ural Valley--Plague) (Emba Valley--Plague)

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NETSENGEVICH, M.R.

Fleas of wild rodents in cities. Zool.zhur. 38 no.1:82-87 Ja '59. (MIRA 13:4)

1. Moscow Observation Station, Ministry of Health of the U.S.S.R. (Moscow--Fleas) (Parasites--Rodentia)

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NETSENGEVITCH, M. R., KOVALEVA, R. V., [illegible], A. V., [illegible], [illegible], SIL'VESTROVA, T. N., STARIKOV, A. E., GERSHKOVITCH, [illegible]

"New developments in the study of the natural focus of the plague in the northeastern Caspian region." p. 239

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Antiplague Observation, Moscow

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETSENGEVICH, M.R.

Toxic effect of DDT on the rat flea Xenopsylla cheopis; laboratory data [with summary in English]. Med.paraz. i paraz.bol. 26 no.1: 34-39 Ja-F '57. (MLRA 10:6)

1. Iz Moskovskoy nablyudatel'noy stantsii Ministerstva zdravookhraneniya SSSR (nachal'nik B.N.Pastukhov)

(FLEAS
Xenopsylla cheopis, eff. of DDT)
(DDT, eff.
on rat flea, Xenopsylla cheopis)

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23145
Z/045/61/000/002/001/001
D231/D304

The influence of inelastic...

τ = tangential stress. There are 1 figure and 12 references: 7 Soviet-bloc and 5 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: S. Timoshenko Phil. Mag. 41 (1921) p 744; D. Bancroft Phys. Rev. 59 (1941) p. 588; G. E. Hudson Phys. Rev. 63 (1943) 46; R. M. Davies Phil. Trans. A. 240 (1948) p 375.

ASSOCIATION: Katedra fyziky Slovenskej vysokej skoly tekhnickej v Bratislave (Department of Physics, Slovak Technical University)

SUBMITTED: June 15, 1960

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23145
Z/045/61/000/002/001/001
D231/D304

The influence of inelastic...

Here the inelastic internal resistance causes a decrease in the velocity. Taking a value of 0.2 for ψ, the correcting factor becomes according to Eq. (22) [Abstracter's note: Sorokin's old hypothesis] ≐ 1.000 14; comparing that with the result obtained according to the new hypothesis where one obtains the correcting factor ≐ 0.999 987, it is clear that the decrease in velocity is only approximately 0.0013% of the speed; this value is practically negligible except in the case of materials with a high value of ψ (e.g. ferroconcrete). The author gives the following glossary of symbol values: ψ = coefficient of internal energy absorption; $c_0 = \sqrt{\frac{E}{s}}$; E = modulus of elasticity (in tension); s = specific mass of bar material; $k = \sqrt{\frac{I}{S}}$; I = moment of inertia; S = sectional area of the bar; t = time; ε = relative lengthening (under tension); γ = relative movement (under compression); x = right angle coordinate referring to the equilibrium position of the bar; y = deflection of single points from axis; G = modulus of elasticity (compression); c = wave velocity (bending waves); σ = normal stress;

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and

$$(u+iv)^2 c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + (u+iv)\left[\frac{\partial^2 y}{\partial t^2} - k^2\left(1+\frac{E}{\mu G}\right)\frac{\partial^4 y}{\partial x^2 \partial t^2}\right] + \frac{k^2 E}{c_0^2 \mu G}\frac{\partial^4 y}{\partial t^4} = 0. \qquad (35)$$

the dependent wave velocity is given by expressions

$$c = \frac{2\pi c_0 k}{\lambda}\left[1+\left(\frac{\psi}{4\pi}\right)^2\right]^{-\frac{1}{2}}. \qquad (30)$$

$$c = c_0\left[1+\left(\frac{\lambda}{2\pi k}\right)^2\right]^{-\frac{1}{2}} \cdot \left[1+\left(\frac{\psi}{4\pi}\right)^2\right]^{-\frac{1}{2}}. \qquad (34)$$

and

$$c = \frac{c_0}{\sqrt{2}}\sqrt{1+\frac{\mu G}{E}\left[1+\left(\frac{\lambda}{2\pi k}\right)^2\right] - \sqrt{\left\{1+\frac{\mu G}{E}\left[1+\left(\frac{\lambda}{2\pi k}\right)^2\right]\right\}^2 - 4\frac{\mu G}{E}}} \cdot \left[1+\left(\frac{\psi}{4\pi}\right)^2\right]^{-\frac{1}{2}}. \qquad (38)$$

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hypothesis (Ref. 12: K teorii vnutrennego treniya pri kolebaniyakh uprugikh sistem (On the Theory of Internal Friction During Oscillations of Elastic Systems) Moscow 1960), $\sigma = (u + iv) E\varepsilon$ (10a) and $\tau = (u + iv) G\gamma$ (11a)

where

$$u = \frac{1 - \left(\frac{\psi}{4\pi}\right)^2}{1 + \left(\frac{\psi}{4\pi}\right)^2}, \quad v = \frac{\frac{\psi}{2\pi}}{1 + \left(\frac{\psi}{4\pi}\right)^2}. \tag{12}$$

If one expresses the inelastic internal resistance according to this new theory as

$$(u + iv)\, c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} = 0. \tag{28}$$

$$(u + iv)\, c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} - k^2 \frac{\partial^4 y}{\partial x^2 \partial t^2} = 0. \tag{32}$$

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and

$$c = \frac{c_0}{\sqrt{2}}\sqrt{1 + \frac{\mu G}{E}\left[1 + \left(\frac{\lambda}{2\pi k}\right)^2\right] - \sqrt{\left\{1 + \frac{\mu G}{E}\left[1 + \left(\frac{\lambda}{2\pi k}\right)^2\right]\right\}^2 - 4\frac{\mu G}{E}}} \cdot \qquad (25)$$

$$\cdot\sqrt{\frac{1 - \frac{5}{4}\left(\frac{\psi}{2\pi}\right)^2}{1 - \frac{3}{2}\left(\frac{\psi}{2\pi}\right)^2 + \frac{1}{16}\left(\frac{\psi}{2\pi}\right)^4}} \qquad (25)$$

in accordance with Ye. S. Sorokin (Ref. 3: Metod ucheta neuprugogo soprotivleniya materiala pri raschete konstruktsiy na kolebaniya Sbornik TsNIPS, 1951), where

$$\sigma = \left(1 + i\frac{\psi}{2\pi}\right) E\varepsilon, \ (10) \text{ and } \tau = \left(1 + i\frac{\psi}{2\pi}\right) G\gamma \ (11)$$

In these expressions the inelastic internal resistance causes a slight increase in the wave velocity. According to Sorokin's new

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The influence of inelastic...

the authors obtain

$$\left[1 - \left(\frac{\psi}{2\pi}\right)^2 + 2i\,\frac{\psi}{2\pi}\right] c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \left(1 + i\,\frac{\psi}{2\pi}\right)\frac{\partial^2 y}{t} - \left(1 + i\,\frac{\psi}{2\pi}\right) k^2 \left(1 + \frac{E}{\mu G}\right) \frac{\partial^4 y}{\partial x^2 \partial t^2} + \frac{k^2}{c_0^2}\,\frac{E}{\mu G}\,\frac{\partial^4 y}{\partial t^4} = 0. \quad (22)$$

the dependence of the velocity on the wavelength being expressed in

$$c = \frac{2\pi c_0 k}{\lambda}\sqrt{\frac{1}{2}\left[1 + \sqrt{1 + \left(\frac{\psi}{2\pi}\right)^2}\right]}. \quad (17)$$

$$c = c_0\left[1 + \left(\frac{\lambda}{2\pi k}\right)^2\right]^{-\frac{1}{2}} \sqrt{\frac{1}{2}\left[1 + \sqrt{1 + \left(\frac{\psi}{2\pi}\right)^2}\right]}. \quad (21)$$

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(Theory of Sound) Moscow-Leningrad 1940) and also by S. Timoshenko (Ref. 6: Pružnost a pevnost, Prague 1951) essentially in the form of equation

$$c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} - k^2 \frac{\partial^4 y}{\partial x^2 \partial t^2} = 0. \qquad (4)$$

Taking the inelastic internal resistance into consideration the authors obtain equation

$$\left(1 + i\frac{\psi}{2\pi}\right) c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} = 0. \qquad (14)$$

derived in accordance with Ref. 1 (Op. cit) and corresponding to Eq. (1) and if one proceeds according to Ref. 2 (Op. cit)

$$\left(1 + i\frac{\psi}{2\pi}\right) c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} - k^2 \frac{\partial^4 y}{\partial x^2 \partial t^2} = 0. \qquad (19)$$

is obtained corresponding to Eq. (4); on solving the equation, the

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16,7300

AUTHORS: Náter, Ivan; Horváthová, Soňa and Netschevá, Drahomila (Bratislava)

TITLE: The influence of inelastic internal resistance on the velocity of bending waves in elastic bars

PERIODICAL: Matematicko - fyzikálny časopis, no. 2, 1961, 131-145

TEXT: The mathematical investigation of wave velocity in elastic bars has been undertaken at several levels. The simplest theory, neglecting the internal resistance, has been given by G. Kol'skiy (Ref. 1: Volny napryazheniya v tverdykh telakh (Stress Waves in Solid Bodies) Moscow 1955 expressed in the differential equation

$$c_0^2 k^2 \frac{\partial^4 y}{\partial x^4} + \frac{\partial^2 y}{\partial t^2} = 0. \qquad (1)$$

Kol'skiy is also quoted as having prepared graphs [Abstracter's note: Not given in this paper] which are compared with the results of the more exact theory given by Rayleigh (Ref. 2: Teoriya zvuka

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NETSCH, Julius

Combustion of wood waste in S 60 box steam boilers. Energetika Cz 11 no.2:100 F '61.

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SHERESHEVSKIY, M.G., prof.; VAGANOV, B.S., dots.; VORONOV, K.G., dots.; ROZENBERG, M.G.; ZLOTNIKOV, A.L., dots.[deceased]; GRYAZNOV, E.A.; GORYUNOV, F.A.; PETRUSOV, A.A., kand. ekon. nauk; YEPIFANOV, M.P., red.; YEREKHOVA, Ye.A., tekhn. red.

[Organization and technique of the foreign trade of the U.S.S.R. and other socialist countries]Organizatsiia i tekhnika vneshnei torgovli SSSR i drugikh sotsialisticheskikh stran; uchebnoe posobie pod red. B.S.Vaganova. Moskva, 1963. 343 p. (MIRA 16:9)

1. Moscow. Institut mezhdunarodnykh otnosheniy.
(Communist countries--Commerce)
(Russia--Commerce)

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NETRUSOV, A., kand.ekonom. nauk

Development of economic relations among the countries with different social systems. Vnesh. torg. 41 no.10:7-15 '61. (MIRA 14:9)
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PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENOV, Yu.M.; MILONOV, V.S.; KISVYANTSEV, L.A.; TELEGIN, Ya.I.; POTAPOV, V.I.; NETRUSOV, A.A.; ZYKOV, A.A.; KUDIN, B.M.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A; SHALASHOV, V.P.; VISYANIN, Yu.L.; KRASNOV, L.V.; PUSENKOV, N.N.; IVANOV, N.I., red.; ZOLOTAREV, V.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; KOROLEVA, A., mladshiy red.; NOGINA, N., tekhn. red.

[Economic development of the people's democracies; survey for 1959] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1959 god. Pod red. N.I.Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1960. 305 p. (MIRA 14:6)

1. Moscow. Nauchno-issledovatel'skiy kon"yukturnyy institut.
(Europe, Eastern--Economic conditions)

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NETRUSOV, A.A.

Development of chemical industries in the Chinese People's Republic. Biul.tekh.-ekon.inform. no.1:75-78 '59. (MIRA 12:2)

(China--Chemical industries)

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ZOLOTAREV, V.I.; PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENEV, Yu.M.; KISVYANTSEV, L.A.; SHVETSOV, N.I.; TELEGIN, Ye.I.; ZYKOV, A.A.; SENIN, V.P.; NETRUSOV, A.A.; GAVRILOV, V.V.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.H.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; KOSONOGOV, L.A.; PUSENKOV, N.N.; SLADKOVSKIY, M.I., red.; IVANOV, N.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development in the people's democracies; review for 1958] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1958 g. Pod red. M.I.Sladkovskogo i dr. Moskva, Izd-vo sotsial'-no-ekon.lit-ry, 1959. 358 p. (MIRA 13:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut. (Communist countries--Economic conditions)

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Economic cooperation of the Chinese People's Republic with the European people's democracies [with English summary in insert]. Vnesh.torg. 28 no.10:2-9 '58. (MIRA 11:12)
(China--Foreign economic relations--Europe, Eastern)

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NETRUSOV, A.A.

Petroleum industry in China. Biul.tekh.-ekon.inform. no.10: 80-82 '58. (MIRA 11:12)
(China--Petroleum industry)

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ZOLOTAREV, V.I.; PEKSHEV, Yu.A.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVYANTSEV, L.A.; SHVETSOV, N.I.; TELEGIN, Ye.I.; POTAPOV, V.I.; KISVYANTSEV, L.A.; ZYKOV, A.A.; METRUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, F.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

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1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut. (Economic conditions)

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KONTOROVICH, P.G.; KURBATOV, V.A. (Sverdlovsk); GUTMAN, A.Ya. (Moskva); DEYNEGA, A.V. (Kiyev); ISACHKIN, B.Ya. (Penza); NETRONINA, N.G. (Tambov); PONOMAREV, V.S. (Izhevsk); SELIVANOV, D.P. (Korsun'-Shevchenkovskiy, Cherkasskaya obl.); KOLIKOV, A.F. (Kalinin); SHOR, Ya.A. (Moskva); IVANOV, M.I. (Tula)

Discussion of the new mathematics curricula. Mat. v shkole no.3: 4-20 My-Je '59. (MIRA 12:9)

(Mathematics)

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KABANOV, S.Ye.; GAIKYUK, N.S.; NETROHUNA, K.G.

Treatment at Sochi-Mastesta Health Resort of some chronic diseases of the liver, gallbladder and biliary tract with indications for hydrogen sulfide bath therapy. Vop. kur., fizioter. i lech. fiz. kul't. 29 no.4:367-369 Jl-Ag '64. (MIRA 18:9)

1. Sochinskiy sanatoriy imeni Ya. Fabritsiusa (nachal'nik N.N. Chukalin).

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ANDRONOV, V.N.; METRONIN, V.I.

Investigating the interaction of molten iron with aluminosilicate refractories. Trudy LPI no.225:156-167 '64. (MIRA 17:9)

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NETRIBIN, I. M.

Netribin, I. M. "Soils of the central portion of the Crimean steppe." Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev. Moscow, 1956. (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 98-109; 111.

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NETREBSKIY, F., brigadir, BEDNENKO, V., gornyy master

What kind of assignment system? Mast.ugl. 9 no.6:5 Je '60.
(MIRA 13:7)

1. Zaboyshchitskaya brigada kommunisticheskogo truda shakhty "Kalinovskaya-Vostochnaya" Stalinskogo sovnarkhoza (for Netrebskiy).
2. Shakhta "Abashevskaya - 2" kombinata Kuzbassugol' (for Bednenko)
(Coal mines and mining--Management)

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ACC NR: AP6030729

the stress tensor is positive. Orig. art. has: 5 figures and 11 equations.

SUB CODE: 13/ SUBM DATE: 05May66/ ORIG REF: 001/ OTH REF: 003

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ACC NR: AP6030729

SOURCE CODE: UR/0055/66/000/004/0109/0116

AUTHOR: Netrebko, V. P.

ORG: Department of the Theory of Elasticity, Moscow State University (Kafedra teorii uprugosti, Moskovskiy gosudarstvennyy universitet)

TITLE: Photoplastic method for solving plane elasto-plastic problems

SOURCE: Moscow. Universitet. Vestnik. Seriya fiziki i khimii, no. 4, 1966, 109-116

TOPIC TAGS: stress analysis, mechanical stress, double refraction

ABSTRACT: The authors developed a method for solving plane elasto-plastic problems by a photoplastic procedure using celluloid as the material for the model. Since celluloid is known to exhibit creep on application of a load, a constant rate of loading was applied to eliminate the effect of creep. The plasticity was determined by the measurement of the dispersion of double refraction. The stress (σ) vs strain (ε) curves were found to be similar for all rates of loading not exceeding 0.2 kg/cm^2 min, and could be represented with one curve in dimensionless coordinates $\frac{\sigma}{\sigma_s}$ vs $\frac{\varepsilon}{\varepsilon_s}$, where σ_s and ε_s are stress and strain at the yield point, respectively. By establishing the relationship between the double refraction and the mechanical quantities, the principal stresses and the strain intensities in the plastic range can be established. The method is applicable in the region where the first invariant of

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NETREBKO, V.P.

Calculation methods in photoplasticity. Vest. Mosk. un. Ser. 1: Mat., mekh. 18 no.4:64-69 Jl-Ag '63.
(MIRA 16:8)

1. Kafedra teorii uprugosti Moskovskogo universiteta.

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tensile force L and an internal pressure p, and the following quantities were measured: the axial elongation, the radial elongation; and the differences in the optical paths of monochromatic light of wavelengths—435.8 and 690.7 mμ respectively. From these data, the principal stresses σ_1 and σ_2 and also the intensity of deformations e_i and the deformation at the yield point e_s are calculated in terms of the dispersion of the double refraction D. The results are presented in the form of graphs, and hence it is concluded that D may be used as a measure of the stress-strain state in the plastic region and that the fundamental laws of small elastic-plastic deformations under simple loading hold for celluloid. There are 9 figures.

ASSOCIATION: Kafedra teorii uprugosti (Department of the Theory of Elasticity)

SUBMITTED: September 21, 1962

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

AUTHOR: Netrebko, V. P. S/055/63/002/001/004
D251/D308

TITLE: Verification and improvement of the fundamental laws

PERIODICAL: Moscow. Universitet. Vestnik. Seriya I. Matematika, Mekhanika, no. 2, 1963, 53-59

TEXT: Tests were carried out to verify the results of the author's earlier work on the photoplastic properties of celluloid (Vestn. Mosk. un-ta, ser. matem., mekh., no. 2, 1962, 53-58). Test specimens were prepared from sheet celluloid, wrapped around a form, heated to 80° in a water-bath and subsequently cooled to form thin-walled tubes, the open edges being glued with acetone. The dimensions of the tubes thus formed were: diameter--60 ± 0.05 mm, thickness of the wall--1 ± 0.015 mm, length of the working part--160 mm, breadth of seam--4.5 - 5 mm. The specimens were kept on the form for 12 - 14 days and then subjected to

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S/055/62/000/002/003/003
D237/D301

AUTHOR: Netrebko, V. P.

TITLE: Fundamental relations of photoplasticity for celluloid under plane state of stress

PERIODICAL: Moscow. Universitet. Vestnik. Seriya I. Matematika, Mekhanika, no. 2, 1962, 53-58

TEXT: In his earlier work, the author found the relation between the stress and optical properties in celluloid under monoaxial extension. Here, on the basis of the experiments with biaxial extension of a plate under proportional load, it is shown that the relations obtained previously are true in the case of a plane stressed state. The experimental details are given, data obtained are presented graphically, and the following conclusions are reached: (1) The fundamental law of photoplasticity for celluloid under the plane state of stress can be expressed by: $m_1 - m_2 + ND = A(\sigma_1 - \sigma_2)$, where $m_1 - m_2 =$

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NETREBKO, V.P.

Dispersion of birefringence in celluloid and its uses in photoplasticity [with summary in English]. Vest. Mosk. un. Ser. 1: Mat., mekh. 16 no.3:53-61 My-Je '61. (MIRA 14:7)

1. Kafedra teorii uprugosti Moskovskogo universiteta.
(Celluloid) (Plastics) (Photochemistry)

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NETREBKO, V.P.

Method for solving problems in photoplasticity. Vest.Mosk. un. Ser.1; mat., mekh. 16 no.1:33-37 Ja-F '61. (MIRA 14:3)

1. Kafedra teorii uprugosti Moskovskogo universiteta.
(Plasticity) (Photoelasticity)

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0111/0222

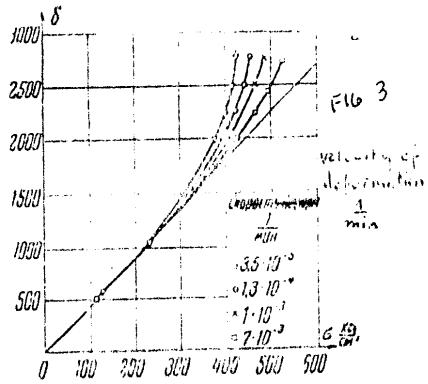

Fig 3

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88413

S/055/60/000/006/004/008
0111/0222

Photo - Elastic - Plastic Properties of Celluloid

$$\sigma_1 - \sigma_2 = \frac{m_2 B_1 - m_1 B_2}{A_2 B_1 - A_1 B_2}$$

$$\varepsilon_1 - \varepsilon_2 = \frac{m_1 A_2 - m_2 A_1}{A_2 B_1 - A_1 B_2}$$

There are 6 figures, 1 table and 7 references : 1 Soviet, 2 Japanese, 1 German, 1 English and 2 American.

ASSOCIATION: Kafedra teorii uprugosti (Chair of Theory of Elasticity)

SUBMITTED: December 21, 1959

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83413
S/055/60/000/006/004/008
C111/C222

Photo - Elastic - Plastic Properties of Celluloid

One can see that δ is not proportional to the tension σ. It is proved experimentally that there exists a relation of the form

$$\delta = A'(\sigma_1 - \sigma_2) + B'(\varepsilon_1 - \varepsilon_2)$$ in the elastic and plastic region for celluloid.

For a practical application of this relation the author proposes : Celluloid in the state of tension shall be lighted by 2 kinds of light ; then one obtains

$$\delta_1 = m_1 \lambda_1 = A_1'(\sigma_1 - \sigma_2) + B_1'(\varepsilon_1 - \varepsilon_2)$$

$$\delta_2 = m_2 \lambda_2 = A_2'(\sigma_1 - \sigma_2) + B_2'(\varepsilon_1 - \varepsilon_2)$$

where $\delta_1 \neq \delta_2$; m_1 , m_2 are the orders of the strips of interference ; λ_1 , λ_2 are the wave lengths. Herefrom it follows

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88413

S/055/60/000/006/004/008
C111/C222

16.7300

AUTHOR: Netrebko, V.P.

TITLE: Photo - Elastic - Plastic Properties of Celluloid

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I. Matematika, mekhanika, 1960, No. 6, pp. 60 - 65

TEXT: The author investigates the dependence on tensions and deformations of the double refraction of the light arising in the celluloid for elasto-plastic deformations. The experiments were carried out for plane tests of celluloid of thickness 5 mm for a homogeneous dilatation. Figure 3 shows the dependence of the berefringence δ on the velocity of deformation.

(See card 4/4 for fig. 3)

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S/055/60/000/004/002/004
C111/C333

Torsion of Bars With Entering Angles

shows that the set up chosen for the stress functions is justified. There are 2 figures, and 2 Soviet references.

ASSOCIATION: Kafedra teorii uprugosti (Chair of Elasticity Theory)

SUBMITTED: May 16, 1959

Card 2/2

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

S/055/60/000/004/002/004
C111/C333

AUTHOR: Netrebko, V.P.

TITLE: Torsion of Bars With Entering Angles

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I, matematika, mekhanika. 1960, No. 4, pp. 37-44

TEXT: Let the axis of the bar be in parallel with the z-axis. Let the cross section of the bar be bounded 1. by the straight lines $y=k|x|$ 2. by the straight lines $y=-\alpha|x|+\beta$, $\beta>0$, 3. by the curve $y=\varphi(x)$ which is symmetric to the y-axis. At the ends of the bar z=0 and z=h there are given arbitrary tangential stresses which are statically equivalent to a torsional moment. The lateral surfaces are not baded. The formulated torsion problem is solved according to the variation method of M.M.Filonenko- Borodich (Ref. 1) by constructing the principal and correcting stress tensors. The stress functions are approximately described by multiple trigonometric sums. The author gives explicit (partially very long) expressions for the components of both tensors. Finally with the aid of obtained formulas the author calculates the torsion problem for a bar, the cross section of which is an isosceles triangle. A comparison with the rigorous solution of Galerkin (Ref. 2)

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PHASE I BOOK EXPLOITATION SOV/4042

Leningrad. Universitet

Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy; trudy konferentsii 13-21 fevralya 1958 goda (Optical Polarization Method for Stress Analysis; Transactions of the Conference of February 13-21, 1958). [Leningrad] Izd-vo Leningradskogo univ., 1960. 451 p. Errata slip inserted. 2,400 copies printed.

Resp. Ed.: S.T. Shibbabalov; Ed.: Ye.V. Shchemeleva; Tech. Ed.: S.D. Vodolagina; Editorial Board: S.G. Gutman, L.M. Kachanov, V.M. Krasnov, T.D. Maksutova, N.I. Prigorovskiy, V.M. Proshko, N.S. Rozanov, and Ye.I. Edel'shteyn.

PURPOSE: This collection of 58 articles is intended for scientists and engineers concerned with experimental stress analysis of machine parts and structural components.

COVERAGE: The collection contains reports presented at the conference on optical polarization methods in stress analysis held February 13 - 21, 1958, in Leningrad and attended by 324 delegates including representatives of the People's Republic of China, the Polish People's Republic, the German Democratic Republic, and the Republic of Czechoslovakia. The reports discuss general theoretical problems and new methods of investigation and describe apparatus and materials used in the optical method. Solutions of specific two-dimensional and three-dimensional problems occurring in shipbuilding, aircraft design, engine construction, in various branches of heavy and precision machine design, in mining, metallurgy, hydraulic structures, railroad transport, in structural mechanics, geodynamics, in the control of stresses in products of the glass and electronic industry, etc., are given. Solution of the three-dimensional problem by means of the method of photoelasticity is introduced and the use of this method for the solution of problems associated with plasticity, creep, dynamics, hydrodynamics, etc., is demonstrated. Reports previously published elsewhere are printed here in abbreviated form. No personalities are mentioned. References are found at the end of 47 of the reports.

Optical Polarization Method (Cont.) SOV/4042

44. Reitzig, M.A., and Z.T. Kuvalkina. Concentration of Stresses in Keyways of Turbine Disks 348

45. Nekrasova, T.A. Stress Analysis of Turbine Blade Stems by the Optical Polarization Method 353

46. Netrebko, V.P., and I.A. Skoryy. Stress Analysis of the Contact Area of Flat Cylindrical Pairs by the Photoelasticity Method 357

47. Vagapov, R.B., O.I. Shishorina, and L.A. Kuripina. Elastic Stress Concentration From the Mutual Influence of Cutouts and Holes 364

48. Smirnov, M.D. On Plane Bending of Rods of Variable Cross Section 371

X. INVESTIGATION OF THE STATE OF STRESS IN HYDRAULIC STRUCTURES; FOUNDATIONS, AND STRUCTURAL ELEMENTS

49. Prigorovskiy, N.I., E.F. Gubin, and G.L. Khesin. Investigation of the State of Stress of Built-in Type GES [Hydroelectric Power Plants] Using Three-Dimensional Models 378

Card 10/12

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

SOV/133-59-9-2/31

Mastering of a High Capacity Blast Furnace

the blast temperature from 840° to 970°C and the moisture content from 30 to 40 g/m^3 decreased the coke consumption by 2.6% and increased the output by 3.7%. Whereupon the utilization of carbon monoxide for reduction increased from 39 to 41%, the degree of direct reduction somewhat increased and the participation of hydrogen in the reduction amounted to about 69%. The following deficiencies in the furnace design are listed: a) blast main with three 90° bends which lead to an increase in the pressure drop; b) lack of balance between the capacity of the scale car and skips which causes some difficulties in the furnace charging (not specified) and c) the positioning of tunnels for power cables and water mains in places where, in case of a break out, the penetration of liquid iron is possible. There are 5 figures and 3 tables.

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(slag basicity 1.26). It was found that the furnace was very sensitive to the degree of filling of the hearth with liquid products (Fig 3). Any retardation in the casting or removal of slag considerably decreases the rate of descent of burden materials. Changes in the composition of the gas phase along the hearth radius (tuyere level) - Fig 4, changes in the CO_2 content of the top gas along the throat radius - Fig 5; operating conditions and material balances for two operating periods - table 3. From the operating experience gained it is concluded that large furnaces can operate efficiently at large outputs. An increase in the sinter basicity of 0.1 increases the output of the furnace by 1.2%. Some deterioration in the size distribution of sinter caused by an increase in basicity did not cause any noticeable deterioration in the furnace operation. An increase in the blast volume of 100 m^3/min increases the output by 1.3%. The depth of the combustion zone in the furnace was found to be about 1200 mm which for a furnace of 9100 mm diameter is insufficient and some measures should be taken to increase it. An increase in

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SOV/133-59-9-2/31

AUTHORS: Ryazanov, F.F., Netrebko, P.G., Pokryshkin, V.L. Yalovoy, D.S., Brusov, L.P. and Rabinovich, G.B.

TITLE: Mastering of a High Capacity Blast Furnace

PERIODICAL: Stal', 1959, Nr 9, pp 770-776 (USSR)

ABSTRACT: In September 1958, the largest furnace in the USSR (and Western Europe) was blown in, its working volume 1719 m^3. The profile and main dimensions of the furnace are shown in Fig 1. The blast is heated in 4 stoves of 27135 m^2 heating area each, allowing a blast temperature of 1000 - 1050°C to be maintained. The blast is supplied by a blower of a capacity of 4000 m^3/min at 3.8 atm abs. The furnace was operating with about 85% of fluxed sinter (basicity 0.8 - 1.0) containing 40-45% of fines 0 - 12 mm) and a high top pressure of 1.25 to 1.40 atm. Changes in the output, ore load and blast volume during the first months of operation are shown in Fig 2. Furnace operating data for subsequent operation (up to the end of 1958) are given in table 1 and analyses of iron and slag in Table 3. During December 1958, the average daily output of the furnace rose to 2231 tons (7 casts per day) at a coke rate of 749.6 kg/ton and slag volume of 882.5 kg/ton

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

Polymer Materials for Models of the Polarization-optical Method of Examination of the Tension SOV/153-2-2-26/31

5) Caprolactam and acrylo-nitryl strongly accelerate the reaction of the common polymerization in the presence of benzoyl-peroxyde. The polymerization-process must, therefore, be carried out at a lower initial temperature.
6) The introduction of acrylo-nitryl at the expense of other monomers reduces the optical sensitivity of the finished product with a simultaneous increase of the elasticity-modulus. There are 4 figures, 1 table, and 4 Soviet references.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya i Moskovskiy gosudarstvennyy universitet imeni N. V. Lomonosova; Kafedra fizicheskoy khimii i kafedra teorii uprugosti (Moscow Institute of Chemical Engineering and Moscow State University imeni M. V. Lomonosov; Chair of Physical-chemistry and Chair of the Theory of Elasticity)

SUBMITTED: May 6, 1958

Card 4/4

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

Polymer Materials for Models of the Polarization-optical Method of Examination of the Tension SOV/153-2-2-26/3

"freezing"-method (metod zamorazhivaniya) on a polyester basis, which are analogous to the material "MIKhM-ImaSh", which however are distinguished by their optical-mechanical characteristics, was solved by varying the combination of the initial components, and the method of condensation- and polymerization-reaction, respectively. 2) Among a number of test samples, stiffer materials with an increased modulus of elasticity compared with "MIKhM-ImaSh", and less stiff-ones (with decreased modular values) up to materials with signs of liquid state were produced. 3) The following can be used as structure-forming factors: a) increase of phthalic acid contents in polyesters and b) increase of the content of polyesters in the mixture with monomers (styrene and methyl-methacrylate). The introduction of the two mentioned factors is specially effective for the modular increase. The optical sensitivity can be increased by raising the styrene contents in the monomer - mixture. 4) The mentioned vegetable oils were used with positive results as fluxing agents which come into reaction with other components, (effect of the "inner plastification").

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

Polymer Materials for Models of the Polarization-optical Method of Examination of the Tension SOV/153-2-2-26/3

upon products of common polymerization of unsaturated polyesters and monomers. Apart from diethylene glycol, sebacine, and maleic acid, phthalic anhydride, as well as terephthalic acid, tung-oil, linseed-oil, castor-oil, and caprolactam were used as initial chemical agents for the manufacture of polyester. Besides styrene and methylmethacrylate, acrylo-nitril also served as monomer. After an introduction, the experimental part is subdivided into the following chapters: a) Examination of the influence of a partial replacement of the sebacine-acid in the polyesters by phthalic anhydride, terephthalic acid, and terephthalic-dimethylester; b) Examination of the influence of a partial replacement of the sebacine-acid in the polyesters by castor-, tung-, and linseed-oil (Fig 3), as well as by a mixture of these oils; c) Examination of the influence of an addition of caprolactam; d) Examination of the influence of the replacement of part of the methyl-methacrylate and styrene by acrylonitryl. On the basis of the obtained results, the authors arrive at the following conclusions: 1) The task of producing optically-sensitive materials according to the

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5(1,3)

AUTHORS: Shchegolevskaya, N. A., Netrebko, V. P., SOV/153-2-2-26/31
Skoryy, I. A., Sokolov, S. I.

TITLE: Polymer Materials for Models of the Polarization-optical Method of Examination of the Tension (Polimernyye materialy dlya modeley polyarizatsionno-opticheskogo metoda issledovaniya napryazheniy)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 2, pp 280-286 (USSR)

ABSTRACT: The demands made on the method mentioned in the title with regard to the materials used, have considerably increased because the tasks became more complicated and manifold. The present paper continues the authors' previous investigations in this direction. It concerns the examination-method mentioned in the title, of tensions on the basis of products of combined condensation and polymerization (Refs 2-4). The authors further developed the previously prepared ways of the variation of the structure and properties of materials and investigated some more possible and at present topical ways, in order to obtain materials with various properties. The optically-sensitive materials looked for, are based

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Problem on the Torsion of a Shaft With Varying Cross Section SOV/55-58-6-2/31

(2,6). The computation was illustrated by a numerical [illegible] (Fig 2) with $f(z) = \pm a\varphi(z) = \begin{cases} \beta \\ b+k(z-\alpha)(z-\beta) \end{cases}$. There are [illegible] and 2 Soviet references.

ASSOCIATION: Kafedra teorii uprugosti (Chair of Tension Theory)

SUBMITTED: April 10, 1958

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moment. If $x=\pm a$ and $y=\varphi(z)$ the basic tensor is simplified:

$X_x=0$ $Y_y=-\frac{2y\varphi'}{\varphi}\frac{\partial F}{\partial x}+\frac{2\varphi'}{\varphi}\left[\int\frac{\partial F}{\partial x}dy+\chi(x)\right.$ $Z_z=0, Y_z=-\frac{\partial F}{\partial x}, X_z=\frac{\partial F}{\partial y}, X_y=$ $=\frac{y\varphi'}{\varphi}\frac{\partial F}{\partial y}$ (1,2) $F(x/f, y/\varphi)=$ tensional function where $x=\pm a$ becomes equal to zero due to the surface tension $\chi(x)$. The correction tensor is set up by means of the Morer tensional function. By means of the functions $Q(x/f)$ and $Q(y/\varphi)$ and $P_p(z)$ set up for the assumed boundary conditions and the trigonometric functions $\phi_{1,2,3}$ the components of the tension tensor may be computed for the case $x=\pm a$, $y=\pm\varphi(z)$ from these functions. By the addition of the components of (1,2) and (2,5) the general tension tensor may be obtained. The tensor contains all properties originally required and A_{mnp}, B_{mnp}, C_{mnp} as free parameters which were determined according to the method by Kastigliano from the minimum condition for the tension energy of the deformation $\delta V=0$ $\left(\frac{\partial V}{\partial A_{mnp}}=0, \frac{\partial V}{\partial B_{mnp}}=0, \frac{\partial V}{\partial C_{mnp}}=0\right\{m,np=1,3,\ldots\}$

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24 (1)

AUTHOR: Netrebko, V. P. SOV/55-58-6-2/31

TITLE: Problem on the Torsion of a Shaft With Varying Cross Section (Zadacha o kruchenii sterzhney peremennogo secheniya)

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 6, pp 7 - 12 (USSR)

ABSTRACT: For the solution of the problem mentioned in the title the approximation method is applied which is based on the variation principle by Kastigliano. According to M. M. Filonenko-Borodich (Ref 1) this method assumes a state of tension which is composed of the sum of two tensors i.e. the basic tensor which satisfies the given boundary conditions and the equilibrium equation and the correction tensor which satisfies the boundary conditions in the value z=0 and which contains a sufficiently high number of linear and free parameters. The following holds for the shaft (Fig 1): $y = \varphi(z)\, x = f(z)$; these functions should be plane in individual parts. At the boundary surfaces z=0 and z=h. In setting up the tensors it is assumed that at the beginning the lateral surfaces are without tension and that tangential tensions occur on the upper and the lower boundary surface which are statically equivalent to the torsional

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NETREBKO V.P.

USSR/Physics - Elasticity FD-1599

Card 1/1 : Pub. 129-2/23

Author : Netrebko, V. P.

Title : Torsion of an elastic parallelepiped for a given law of distribution of tangential stresses on the bases

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 8, 15-26, Dec 1954

Abstract : Problems on the distortion of beams of arbitrary cross-section in elasticity theory ordinarily receive a practical convenient solution in the case of modification of the boundary conditions on the end sections of the beams where the active load rests. The author considers the solution of the problem on the distortion of a parallelepiped without modification of the boundary conditions at the place of imposition of the load. In the solution he employs a method based on the Castiliano variational principle as recently developed by Prof. M. M. Filonenko-Borodich. Here the stress tensor is represented in the form of the sum of two tensors, principal and correcting, when this method is applied to the solution of elasticity problems in the case where the surface forces are known. Four references; e.g. M. M. Filonenko-Borodich, Prikl. mat. i mekh. 1951.

Institution : Chair of the Theory of Elasticity

Submitted : May 24, 1954

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ZHDANOVSKIY, K.T.; NETREBKO, P.G.; RABINOVICH, G.V.; SUKONNIK, M.A.; TOVAROVSKIY, I.G.

Blast furnace operations on sinter with the fine fraction sifted out. Metallurg 10 no.12:3-5 D '65. (MIRA 18:12)

1. Krivorozhskiy metallurgicheskiy zavod.

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GALATOV, N.S., inzh.; ZHURAVLEV, I.P., inzh.; NETREBKO, P.G., inzh.

Operation of blast furnaces with a capacity of 2.000 m^3.
Met. i gornorud. prom. no.5:3-8 S-O '63. (MIRA 16:11)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETR[redacted]KO, P.G., inzh.; RABINOVICH, G.B., inzh.; SUKONNIK, M.A., inzh.; MASLOV, V.S., inzh.; LISHIN, I.I., inzh.

Experimental use of conveyor feeding of the charge mixture to powerful blast furnaces. Stal' 23 no.5:397-400 My '63. (MIRA 16:5)

(Blast furnaces) (Conveying machinery)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NEKRASOV, Z.I.; POKRYSHKIN, V.L.; NETREBKO, P.G.; RABINOVICH, G.B.; KAMENEV, R.D.

Blast furnace performance with a high-grade fluxed sinter. Stal' 23 no.5:389-393 My '63. (MIRA 16:5)

1. Institut chernoy metallurgii Gosudarstvennogo komiteta po chernoy i tsvetnoy metallurgii pri Gosplane SSSR i Krivorozhskiy metallurgicheskiy zavod.
(Blast furnaces--Equipment and supplies)

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STARSHINOV, B.N., kand.tekhn.nauk; ONOPRIYENKO, V.P., kand.tekhn.nauk; POKRYSHKIN, V.L., kand.tekhn.nauk; NETREBKO, P.G., inzh.; YALOVOY, D.S., inzh.

Slag formation during blast-furnace smelting with fluxed sinter. Stal' 20 no.8:673-680 Ag '60. (MIRA 13:7)

(Blast furnaces) (Slag)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

Blast-furnace Operation at a Top Pressure of Over 1 Atmosphere (Gauge) 130-58-4-4/20

ASSOCIATIONS: Ukrainskiy institut metallov (Ukrainian Institute of Metals) and zavod "Krivorozhstal'" ("Krivorozhstal'" Works)

Card 2/2

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

130-58-4-4/20

AUTHORS: Onopriyenko, V.P., Candidate of Technical Sciences, Starshinov, B.N., Candidate of Technical Sciences, Netrebko, P.G., Yalovoy, D.S., Rabinovich, G.B., Engineers

TITLE: Blast-furnace Operation at a Top Pressure of Over 1 Atmosphere (Gauge) (Rabota domennoy pechi pri davlenii koloshnikovykh gazov vyshe 1 ati)

PERIODICAL: Metallurg, 1958, Nr 4, p 6 (USSR).

ABSTRACT: The authors give operating data for Nr 3 blast furnace at the Krivorozhstal' Works smelting pig iron (2.3 - 2.75% Si) from a burden containing 96.7 - 100% sinter and 55.03 - 56.97% Fe for a period (March - October, 1956) when the top pressure was changed monthly in the range 0.46 - 1.13 atm (gauge). After allowing for the changing iron content of the burden, the authors conclude that raising top pressure from 0.46 - 0.71 to 1 - 1.05 atm. (gauge) leads to an increase in furnace productivity of 4 - 7% and a decrease in coke rate of 5 - 9%. The pressure drop through the furnace and flue-dust production decreased with increasing top pressure. With increased top pressure, the furnace tended to work up the walls and the coke charge was reduced from 6.3 - 6.45 to 5.6 tons, the charging cycles CCOxCSx and COxCCSx being adopted. There is 1 table.

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETREKO, N.S., inzh.

Silting of Tshchikskoye Reservoir on the Kuban River. Gidr.i mel. 12 no.4:12-19 Ap '60. (MIRA 13:9)

1. Krasnodarskiy filial Giprovodkhoza.
(Tshchikskoye Reservoir--Reservoir sedimentation)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

NETREBKO, I. D.

Cand Med Sci - (diss) "Materials on the study of mite-borne recurrent typhus in the Ukraine." Kiev, 1961. 14 pp; (Kiev Order of Labor Red Banner Med Inst imeni Academician A. A. Bogomolets); 250 copies; price not given; (KL, 6-61 sup, 239)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700019-6

SOV/16-60-3-16/37

Nutrient Media Which Accelerate the Growth of Brucella and Help in Detecting Them Among Concomitant Microflora

surface of the agar with a stain solution consisting of malachite green (1:5,000) and safranine (1:2,500).
There are: 2 tables and 6 Soviet references.

ASSOCIATION: Kiyevskiy institut epidemiologii i mikrobiologii (Institute of Epidemiology and Microbiology, Kiyev)

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ABSTRACT: The authors investigated various nutrient media in an attempt to find one capable of accelerating the growth of Brucella, to produce a pure strain for diagnostic prupose. It was found that a good nutrient medium could be produced from fresh cruse amniotic fluid of cattle, filtered through a Zeitz filter. In such medium Brucella could be cultured within 4 days, compared to the 9 days required for culturing in Huddleson's broth. To detect Brucella among concomitant microflora the specimen can be inoculated on liver agar with 1% glucose and 2% glycerine and with the addition of safranine (1:250,000) and malachite green (1:250,000), whereupon the brucella colonies stain bright red, dark red or ruby. Staining develops after 20 - 30 minutes. Differential staining of the colonies which have developed on the liver agar can be achieved by coating the

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