ZHUKOV, P. A.

For profitableness in machine construction. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. lit-ry, 1948. 63 p. (49-52234)

HD9705.R92Z5

ZHUKOV, P.A.; QANSHTAK, V.I.; KRUPATKINA, B., redaktor; UL'YANOVA, M., tekhnicheskiy redaktor

[The leading role of socialist industry in the development of Soviet agriculture] Vedushchaia rol' sotsialisticheskoi promyshlennosti v vazvitii sel'skogo khoziaistva, 1954. 62 p. (MLRA 9:12)
(Agriculture) (Industrialization)

GANSHTAK, Vladimir Iosifovich, doktor ekon. nauk; ZHUKOV, Pavel Aleksandrovich, prof.; PETROV, V.V., inzh., retsenzent; GETLING, Yu., red.

[Production potentials are limitless! Based on the example of the machinery manufacturing enterprises of Sverdlovsk Province] Rezervy proizvodstva neischerpaemy. Na primere mashinostroitel'nykh predpriiatii Sverdlovskoi oblasti. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1963. 207 p. (MIRA 18:3)

1. Nachal'nik Upravleniya truda i zarabotnoy platy Sredne-Ural'skogo sovnarkhoza (for Petrov). 2. Politekhnicheskiy institut imeni S.M.Kirova (for Zhukov).

ZHUKOV, P. I.

"Fish of the Neman River Basin." Cand Biol Sci, Belorussian State U imeni Lenin, 16 Nov 54. (SB, 6 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

ZHUKOV, P.I.

Discovery of the spitter (Chondrostoma nasus (L.)) in the Neman River.
Vop.ikht.no.4:16-20 '55. (MLRA 9:6)

1.Institut biologii Akademii nauk Belorusskoy SSR.
(Neman River--Fishes)

RAGAVOY, P.P., akademik; ZHUKAU, P.I., kandydat biyalagichnykh navuk.

Urgent problems in the protection and development of natural resources in the White Russian S.S.R. Vestsi AN BSSR Ser.biial.nav. no.1:31-38 '56. (MLRA 9:9)

1.Akademiya navuk Belaruskay SSR (for Ragavoy).
(White Russia--Forest protection)

ZHUKAU, P.I.

Species of fish in the White Russian sector of the Neman.
Vestsi AN BSSR Ser.biial.nav.no.1:97-107 '56. (MLRA 9:9)
(Neman River--Fishes)

ZHUKAU, P.I., kandydat biyalagichnykh navuk.

Using Neman Basin waters for fisheries (within the boundaries of the White Russian S.S.R.). Vestsi AN BSSR Ser.biial.nav.no.2:83-87 '56.
(Neman Valley--Fisheries) (MLRA 10:1)

ZHUKAU, P.I., kandydat biyalagichnykh navuk.

Development of ichtyofauna in the Neman Basin. Vestsi AN BSSR.Ser. biial.nav. no.3:75-82 '56. (MLRA 10:1)
(Neman Valley--Fishes)

ZHUKAU, P.I.

ZHUKAU, P.I.

Morphological data on the commercial varieties of carp in the Neman River. Vestsi AN BSSR. Ser. biial. nav. no.2:85-100 '57.
(Neman River--Carp) (MLRA 10:9)

ZHUKAU, P.I.

The Fifth Academic Conference on Studying the Inland Waters of the Baltic Sea Region. Vestsi AN BSSR. Ser. biial. nav. no.2: 143-144 '57. (MIRA 10:9)

(Baltic Sea region--Fisheries)

ZHUKOV, P.I. [Zhukau, P.I.]

Materials on the morphology of pike and perch from the Neman River. Vestsi AN BSSR. Ser. biial. nav. no.4:141-149 '57. (MIRA 11:6)
(NEMAN RIVER--PIKE)
(NEMAN RIVER--PERCH)

ZHUKOV, P.I.

[Fish of the Neman Basin; within the boundary of White Russia]
Ryby basseina Nemana (v predelakh Belorusskoi SSR) Minsk, Akademiia nauk Belorusskoi SSR, 1958. 191 p. (MIRA 11:6)
(Neman Valley--Fishes)

ZHUKOV, P.I. [Zhukau, P.I.]

I.M. Siarzhanin; on his 60th birthday. Vestsi AN BSSR Ser.biial. nav. no.4:136-139 '58. (MIRA 12:4)
(Siarzhanin, Ivan Nikolaevich, 1898- )

ZHUKOV, P.I. [Zhukau, P.I.]

Fish species in the Western Dvina Basin (within White Russia).
Vestsi AN BSSR.Ser.biial.nav. no.2:82-90 '59. (MIRA 12:9)
(WESTERN DVINA RIVER--FISHES)

ZHUKOV, Prokhor Ivanovich; SERZHANIN, I.N., prof., red.; BULAT, O., red.izd-va; SIDERKO, M., tekhn.red.

[Guide to fishes of the White Russian S.S.R.; manual for practical workers] Opredelitel' ryb Belorusskoi SSR; spravochnik dlia prakticheskikh rabotnikov. Minsk, Izd-vo Akad.nauk BSSR, 1960. 122 p. (MIRA 13:9)
(White Russia--Fishes)

ZHUKOV, P.I. [Zhukau, P.I.]

Lenin's principles and the protection of nature. Vestsi AN BSSR. Ser.biial.nav. no.2:25-32 '60. (MIRA 13:7)
(NATURAL RESOURCES)

ZHUKOV, P.I. [Zhukau, P.I.]

Fish species in the vasin of Sozh River. Vestsi AN BSSR. Ser. biial. nav. no.2:73-78 '61. (MIRA 14:7)
(SOZH VALLEY--FISHES)

ZHUKOV, P.I. [Zhukau, P.I.]

Species of fishes of the Berezina basin. Vestsi AN BSSR Ser. biial. nav. no.2:99-105 '63 (MIRA 17:3)

ZHUKOV, P.I.

L 47747-65 EWT(m)/EWG(m)/EWP(t)/EWP(b) IJP(c) RDW/JD 21 2c 8

ACCESSION NR: AP5010921 UR/0286/65/000/007/0104/0104

AUTHOR: Kudryavtsev, A. A.; Ryabova, R. I.; Ustyugov, G. P.; Bartosevich, M. K.; Morozov, I. P.; Zhukov, P. I.; Gerasimov, V. S.

TITLE: Method of refining tellurium. Class 40, No. 169793 14

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 104

TOPIC TAGS: tellurium, tellurium refining, high purity tellurium 15

ABSTRACT: This Author Certificate introduces a method of refining tellurium up to 99.9999% purity. Commercial grade tellurium is purified by distillation, first in hydrogen at 700C and then in a vacuum of 1 mm Hg at a temperature gradually changing from 800C in the still to 500C in the condenser. [AZ]

ASSOCIATION: none

SUBMITTED: 190ct62 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4006

Card 1/1

ZHUKOV, Prokhor Ivanovich; DRYAGIN, P.A., prof., red.

[Fishes of White Russia] Ryby Belorussii. Minsk, Nauka i tekhnika, 1965. 414 p. (MIRA 18:7)

ZHUKOV, P.I. [Zhukau, P.I.]

Changes in the composition of the ichthyofauna of the waters of White Russia during the past 100 years. Vestsi AN BSSR. Ser. biial. nav. no.4:120-126 '62. (MIRA 17:8)

BARTOSEVICH, N.K.; ZHUKOV, P.I.; MOROZOV, I.F.; KUDRYAVTSEV, A.A.

Sulfide method for producing selenium and tellurium. Zhur. VKHO 8 no.5:584 '63. (MIRA 17:1)

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

ZHUKOV, P. I.

"The Object and the Tasks of the Soviet Theory of Physical Training", Teoriya i praktika fizicheskoy kul'tury, Vol XVI, No 11, 1953, pp 785-792

Trans

M-98, 21 Jan 55

ZHUKOV, P. I.

Automatic bottling machine. Spirt. prom. 22 no.4:21-25 '56. (MLRA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.

(Bottling machinery)

ZHUKOV, P.I., inzh.

Reducing the volume of technical documentation. Sudostroenie 25 no.10:43-46 O '59. (MIRA 13:2)
(Shipbuilding--Contracts and specifications)

ZHUKOV, P.I., inzh.

Organization of the production of working designs. Sudostroenie 26 no.2:50-52 (208) Feb '60. (MIRA 14:11)
(Shipbuilding)
(Industrial organization)

KAZANIN, Yu.I.; PIGULEVSKIY, N.A. [deceased]; SHLYGIN, A.Ye.; ZHUKOV, P.K.

New data on fold structures of lower Paleozoic ore enclosing formations of the Dzungarian Ala-Tau. Izv.AN Kazakh.SSR Ser. geol. no.4:8-18 '59. (MIRA 15:4)
(Dzungarian Ala-Tau—Folds (Geology))

PIGULEVSKIY, N.A. [deceased]; ZHUKOV, P.K.; KAZANIN, Yu.I.; KRIKUNOVA, N.P.; MURSALIMOV, Kh.I.; SHLYGIN, A.Ye.

Characteristics of the complex metal mineralization of the Dzhungarian Ala-Tau and further prospecting. Izv.AN Kazakh.SSR Ser.geol. no.4:45-57 '59. (MIRA 15:4)
(Dzhungarian Ala-Tau--Ore deposits)

ZHUKOV, Pavel Konstantinovich; KAZANIN, Yuriy Ivanovich; KAYUPOV, Aryktay Kayupovich; MURSALIMOV, Khakim Ibragimovich; PIGULEVSKIY, Nikolay Arsen'yevich; SHLYGIN, Artem Yevgen'yevich. Prinimali uchastiye: BAYKENEV, Sh.A.; BAYNAZAROVA, G.; ZORIN, Ye.S.; KRIKUNOVA, N.P.; SHUKHOV, N.N.; BOK, I.I., akademik, otv. red.; NESTEROVA, I.I., red.; ALFEROVA, P.F., tekhn. red.

[Basic features of the geology and metallogeny of the Koksu-Tekeli area of the Dzungarian Ala-Tau]Osnovnye cherty geologii i metallogenii Koksu-Tekeliiskogo raiona Dzhungarskogo Alatau. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 123 p. (MIRA 15:11)

1. Institut geologicheskikh nauk (for Zhukov, Kazanin, Kayupov, Pigulevskiy, Shlyginin). 2. Yuzhno-kazakhstanskoye geologicheskoye upravleniye (for Mursalimov). 3. Akademiya nauk Kazakhskoy SSR (for Bok).
(Dzungarian Ala-Tau--Geology, Economic)

ZHUKOV, P. P., kand. med. nauk; KHMELEVSKAYA, S. L.

Ruptures of the anterior cruciform ligament and injuries associated with it. Vest. khir. no.12:66-71 '61. (MIRA 15:2)

1. Iz kliniki travmatologii i ortopedii (nach. - prof. I. L. Krupko) Voyenno-meditsinskoy ordena Lenina akademii im. S. M. Kirova.

(KNEE—WOUNDS AND INJURIES)

ZHUKOV, P. P.

ZHUKOV, P. P. "On the problem of setting traumatic central dislocations of the hip", Sbornik nauch. trudov Khabar. voyen. gospitalya, III, Khabarovsk, 1948, p. 118-21.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

SOSNOV, K.A.; GNEDOV, N.P.; ZHUKOV, P.P.

The P1 unit for picking and preparing coal samples from railroad cars. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. no.11:29-30 '62. (MIRA 15:11)
(Coal--Testing)

ZHUKOV, P.P.(Leningrad, Tavricheskaya ul. d. 27, kv. 44 )

Intraosseous metal osteosynthesis of infected fractures of the hip; experimental data [with summary in English, p.158] Vest. khir. 77 no.2:41-48 F '56 (MLRA 9:6)

1. Iz kafedry ortopedii (nach. prof. I.L. Krupko) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(HIP, fract.
causing infect., intra-osseous metal osteosynthesis, exper. research data)
(FRACTURES
hip, causing infect., intra-osseous metal osteosynthesis exper. data)

ZHUKOV, P.P., kand.med.nauk

Results of the treatment of open fractures of long tabular bones with the aid of metallic osteosynthesis. Voen.-med.zhur. no.3:23-25 Mr '61. (MIRA 14:7)

(INTERNAL FIXATION IN FRACTURES)

ZHUKOV, P.P., kand.med.nauk (Leningrad, Yakovskaya ul., d.13, kv.10)

Homo- and autoosteoplasty in the treatment of pseudarthrosis. Vest.khir. 85 no.12:67-72 D '60. (MIRA 14:1)

1. Iz kafedry ortopedii i travmatologii (nach. - prof. I.L. Krupko) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.

(PSEUDARTHROSIS) (BONE GRAFTING)

ZHUKOV, P. V.

Garlic

Variability in garlic during its vegetative propagation., Agrobiologiia, no. 6, 1951. g. Barnaul, Altayskogo kraya

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

ZHUKOV, P.T. (poselok Lezhnevo Ivanovskoy oblasti)

Unusual observation of hepatic cavernoma. Khirurgiia no.3:67 Mr '55.
(MLRA 8:7)

1. Iz khirurgicheskogo otdeleniya Lezhnevskoy bol'nitsy.
(LIVER, neoplasms,
angioma)
(ANGIOMA,
liver)

ZHUKOV, P.Ya.

Public health system of the Soviet Pamir. Zdrav. Tadzh. 7 no. 2:22-25 Mr-Ap '60. (MIRA 13:10)
(PAMIRS—PUBLIC HEALTH)

ZHUKOV, P.Ya.

Some remarks on the development of the public health system in Stalinabad. Zdrav. Tadzh. 7 no. 3:20-21 My-Je '60.

(STALINABAD--PUBLIC HEALTH) (MIRA 14:4)

ZHUKOV, P.Ya.

Obi-Garm Health Resort. Zdrav.Tadzh. 7 no.1:23-24 Ja-F '60.
(MIRA 13:5)

(OBI-GARM)

ZHUKOV, R.F., kand.tekhn.nauk; SKOROKHOD, Yu.V., inzh.

Shipbuilding as treated in the Great Soviet Encyclopedia. Sudostroenie 25 no.1:86-87 Ja '59. (MIRA 12:3)
(Shipbuilding)

ZHUKOV, R.F., kandidat tekhnicheskikh nauk.

Ways of economizing electric power. Prom.energ.11 no.12:14-15 D'56.
(MLRA 10:1)
(Electric power)

ZHUKOV, R.K., leytenant meditsinskoy sluzhby

Group incidence of tonsillitis. Voen.-med. zhur. no.2:63 '65. (MIRA 18:11)

BATUNIN, P.A., inzh. po tekhnike bezopasnosti sluzhby puti; ZHUKOV, R.P., inzh.

We are providing for safety. Put' i put.khoz. 6 no.5:44 '62. (MIRA 15:4)

1. Ashinskaya distantsiya Kuybyshevskoy dorogi.
(Industrial safety) (Railroads--Employees)

ZHUKOV, S.

NIKITIN, V.; ZHUKOV, S.

Detachable frame for driving piles. Stroitel' no.2:9 F '58.
(MIRA 11:2)

1.Nachal'nik stroitel'no-montazhnogo uchastka No.1 tresta Sredvolgovodstroy (for Nikitin). 2.Starshiy proizvoditel' rabot stroitel'no-montazhnogo uchastka No.1 tresta Sredvolgovodstroy (for Zhukov).
(Piling (Civil engineering))

POPOV, F., inzh.; ZHUKOV, S.; ZUBAREV, A., prepodavatel';
SHUMAKHER, L.

Readers' letters. Sel'. stroi no.9:29 S '62.
(MIRA 15:10)

1. Buyskiy sel'skokhozyaystvennyy tekhnikum (for Zubarev).
2. Glavnyy inzh. masterskoy No. 4 Gosudarstvennogo instituta proyektirovaniya sel'skogo stroitel'stva (for Shumakher).

(Construction industry)

ZHUKOV, S., mayor, voyennyy shturman pervogo klassa

Determination of navigation elements should be highly precise. Av. i kosm. 48 no.12:57-60 D '65. (MIRA 18:11)

L 07811-67 EWT(l)/EWT(m)/EWP(w)/EWP(t)/ETI LIP(c) JD/WW/EM

ACC NR: AR6017495 SOURCE CODE: UR/0137/66/000/001/I082/I082

AUTHOR: Zhukov, S. A.; Shadskiy, I. A.; Zhukov, N.

41
B

TITLE: Durability of some alloys at high frequencies

SOURCE: Ref. zh. Metallurgiya, Abs. 11559

REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 19, 1965, 399-404

TOPIC TAGS: alloy steel, durability, vibration test

ABSTRACT: The authors studied the effect of variable high-frequency loads on the vibration strength of scoop materials (SAP, VT3-1, EI961 and EI617). Fatigue tests were done on an installation of the resonance type with an electromagnetic system for excitation of oscillations from 200 to 2400 cps. Thermal conditions were varied during testing from room temperature to 550°C. It was found that increasing the load frequency increases $\sigma_w$ for all materials studied. VT3-1 alloy showed the greatest increase in $\sigma_w$. V. Ivanova. [Translation of abstract]

SUB CODE: 11

Card 1/1 mc UDC: 669.018.295:620.17

ZHUKOV, Sergei.

General Shteifon. Nashi vesti 9 no.36:1-3 Ag '53. (MLRA 6:7)
(Shteifon, Boris Aleksandrovich)

ZHUKOV, S.A., inzh.

Welding in a water vapor media. Svar. proizv. no.3:26 Mr '62.
(MIRA 15:2)

1. SKMZ im. Ordzhonikidze.
(Electric welding) (Protective atmospheres)

L 07501-67 EWP(k)/EWT(d)/EWT(l)/EWT(m)/EWP(w)/EWP(v)/EWP(t)/ETI IJP(c) EM/JD

ACC NR: AR6017329 SOURCE CODE: UR/0264/66/000/001/A013/A013

AUTHOR: Zhukov, S. A.; Shadskiy, I. A.; Zhukov, N. D.

TITLE: Strength of certain alloys at high frequencies

SOURCE: Ref. zh. Vozdushnyy transport, Abs. 1A72

REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 19, 1965, 399-404

TOPIC TAGS: fatigue strength, alloy, fatigue test, METAL BLADE, PROPELLER BLADE

ABSTRACT: The study concerned effects of high frequency variable loads on fatigue limit of blade materials (SAP, VT3-1, EI961 and EI617). Fatigue tests employed a resonance setup, using an electromagnetic system to excite oscillations from 200 to 2400 cps. Test temperature varied from room temperature to 550C. It was established that the fatigue limit improves for all tested materials as the loading frequency increases. Best improvement in fatigue limit was noted for alloy VT3-1. [Translation of abstract] 4 illustrations and bibliography of 3 titles. V. Ivanova

SUB CODE: 11,01

Card 1/1 UDC: 620.1

SUBBOTA, M.I.; ZHUKOV, S.G.

Gas zones of the northeastern part of Central Asia. Neftegaz. geol. i geofiz. no. 12:26-32 '63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

ZHUKOV, S. I.

Reconditioning locomotive parts by build-up welding in a water vapor atmosphere. Avtom. svar. 15 no.11:95-96 N '62. (MIRA 15:10)

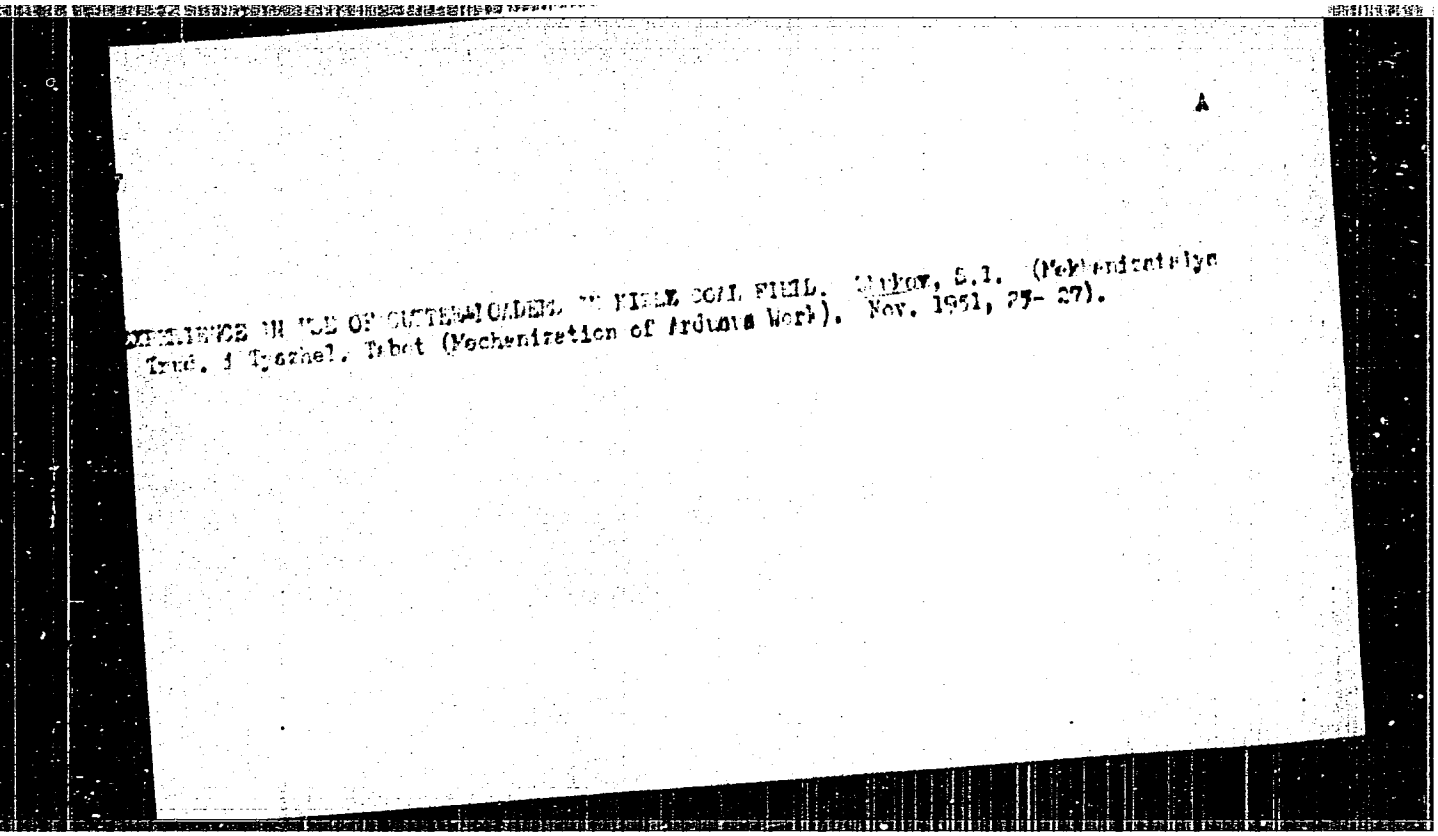
(Locomotives—Maintenance and repair)

ZHUKOV, S.I.

PORTYANKIN, I.A., polkovnik; KONONYKHIN, N.M., polkovnik; ZHUKOV, S.I., polkovnik; RUDIN, M.Z., podpolkovnik, redaktor; KONOVALOVA, Ye.K., tekhnicheskiy redaktor

[For the glory of the Soviet Motherland; examples of the valor and heroism of Soviet soldiers] Vo slavu sovetskoi rodiny; primery doblesti i geroizma sovetskikh voinov. [Sost. I.A.Portiankih, N.M. Kononykhin, S.I.Zhukov.] Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1954. 342 p. [Microfilm] (MLRA 9:1)

(Russia--Military history)



A

EXPERIENCE IN USE OF CATTLE MANURE AS FIELD SOIL FERTIL. Minkov, S.I. (Mekhanizatsiya Trud. i Tyazhel. Trbot (Mechanization of Arduous Work). Nov. 1951, 25- 27).

ZHUKOV, S. L.

USSR/Aircraft - Materials
Aircraft - Wood construction
Jul 1947

"Fatigue Characteristics of Wood and Laminated Wood," S. L. Zhukov, Candidate, Technical Sciences, 5 pp

"Tekhnika Vozdushnogo Flota" No 7 (232)

PA 18T2

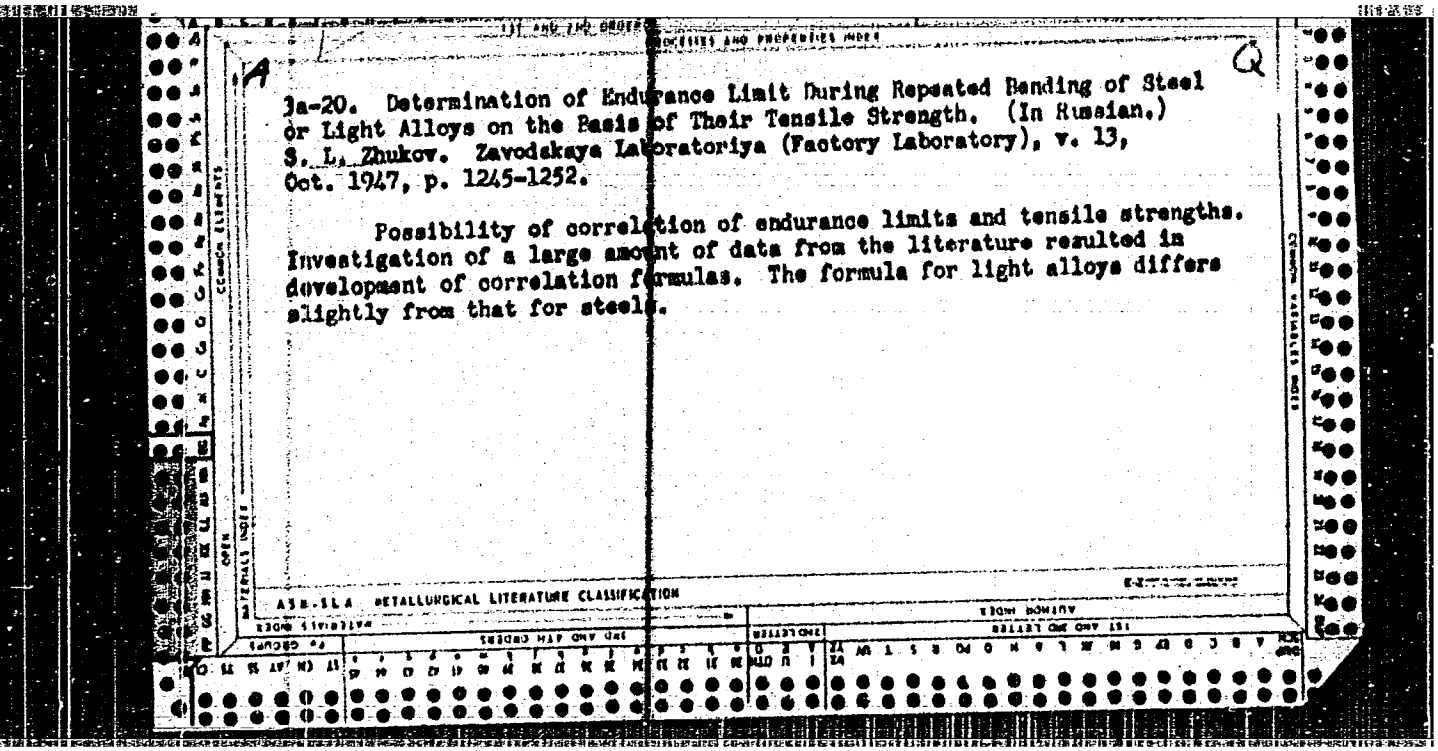
Discusses fatigue characteristics of various woods under loads. Mentions GOST, V-226-41 standard for plywood which consists of ten layers of wood with each layer having its grain at right angles to the next one. This applys to birch. Tables and graphs of tensile strength of birch, acacia, etc. Refers to work by Prof Siminskiy, F. P. Belyankin.

18T2

USSR/Aircraft - Materials (Cont'd)
Aircraft - Wood construction
Jul 1947

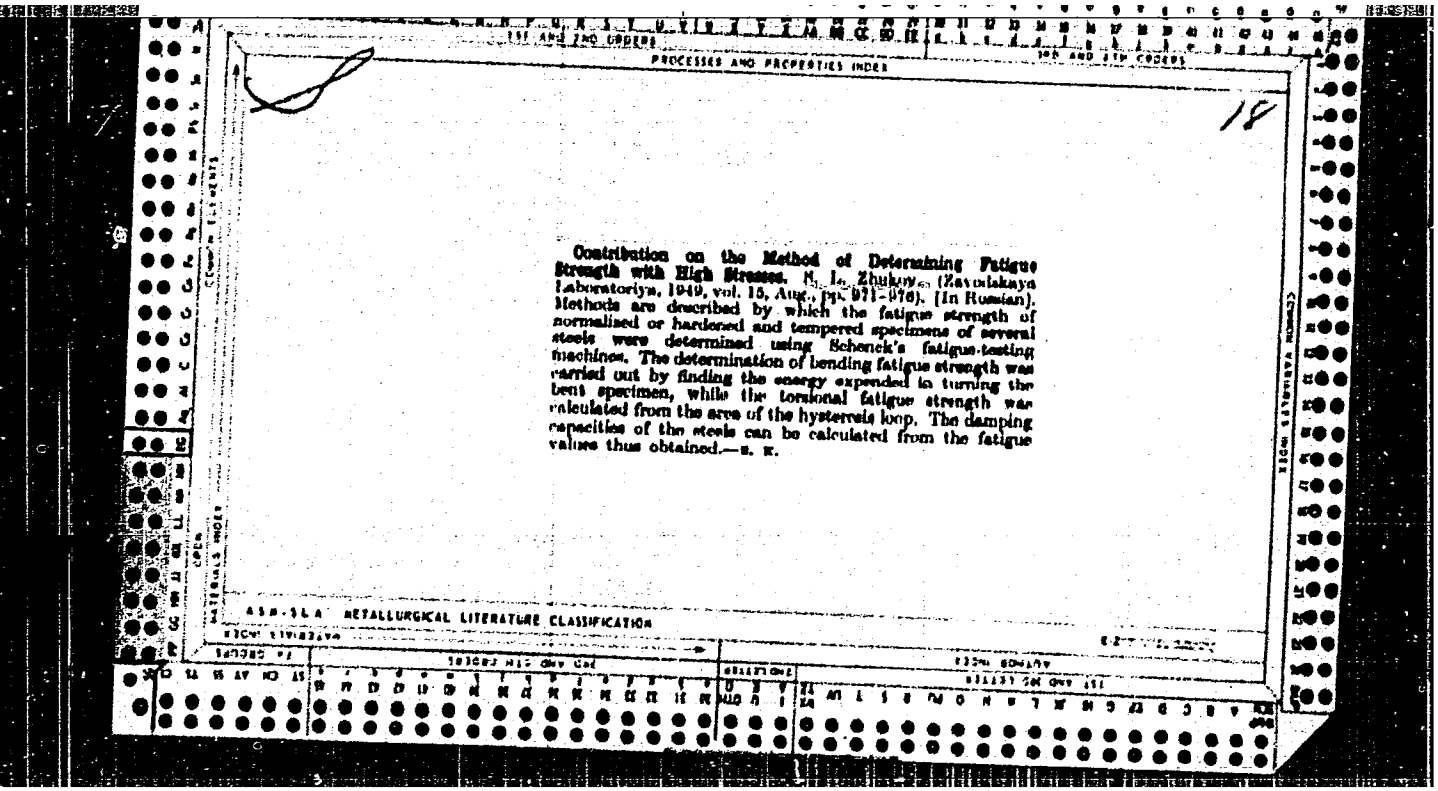
Soaking wood in a phenol-formaldehyde solution increases its tensile strength.

18T2



Ja-20. Determination of Endurance Limit During Repeated Bending of Steel or Light Alloys on the Basis of Their Tensile Strength. (In Russian.) S. L. Zhukov. Zavodskaya Laboratoriya (Factory Laboratory), v. 13, Oct. 1947, p. 1245-1252.

Possibility of correlation of endurance limits and tensile strengths. Investigation of a large amount of data from the literature resulted in development of correlation formulas. The formula for light alloys differs slightly from that for steels.



PROCESSES AND PROPERTIES INDEX

18

**Contribution on the Method of Determining Fatigue Strength with High Stresses.** N. L. Zhukov. (Zavodskaya Laboratoriya, 1949, vol. 15, Aug., pp. 971–976). [In Russian]. Methods are described by which the fatigue strength of normalised or hardened and tempered specimens of several steels were determined using Schenck's fatigue-testing machines. The determination of bending fatigue strength was carried out by finding the energy expended in turning the bent specimen, while the torsional fatigue strength was calculated from the area of the hysteresis loop. The damping capacities of the steels can be calculated from the fatigue values thus obtained.—S. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KUTAYTSEVA, Ye.I.; ZHUKOV, S.L.; BUTUSOVA, I.V.

Effect of technological factors on the appearance of a macrocrystalline rim in alloys of the systems Al - Mg - Si. Alium. splavy no.3:27-35 '64. (MIRA 17:6)

S/853/62/000/000/008/008
A006/A101

AUTHORS: Zhukov, S. L., Skladnov, I. K., Lapitskiy, Yu. A., Novikov, M. S.

TITLE: Investigating the scale resistance of heat-resistant alloy sheets

SOURCE: Termostoykost'zharoprochnykh splavov, sbornik statey, Ed. by N. M. Sklyarov Moscow, Oborongiz, 1962, 165 - 169

TEXT: The suitability of sheet materials for the manufacture of combustion chambers was tested on a machine designed by the authors (Author's Certificate no. 89849). The machine makes it possible to check and inspect the sheet material as if under operational conditions. The specimen is heated by passing electric current and cooled by an air jet. The thermal cycles are automatically controlled and their number is registered by a special electric counter. The whole heating-cooling cycle lasts from 30 sec to 2 minutes and more, and depends on the given conditions. One- and two- beveled specimens were tested at temperatures ranging from 200 to 900°C. The specimens were made of alloys Х20 Н80 Т 3 (Kh20N80T3) Х20 Н80 Т (Kh20N80T) Х18 Н12 М2 (Kh18N12M2) Х 18 Н11 Б (Kh18N11B), and chrome steels with 27% Cr and with 5% Ni. The number of thermal cycles until

Card 1/2

Investigating the scale resistance of... S/853/62/000/000/008/008
A006/A101

the breakdown of specimens was almost twice as low for one-bevel as for two-bevel specimens; it decreased with higher quenching temperatures. At close quenching temperatures, alloy Kh20N80T was found to be more resistant to the effect of thermal cycles than the Kh20N80T3 alloy. The specimens broke down along the grain boundaries without noticeable plastic deformation. Higher quenching temperatures increasing from 1050 to 1,200°C caused the growth of solid solution grains in alloy Kh20N80T and increased ductility at room temperature; ductility was reduced at elevated temperatures. The number of thermal cycles until the appearance of cracks was sharply reduced at higher quenching temperatures. There are 3 tables and 1 figure.

Card 2/2

18.1210

38982
S/137/62/000/006/123/163
A052/A101

AUTHORS: Kutaytseva, Ye. I., Zhukov, S. L., Butusova, I. V., Filippova, Z. G.

TITLE: Fatigue strength of aluminum-base alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 58 - 59, abstract 6I349 (V sb. "Deformiruyemyye alyumin. splavy". Moscow, Oborongiz, 1961, 150 - 157)

TEXT: Mechanical properties and $\sigma_w$ of alloys of the Al-Mg-Si system lying on the sections parallel to the sides Al-Mg and Al-Si of concentration triangle were investigated. All alloys had a constant content of 0.35 - 0.4% Mn and 0.17 - 0.2% Cr and were prepared of A00 Al. The ingots, after having been poured into a water-cooled mold, were diffusion-annealed for 24 hours at 470°C and pressed at 470 - 490°C in rods 22 mm in diameter. The heat treatment consisted of 40 min. heating at 520°C in a saltpeter bath, water hardening and artificial ageing at 150°C during 15 hours. It is shown that an increase in percentage of $Mg_2Si$ phase in the solid solution leads to a continuous increase of $\sigma_b$ and decrease of $\delta$. An excess of Si at a constant Mg and $Mg_2Si$ content increases sharp-

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ly $\sigma_b$ and decreases $\delta$. In this case $\sigma_w$ increases from 8 to 11 kg/mm$^2$ only in alloys with 0.8% $Mg_2Si$. An excess of Mg of up to 0.7% in alloys with 0.8% $Mg_2Si$ contributes to an increase of $\sigma_b$ and to decrease of $\delta$ at a practically constant $\sigma_w$. A further increase of Mg content results in a drop of $\sigma_b$, $\sigma_w$ and a rise of $\delta$. In alloys with 1.4 and 1.9% $Mg_2Si$ an increase of Mg to 2% decreases sharply $\sigma_b$ and increases $\delta$. An increase of Mn content from 0.3 to 0.6% in alloys of 6061 (1.1% Mg + 0.6% Si) and AB (AV) (1.0% Mg + 1.2% Si) types leads to an increase of $\sigma_b$ and $\sigma_w$. The most rational AV alloy composition securing the stability of properties of pressed products is suggested: 0.8 - 1.2% Si, 0.6 - 1.0% Mg, 0.4 - 0.9% Mn. Comparative fatigue strength tests at a cantilever bending of smooth and notched samples carried out on standard АВ (AV), АМГ 3 (AMG3), Д1 (D1), Д16 (D16), В 95 (V95) and АК 8 (AK8) alloys have shown that AK8, D16 and V95 alloys have maximum $\sigma_w$. $\sigma_w$ of D1, D16 and V95 alloys is in a direct dependence on ageing conditions. In the case of V95 alloy maximum $\sigma_w$ is reached after 16 hour ageing at 140 C. An addition of Mn or Cr to Al-Mg-Zn or Al-Mg-Zn-Cu alloys contributes to an increase of $\sigma_b$, $\sigma_w$ and to a sharp decrease of $\delta$. However, in alloys with Cr, $\sigma_b$ and $\sigma_w$ are lower than in alloys with Mn. A simultaneous presence of 0.35% Mn and 0.16% Cr in V95 alloy makes it possible to ob-

Fatigue strength of aluminum-base alloys

tain high $\sigma_b$ and $\sigma_w$ at a satisfactory $\delta$.

3/137/62/000/006/123/163
A052/A101

E. Kadaner.

[Abstracter's note: Complete translation]

Card 3/3

18.1210 (2408)

38513
S/123/62/000/011/003/011
A052/A101

AUTHORS: Kutaytseva, Ye. I., Zhukov, S. L., Butusova, I. V., Filippova, Z. G.

TITLE: Fatigue strength of aluminum-base alloys

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1962, 24, abstract 11A151 (V sb. "Deformiruyemyye alyumin. splavy". Moscow, Oborongiz, 1961, 150 - 157)

TEXT: The effect of structure and of alloying elements (0.3 - 1.1% Si, 0.5 - 2% Mg) on the fatigue strength of Al-alloys of Al-Mg-Si system was studied. These alloys are applied as a material for longerons of helicopter blades. The results have shown that an increase of percentage of Mg-phase within its limits of solubility in the solid solution increases the tensile $\sigma_b$ and decreases $\delta$. The maximum fatigue limit have АК 8 (AK8), Д16 (D16) and У 95 (U95) alloys, $\sigma_{-1}$ depending directly on the conditions of ageing. В 95 (V95) alloy has good $\sigma_{-1}$ characteristics, but at the same time an increased sensitivity to stress concentrations which reduces $\sigma_{-1}$ in ready products.

[Abstracter's note: Complete translation]

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35027
S/689/61/000/000/020/030
D205/D303

18.1210 (2402)

AUTHORS: Kutaytseva, Ye.I., Zhukov, S.L., Butusova, I.V., and Filippova, Z.G.

TITLE: Fatigue resistance of alloys based on Al

SOURCE: Fridlyander, I.N., V.I. Dobatkin, and Ye.D. Zakharov, eds. Deformiruyemyye alyuminiyevyye splavy; sbornik statey. Moscow, 1961, 150 - 157

TEXT: A study of the influence of structure and various alloying elements on the fatigue resistance of alloys in the Al-Mg-Si system. The main characteristic which those alloys should possess is a high -fatigue resistance during the action of corrosive media. The specific aim of this work was to establish the influence of Si and Mg on the fatigue limit of the Al-Mg-Si alloys. 10 alloys were investigated 3 corresponding to the quasi-binary section Al-$Mg_2Si$, 3 with excess Si and 4 with excess Mg with respect to the quasi-binary section. All alloys had a constant content of 0.35 - 0.4 % Mn and 0.17 - 0.20 % Cr.

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D205/D303

A00 (A00) aluminum was used. The ingots were prepared at 700 - 710°C homogenized at 470°C during 24 hours and pressed into 22 mm rods at 470 - 490°C, heated in a saltpeter bath for 40 minutes, quenched in water and artificially aged at 150°C during 15 hours. Mechanical testing followed. The increase of $Mg_2Si$ content increases the strength limit and decreases the relative elongation. At constant Mg and $Mg_2Si$ contents, an increase of Si sharply increases the strength limit. Excess of Mg, with respect to the amount in $Mg_2Si$, increases the strength limit and does not influence the fatigue limits and an increase in the relative elongation. The strength limit of the AP (AV) alloys ranges from 32 to 42 kg/mm$^2$. To stabilize the mechanical properties it seems desirable to raise the lower limits of Mg and Si contents and maintain the contents at 0.8 - 1.2 % Si and 0.6 - 1.0 % Mg. The influence of Mn and AV and 6061 type alloys was examined, finding that a Mn increase from 0.3 to 0.6 % increases the strength and fatigue limits. Ti had no effect on the mechanical properties of the alloys and Cu was not needed in the alloy, its absence being compensated by Mn. The alloys AK8, D16 and B95 (V95) have the maximum fati-

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Fatigue resistance of alloys based on Al S/689/61/000/000/020/03[illegible] D205/D303

gue limits of about 15 kg/mm$^2$. It was shown that the fatigue limit is directly dependent on the ageing regime. For instance, the V95 alloy has the maximum fatigue limit after ageing at 140°C over 16 hours. Any change from this regime causes a considerable decrease in the fatigue limit without affecting the strength limit. The influence of Cu, Mg, Mn and Cr on the fatigue limit of V95 has shown that both Mn and Cr have a beneficial effect on the mechanical properties. The optimum composition is 2 % Cu, 3 % Mg, 6 % Zn, 0.35 % Mn and 0.16 % Cr. There are 2 figures, 5 tables and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

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25967

10.7400 also 2206, 2808

S/535/60/000/129/005/006
E193/580

AUTHORS: Sulima, A.M., Yevstigneyev, M.I., Zhukov, S.L., Candidates of Technical Sciences, Shadskiy, I.A. and Zhukov, N.D., Engineers

TITLE: Investigation of endurance of titanium-base and other heat-resistant alloys tested on the ВИУ-1 МАИ-ВИАМ (VIU-1 MAI-VIAM) machine under high frequency loads

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy, No.129, 1960. Issledovaniye fizikomekhanicheskikh i ekspluatatsionnykh svoystv detaley posle obrabotki, pp. 92-111

TEXT: The object of the investigation described in the present paper was to determine the endurance limit of a titanium alloy ВТ3-1 (VT3-1) and two nickel-base alloys of the ЭИ617(EI617) and ЖС6К (ZhS6K) type, and to study the effect of the frequency of alternating loads on this property. The main shortcoming of the conventional fatigue testing methods is that the test conditions bear little relation to the conditions obtaining in service; in addition, they are time-consuming, 4-5 months of continuous work being required to construct on fatigue curve. It was for these reasons that a high frequency testing machine (VIU-1 MAI-VIAM) was

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used in the present investigation. The machine (whose detailed description is given) is of the resonance type and was designed for single-plane bending fatigue tests which can be carried out under the conditions of both imposed and resonance vibrations. The vibrations, generated by a powerful electromagnetic system consisting of an amplifier and a transformer, are transmitted to the test piece through a heavy beam, capable of producing alternating loads which are sufficiently high to break standard test pieces or even actual components, such as turbine blades. The auxiliary equipment consists of a microscope used for setting the test piece and for measuring the vibration amplitude which at high temperatures is measured with the aid of a cathetometer, and an electrical resistance furnace for high temperature work. Before testing, the test pieces were heat treated according to schedules given in Table 2. The tests were carried out on cylindrical test pieces of the cantilever type. The gauge length $l$ of the test pieces varied depending on the load frequency and test temperature, and was calculated from the formula

$$l = \sqrt{\frac{(1.8751)^2}{2\pi f}} \sqrt{\frac{EJ}{m}}$$

where f is the vibration frequency per sec, E the modulus of elasticity ($kg/mm^2$), J the moment of inertia ($mm^4$), and m mass per unit length ($kg.sec^2/mm^2$). The tests were conducted on a base $N = 10^8$ cycles in the case of the EI617 and ZhS6K alloys, and $10^7$ and $10^8$ cycles in the case of the VT3-1 alloy. Each fatigue curve was constructed from data obtained on eight test pieces. In the first test of each series a stress equal approximately to $0.5\ \sigma_b$ was used, where $\sigma_b$ is the U.T.S. of the alloy tested; in each subsequent test the applied stress was lowered by 2 $kg/mm^2$. The vibration amplitude, A (mm), of the free end of the test piece, required to produce a given stress, was calculated from the formula

$$A = 0.5682 \frac{\ell^2}{Ed} \sigma,$$

where $\ell$ and d are the length and diameter of the specimen, respectively, E the modulus of elasticity ($kg/mm^2$), and $\sigma$ the applied stress ($kg/mm^2$). The results are reproduced in Figs.10-13, where the stress $\sigma_{-1}$ ($kg/mm^2$) is plotted against the number of cycles to fracture. The fatigue curves in Fig.10 relate to alloy EI617, tested at 20°C under the following conditions:(1)testing

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Investigation of endurance of ...

machine of the ГЗИП (GZIP) type (bending of the revolving specimen), load frequency f = 50 cycles/sec; (2) testing machine of the П-391 (P-391) type (bending of a revolving specimen), f = 200 cycles/sec, (3) testing machine VIU-1 MAI-VIAm (single plane bending), f = 1000 cycles/sec. The fatigue curves in Fig.11 relate to alloy ZhS6K tested at 20°C, the testing conditions for curves 1-3 being the same as in Fig.10. The results, reproduced in Fig.12 relate to alloy VT3-1 tested under the following conditions: curve 1 - testing machine VIU-1 MAI-VIAM, f = 1100 cycles/sec, t = 20°C; curve 2 - same as for curve 1, except f = 420 cycles/sec; curve 3 - testing machine GZIP, f = 50 cycles/sec, t = 20°C; curve 4 - testing machine VIU-1 MAI-VIAM, f = 420 cycles/sec, t = 400°C. Fig.13 shows the fatigue curves of the VT3-1 alloy, tested at 20°C on the VIU-1 MAI-VIAM machine, curves 1-3 relating to tests carried out at f = 450, 1100 and 1650 cycles/sec, respectively; these are the most significant results of the present investigation, showing that the endurance limit of the alloys studied increased with increasing load frequency. Metallographic examination of the fatigue test pieces in the region of fracture revealed no changes in the microstructure

due to increased loading frequency. The fatigue cracks were trans-crystalline, and only in the zone of final fracture were intergranular cracking and some degree of plastic deformation of the grains observed. It was concluded that both the equipment used and the method employed by the present authors are suitable for fatigue testing under high frequency loading and give reliable results which can be used as design data in the production of turbine and compressor blades, operating under high frequency loads. There are 15 figures, 5 tables and 6 references: 1 Soviet and 5 English. The English-language references read as follows: Lomas T., Ward I., Rait, I., Colbeck E., International Conference on Fatigue of Metals, London, Sept., 1956; Krouse G., Proc. ASTM, 34, 1934, II, 156; Jenkin C. and Lehman G., Proc. Roy. Soc., 125, 1929, 83; Wade A and Grootenhuis P., International Conference on Fatigue of Metals, London, Sept., 1956.

SULIMA, A.M., kand.tekhn.nauk; YEVSTIGNEYEV, M.I.; kand.tekhn.nauk; ZHUKOV, S.L., kand.tekhn.nauk; SHADSKIY, I.A., inzh.; ZHUKOV, N.D. inzh.

Investigating the strength of titanium and heat resistant alloys at high-frequency loading on the VIU-1 MAI-VIAM testing unit. Trudy MAI no.129: 92-111 '60. (MIRA 14:3)

(Titantium alloys—Testing)
(Heat resistant alloys—Testing)

ZHUKOV, S. N.

"The procedure for veterinary processing of poultry for pullorosis and tuberculosis."

SO: Veterinariya 27 (12), 1950, p. 27

MAGNITSKIY, Konstantin Pavlovich. Prinimali uchastiye: GOSUDAREVA, A.G.; PANITKIN, V.A.; BELYAKOVA, N.G.; KAPUSTYANSKIY, A.N.; ZHUKOV, S.N.; NIKULINA, F.F.; BALABANOV, B.G.; VISHNYAKOVA, Ye., red.; KUZNETSOVA, A., tekhn. red.

[Control of the nutrition of field and vegetable crops] Kontrol' pitaniia polevykh i ovoshchnykh kul'tur. Moskva, Mosk. rabochii, 1964. 302 p. (MIRA 17:2)

1. Nauchnyye sotrudniki laboratorii kaliya Nauchnogo instituta po udobreniyam i insektofungitsidam (for Gosudareva, Panitkin, Belyakova, Kapustyanskiy, Zhukov, Nikulina, Balabanov).

ZHUKOV, S.N.

AUTHOR: Vol'kenshteyn, M. V., Doctor of Physico-Mathematical Sciences SOV/30-58-9-41/51

TITLE: Investigation of Mechanical Properties of Non-Metals (Izucheniye mekhanicheskikh svoystv nemetallov) Conference in Leningrad (Konferentsiya v Leningrade)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 9, pp. 109 - 111 (USSR)

ABSTRACT: The Mezhdunarodnyy soyuz chistoy i prikladnoy fiziki i Akademiya nauk SSSR (International Society of Pure and Applied Physics and the AS USSR) held a conference from May 19th to 24th. A.F.Ioffe, Member, Academy of Sciences, USSR, made the opening-speech. Further reports were delivered by:
S.N.Zhukov on the influence of time and temperature on the strength of a great variety of materials.
B.V.Deryagin, M.S.Metsik on the part played by electric energies at the cleaving process of mica.
A.V.Stepanov on the destruction modes of crystals.
R.I.Garber, I.A.Gindin, L.M.Polyakov on the characterization of plastic deformations by means of the micro-fissures occurring.

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Yu.N.Ryabinin on the results of researches on plasticity.
A.N.Orlov, Yu.M.Plishkin on the results of theoretical calculations on stability conditions of a crystal model.
T.A.Kontorova on the influence of anharmonic oscillations of a lattice on plastic deformation.
M.V.Klassen-Neklyudova, V.A.Indenbom, A.A.Urusovskaya, G. Ye. Tomilovskiy on the results of optical crystal research.
M.P.Shaskol'skaya, Sun'Zhuyfan on observation of plastic deformation in rock-salt.
A.A.Chernov on a kinetic equation for "steps" on the crystal surface.
G.G.Lemleyn, Ye.D.Dukova presented a film on the formation of displaced growth centers and the vaporization of crystals.
V.N.Rozhanskiy, Yu.V.Goryunov, Ye.D.Shchukin, N.V.Pertsov observed the emersion of dislocations on the crystal surface as well as the development of fissures.
R.I.Garber, Ye.A.Tsinzerling, M.A.Chernysheva on Problems of mechanic twin formation of crystals.
Ye.M.Yelistratov gave values obtained by radiographic examinations of mixed crystals and metallic alloys.

Investigation of Mechanical Properties of Non-Metals. Conference in Leningrad SOV/30-58-9-41/51

D.M.Vasil'yev examined micro-voltage occurring at plastic deformation in crystals.
M.I.Bessonov, S.K.Zakharov, G.A.Lebedev, Ye.A.Kuvshinskiy on the strength of amorphous bodies, especially polymers.
S.N.Zhurkov, V.A.Marikhin, A.I.Slutsker on the submicroscopic porosity of deformed polymers.
A.S.Akhmatov, L.V.Koshlakova, M.V.Vol'kenshteyn, A.I.Kitaygorodskiy on defective crystallic states.
A.F.Ioffe, Member, Academy of Sciences, USSR, closed the conference.

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ZHURKOV, S.N.; MARIKHIN, V.A.; SLUTSKER, A.I.

Study of the submicroscopic porosity of deformed polymers.
Fiz.tver.tela 1 no.7:1159-1164 Jl '59. (MIRA 13:2)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Polymers)

LITVINICHEV, N.I., inzh.; ZHUKOV, S.P., slesar'

Headframe for driving ground electrodes. Suggested by N.I. Litvinichev, S.P.Zhukov. Rats.i izobr.predl.v stroi. no.13:30-32 '59. (MIRA 13:6)

1. Montazhnoye upravleniye No.75 tresta TSentroelektromontazh Ministerstva stroitel'stva RSFSR, Moskva, 3-y Grokhol'skiyper., 6. (Electric currents--Grounding)

Country : USSR
Category: Cultivated Plants. Grains.

M

Abs Jour: RZhBiol., No 11, 1958, No 48866

Author : Zhukov, S.Ya.
Inst : All-Union Sci. Res. Inst. of Corn
Title : Development of Corn Sowing in China.

Orig Pub: Byul. Vses. n.-i. in-ta kukuruzy, 1956, No 2, 41-46

Abstract: A large number of varieties are cultivated under the variegated soil and climatic conditions of the country. Officially, the classification by regions has not yet been completed; however, 177 of the best varieties have been separated. Flint wheat is produced on 80% of the entire sowing area. Chiefly the dent varieties are grown in the northern regions.

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M-24

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Zhukov, T.M.

ZHUKOV, Tikhon Mikhaylovich; ARLAMENKOV, N.P., redaktor; ANDREYENKO, Z.D. redaktor; [illegible]SKAYA, L.M., tekhnicheskiy redaktor.

[Operation of an antenna group of a radio receiving center] Opyt raboty antennoi gruppy priemnogo radio-tsentra. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1954. 25 p. [Microfilm]
(Radio--Antennas) (MLRA 9:1)

ZHUKOV, V., inzhener.

Abstract criterion of ship engine speeds. Mor.flot 7 no.5:27-29 My '47. (MLRA 9:5)

(Engines, Marine)

ZHUKOV, V. PA 22T87

USSR/Naval Science Sep 1947
Propellers, Marine
Ships, Ice Breakers

"Strength of the Blades of Icebreaker Screw Propellers," V. Zhukov, 2 pp

"Morskoy Flot" No 9

The author gives a list of mathematical formulas which can be used for the calculation of the strength of the blades of screw propellers, and especially of those with which icebreakers are equipped.

22T87

ZHUKOV, V. Eng.

Electric Lines

Practical calculation of low-voltage lines according to a table. Nov. nauk. i tekh., No. 2, 1948.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

ZHUKOV, V. PA 33/49157

USSR/Engineering Nov 48
Ships - Construction
Shipbuilding

"New Books on Tugboat Design," V. Zhukov, Naval Engr, 2 pp

"Morskoy Flot" Vol VIII, No 11

Describes a series of books published by A. K. Osmolovskiy, said to be the leading USSR specialist on tugboat construction. Recommends their reading by all marine engineers in this field.

[redacted] 33/49157

ZHUKOV, V.

"Vessels-Atomic Propulsion" an article in the publication Problems of the Use of Atomic Energy. October, 1956., Moscow

ZHUKOV, V. and ASTASHKOV, P.

Combat Helpers of Flyers. 1956. (Boyevyye pomoshchniki letchikov).

ZHUKOV, V.

Floating center. Mashinostroitel' no.4:25 Ap'64 (MIRA 17:7)

ZHUKOV, V., inzhener-mayor, kand. tekhn. nauk; BELOVA, T., inzhener-tekhnolog.

Polymers came to the field. Tekh. i vooruzh. no.6 61-63 Je '64
(MIRA 17:7)

ZHUKOV, V.

Improved shot-blasting drum. Mashinostroitel' no.7:25 Jl '64.
(MIRA 17:8)

LYUBIMOV, V.A., inzh.; Prinimali uchastiye: GULYAYEVA, R., laborant; YEVDOKIMOVA, V., laborant; KHRUSTALEV, P., rabotnik; ZHUKOV, V., rabotnik; CHUMAKOV, M., rabotnik

Automatic AT2-250-Sh loom for woolen fabrics. Nauch.-issl. trudy TSNIISHersti no.17:76-85 '62. (MIRA 17:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti (for Gulyayeva, Yevdokimova). 2. Shuyskiy mashinostroitel'nyy zavod (for Chumakov).

STOROZHEV, N., kand. tekhn. nauk; ZHUKOV, V.; KISLYAKOV, A.

The UDR-20 universal double-lock automatic coupling mechanism. Rech. transp. 24 no.7:30-31 '65. (MIRA 18:8)

1. Vedushchiy konstruktor NPKB (for Zhukov). 2. Glavnyy inzh. Moryakovskoy remontno-ekspluatatsionnoy bazy (for Kislyakov).

ZHUKOV, V., inzh.

Optical device for evaluationg the quality of the roughened surface of rubber. Avt. transp. 43 no.6:55 Je '65.
(MIRA 18:6)

ZHUKOV, V.

Innovators at the Kirov Plant. Mashinostroitel' no.11:11-12
N '64 (MIRA 18:2)

ZHUKOV, V., inzh.-elektrik

Prepare carefully cards for the exchange of technical information. Muk.-elev. prom. 29 no.4:32 Ap '63. (MIRA 16:7)

1. Leningradskoye oblastnoye upravleniye khleboproduktov.
(Grain-milling machinery)

ZHUKOV, V.

Improve the packing of sliding-type gates on high-pressure lock chambers. Rech. transp. 21 no.10:52 O '62.
(MIRA 15:10)

1. Nachal'nik Verkhne-Svirskogo gidrouzla.

(Locks(Hydraulic engineering))

ZHUKOV, V., inzh. - mayor

Dependable shield of our country. Voen. znan. 38 no.2:25-26 F '62. (MIRA 15:2)

(Rockets (Ordance))