

PHASE I BOOK EXPLOITATION

SOV/4338

Timofeyev, Pavel Vasil'yevich

Smazochno-okhlazhdayushchiye zhidkosti primenyayemye pri rezanii metallov
(Lubricating and Cooling Fluids Used in Metal Cutting) Moscow, Mashgiz,
1960. 114 p. 7,000 copies printed.

Reviewer: V.S. Radchik, Candidate of Technical Sciences, Docent; Ed.: M.S. Soroka;
Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel of machinery-manufacturing
plants working in metal cutting.

COVERAGE: The author presents information on lubricating-cooling fluids used in
the machining of metals and discusses their effect on the physical and process-
ing characteristics of metal cutting. Special attention is given to problems of
selecting lubricating-cooling agents for different types of machining and to re-
cently developed efficient methods of cooling and lubrication. The author thanks
Academician P.A. Rebinder for his advice and suggestions. There are 28 refer-
ences, all Soviet.

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Lubricating and Cooling Fluids (Cont.)

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Lubricating and Cooling Fluids (Cont.)

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III. Special Methods of Lubrication and Cooling in Metal Cutting

68

Pressure-jet cooling

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AVAILABLE: Library of Congress

Card 3/3

VK/pw/gmp
10-12-60

TIMOFEYEV, P.V., kand. tekhn. nauk

Lubricating and cooling fluid. Mashinostroitel' no.10:19 0 '65.
(MIRA 18:10)

BERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn. nauk, prof., red.; SOTSKOV, B.S., doktor tekhn. nauk, red.; AGEYKIN, D.I., doktor tekhn. nauk, red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.; CHELYUSTKIN, A.B., doktor tekhn. nauk, red.; PROKOF'YEV, V.N., doktor tekhn. nauk, prof., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I., doktor tekhn. nauk, red.; KRINITSKIY, N.A., kand. fiz.-matem. nauk, red.; KOGAN, B.Ya., doktor tekhn. nauk, red.; USHAKOV, V.B., doktor tekhn. nauk, red.; LERNER, Yu.A., doktor tekhn. nauk, prof., red.; FEL'DBAUM, A.A., prof., doktor tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, dots., red.; KHARKEVICH, A.A., akad., red.; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; LEVIN, G.A., prof., red.; LOZINSKIY, K.G., doktor tekhn. nauk, red.; NETUSHIL, A.V., doktor tekhn. nauk, prof., red.; POPKOV, V.I., red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.; LIVSHITS, A.L., kand. tekhn. nauk, red.

[Automation of production and industrial electronics] Avtomatizatsiia proizvodstva i promyshlennaia elektronika; entsiklopediia sovremennoi tekhniki. Moskva, Sovetskaia Entsiklopediia. Vol. 3. Pogreshnost' resheniia - Teleizmeritel'naia sistema chastotnaia. (MIRA 17:10) 1964. 487 p.
I. Chlen-korrespondent AN SSSR (for Sotskov, Gavrilov, Timofeyev, Popkov).

L 2896-66 EWT(m)/EPF(c)/ENA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c) MJH/JD/

HW/DJ

ACCESSION NR: AP5023347

UR/0304/65/000/005/0033/0035
621.564+669.018.25

AUTHOR: Timofeyev, P. V. (Engineer)

48
5

TITLE: Effectiveness of applying lubricating-cooling substances to mechanical working of a heat resistant alloy

SOURCE: Mashinostroyeniye, no. 5, 1965, 33-35

TOPIC TAGS: lubricant, lubricant filler additive, alloy, steel, wear resistance, coolant/ EI765 alloy

ABSTRACT: A detailed investigation was carried out to evaluate the effectiveness of applying oil-coolants to cutting tools during the cutting process of heat resistant alloys such as EI765 (nickel base). A total of 30 lubricant-coolant compounds was tested with various additives, such as chlorine, phosphorus, and sulfur. Two indices of comparison were used: decrease in the P_y component of the cutting force, and decrease in cutter wear over a period of 30 seconds. Forces were measured using wire counters and a dynamometer. The force test showed that the cooling effectiveness of the lubricants increases when one substitutes fatty oils or fatty alcohols in place of oleic acids. At 22.7 m/min cutter speeds most

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L 2896-66

ACCESSION NR: AP5023347

of the lubricant-coolants used had little effect on the instrument wear, with the exception of water-activated fluids. In general, the best antifriction lubricant-coolants were found to be those oils that contained chlorine and sulfur additives. It is concluded that the most effective lubricant-coolant would be a synthetic system consisting of a water solution with chlorine and sulfur as additives. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: FP

NO REF SOV: 000

OTHER: 000

kc
Card 2/2

TIMOFEYEV, P.V.

Effect of the Coolant on the Quality of the Machined Surface. 62
P. V. Timofeyev. (*Stanki i Instrumenty*, 1952, (4), 21-22).
(In Russian). The results are presented of an investigation of the effect of cooling-lubricating fluids on the extent of transverse surface-roughness in the machining of a structural steel, a tool steel, and a heat-treated heat-resisting steel. The following fluids were used: Paraffin; paraffin + 0.2% oleic acid; paraffin + 0.5% oleic acid; an emulsion containing 2% sulfonated castor oil + 0.5% soda; and an oil mixture. The effectiveness of the different fluids in producing smoother surfaces is compared for the various steels and machining speeds.—S. X.

TIMOFEEV, P.V.

3

226/112

621.9.01 :621.892

Effect of Cutting Speed on the
Efficiency of Lubricating Liquids

Stanki.Instrum.
(1),15
Jan.,1954
U.S.S.R.

P.V. Timofeev

A graph and the results of studies on the change in efficiency and composition of lubricating liquids during the high-speed cutting of metals are presented. Formulae for calculating high speed cutting of metals, and the geometric configuration of the cutting tool used in above operation are given.

TIMOFEEV, P.V.

USSR/Engineering - Indicating instruments

Card : 1/1 Pub. 128 - 23/32

Authors : Timofeev, P. V.

Title : A two-component (mechanical & electrical) vibration indicator.

Periodical : Vest. mash. 34/7, 72 - 73, July 1954

Abstract : The author of this article, and V. K. Skorikov, designed a device for indicating vibrations during metal machining. The operation, structure, and performance of the vibration indicator, are described, and diagrams depicting the individual components are presented. Graph.

Institution : ...

Submitted : ...

S/123/59/000/010/012/068
A004/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 10, p.
79, # 37790

AUTHOR: Timofeyev, P.V.

TITLE: The Effects of Lubricating and Cooling Agents on the Steel Cutting
Process

PERIODICAL: Nauchn. zap. Khar'kovsk. in-t mekhaniz. s.kh., 1958, No. 8,
pp. 31-41

TEXT: The author presents results of an experimental investigation of the effects of lubricating and cooling agents (50% sulfofrezol, 10% boiled oil and 40% turpentine) on the characteristics of the cutting process. The tests were carried out during the free cutting of steel with three P18 (R18) high-speed steel cutting tools with a plane front edge and the following geometry: $\gamma = 0^\circ$, 10° , 20° , 30° , 40° ; $\alpha = 8^\circ$; $\lambda = 0^\circ$. The thickness of the layer to be cut off was between 0.05 and 0.25 mm, the cutting speed was 3 m/min. The cutting stresses P_z and P_y were determined by a two-component dynamometer with wire resistance

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S/123/59/000/010/012/068
A004/A001

The Effects of Lubricating and Cooling Agents on the Steel Cutting Process

pickups, the non-uniformity of the cutting process by a loop oscillograph, the hardening of the material was measured with the aid of the Khrushchev-Bertkovich device by the coldhardening - X-ray method, while the surface finish was determined with the aid of the Linnik double microscope. It was found that the use of lubricating and cooling fluids promotes the conversion of the elemental chip into a continuous one and reduces the chip curling radius. Besides, it facilitates the plastic deformation of the metal, reduces the chip hardness by 30-40% and its shrinkage, considerably lowers the cutting stresses, reduces the friction force and the normal force at the tool front edge, attenuates the irregularity of the cutting stresses and reduces their dependence on γ . The right selection of lubricating and cooling agents makes it possible to increase the efficiency of the cutting process, reduce the wear of the tool and machine tool, and improve the surface finish by 1-2 classes. There are 10 figures. ✓

B.L.D.

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

Card 2/2

TIMOFEYEV, P.V.

IOKHELES, F.Ya. [Iokheles, F.IA.]; LENIVKINA, O.S. [Lenyvkina, O.S.];
TIMOFEYEV, P.V. [Tymofeiev, P.V.]; PAGUR, O.G. [Pahur, O.H.]

Substitute for oil in honing. Mekh. sil'. hosp. 9 no.2:28-29
F '58. (MIRA 11:3)

1.Kharkivs'kiy institut mekhanizatsii sil's'kogo gospodarstva (for
Iokheles, Lenivkina, Timofeyev). 2.Kharkivs'kiy traktorniy zavod
(for Pagur).
(Metalworking lubricants)

TIMOFEYEV, Pavel Vasil'yevich; RADCHIK, V.S., dotsent, kand.tekhn.nauk,
retsensent; SOROKA, M.S., red.; SOROKA, M.S., red.

[Lubricating and cooling fluids used in metal cutting] Smazochno-
okhlazhdaiushchie zhidkosti, primeniaemye pri rezanii metallov.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.
114 p. (MIRA 13:7)

(Metalworking lubricants)

1965, 42
"Bulletin" izobreteniy i tovarnykh znakov, no. 3, 1965, 42

TIMOFEYEV, Pavel Vasil'yevich [Tymofisiiev, P.V.]; KOROLENKO, I.I., red.;
YEROSHENKO, T.G. [Yeroshenko, T.H.], khud.-tekhn.red.

[Fundamentals of interchangeability and technical measurements;
manual for institutes and faculties of farm mechanization]
Osnovy vzaiemozaminnosti ta tekhnichni vymiruvannia; uchbovyi
posibnyk dlia instytutiv i fakul'tetiv mekhanizatsii sil's'koho
hospodarstva. Kyiv, Derzh. vyd-vo sil's'kohospodars'koi lit-ry
URSR, 1961. 201 p. (MIRA 15:5)
(Interchangeable mechanisms) (Measuring instruments)
(Tolerance (Engineering))

KOZLOV, I.V., dorozhnyy master (stantsiya Kiik Tashkentskoy dorogi);
TEYEVIRE, A.V., dorozhnyy master (stantsiya Elva Estonskoy dorogi);
PODKLAD, P.I., brigadir puti (stantsiya Perm'); LOGVIN, F.G.;
NUKKA, R.Ya.; PUTNIK, N.M., dorozhnyy master (stantsiya Almaznaya
Donetskoy dorogi); TIMOFEYEV, S.

Give us an answer. Put' i put. khoz. no.5:41-42 My '58.
(MIRA 13:3)

1. Starshiy dorozhnyy master, stantsiya Beshtau Ordzhonikidzevskoy dorogi
(for Logvin).
2. Nachal'nik distantsii, g. Pyarnu (for Nukka).
3. Starshiy dorozhnyy master, stantsiya Karachev Moskovsko-Kiyevskoy
dorogi (for Timofeyev).
(Ballast (Railroads))

TIMOFEYEV, S.

Accounting in capital construction. Bukhg.uchet 14 no.11:16-23
N '57. (MIRA 10:11)
(Construction industry--Accounting)

TIMOFEYEV, S.

Improve accounting for construction and installation work.
Bukhg.uchet 15 no.10:6-15 0 '56. (MLRA 9:11)
(Construction industry--Accounting)

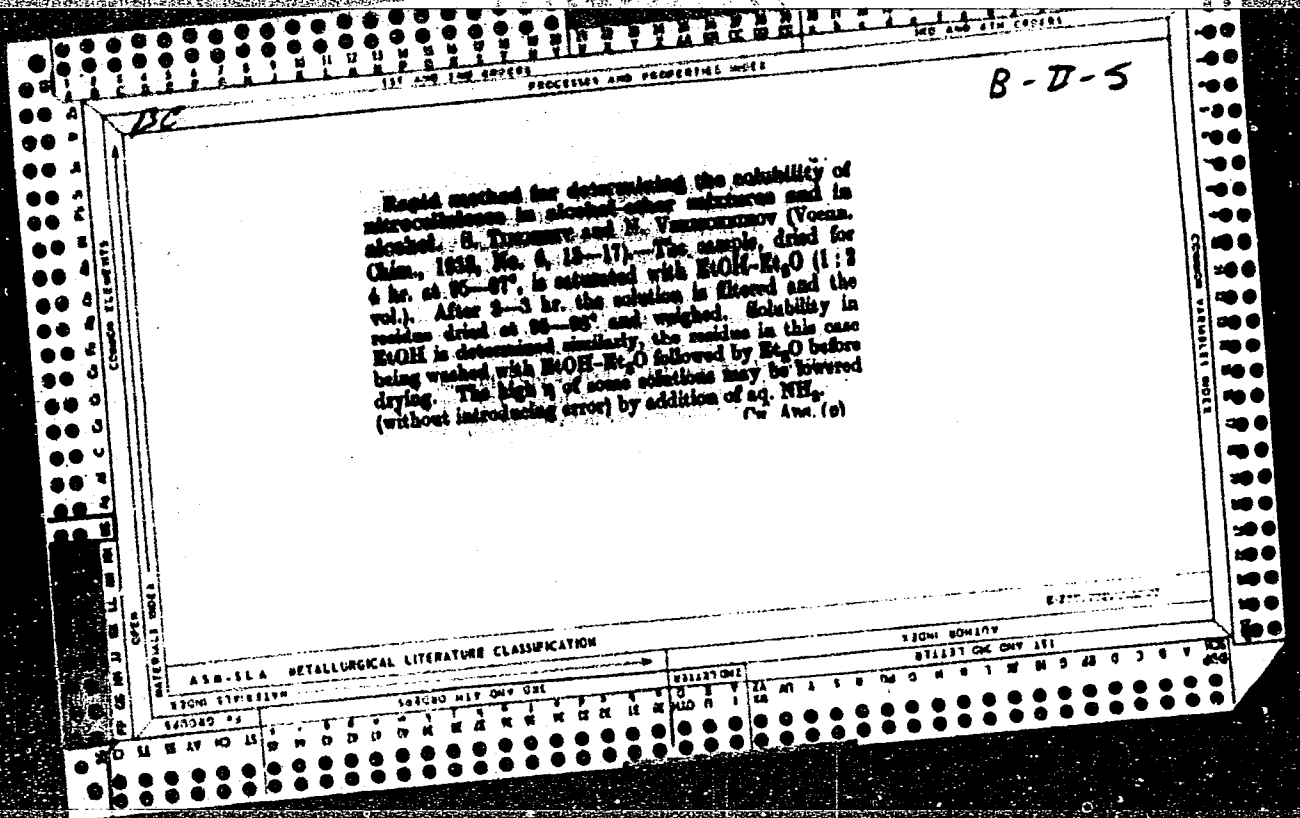
TIMOFREYEV. S.

Party leadership of mass defense work. Voen. znan. 33 no.2:23-25
F '57. (MLBA 10:4)

1. Sekretar' Tulskego obkoma Kommunisticheskoy partii Sovetskogo
Soyuza.
(Military education)

A more rapid method for the determination of the solubility of nitrocelluloses in alcohol-ether mixtures and in alcohol. S. Timofeyev and N. Verishnikov. *Voennaya Khim.* 1933, No. 6, 15-17; *Chem. Zvest.* 1934, 11, 170-7. — A shortening of time by 35 hrs. is realized by the following method: Sat. 0.5 g. (pyroxylin) or 1.8 g. (colloxylin) of the nitrocellulose, dried 4 hrs. at 95-7°, with 50 cc. alc. and 100 cc. ether added during the course of 1-2 min. Stir 15 min. and allow to stand 2 (colloxylin) or 3 hrs. (pyroxylin). In testing the soly. in alc., add 150 cc. alc. with stirring, after 2.5 hrs. stir the mixt. 15 min. and allow to stand another 0.5 hrs. Filter through a filter which has been treated with alc. and ether, dried 1 hr. at 95-8° and weighed; wash the residue twice with 20 cc. alc. and ether (1:2), then with 10-15 cc. ether, and dry the residue and filter to const. wt. (about 2 hrs.) at 90-8°. The high viscosity of many solns. can be lowered without essential error by the addn. of 5 cc. 15-20% NH₃. In the alc. extrn. wash the filter only with alc. The mean variation from the usual method is 0.02-0.25%.
 W. A. Moore

METALLURGICAL LITERATURE CLASSIFICATION
 A S M I S L A



TIMOFEYEV, S., inzh.

Designing foundations of large-panel apartment houses. Na stroi.
Ros. 4 no.5:21-22 My '63. (MIRA 16:5)
(Foundations--Design and construction)
(Apartment houses)

KHESIN, G., kand. tekhn. nauk; SAVOST'YANOV, V., kand. tekhn. nauk.;
TIMOFEYEV, S., inzh.

Study by the photoelastic method of the static performance of
pile grating under a panel. Zhil. stroi. no. 11:9-13 '64
(MIRA 18:2)

USSR/Medicine - Anesthesia, Procaine and Procaine Compounds Mar 48

Medicine - Procaine and Procaine Compounds

"Problem of Prolonging Novocain Anesthesia," S. A. Timofeyev, Chair of Gen Surg, Voronezh Med Inst, 4 1/2 pp

"Vest Khirurgii" Vol LXVIII, No 3

Novocain is least toxic of existing local anesthetics. Unfortunately, its effect does not last long enough for complicated operations. Studies diffusion of Novocain in various organic solutions. Concludes that starch, carpenter's glue and gum arabic retard Novocain diffusion, as do glucose, beet sugar and

17/49T96

USSR/Medicine - Anesthesia, Procaine and Procaine Compounds (Contd) Mar 48

flavored infusion to a lesser extent. Summarizes results of surgical operations performed under prolonged Novocain anesthesia.

17/49T96

TIMOFEYEV, S. A.

TIMOFEEYEV, S.A., zasluzhenny vrach USSR (Lubny)

Man, writer, physician. Vrach.delo no.5:535-537 My '60. (MIRA 13:11)
(CHEKHOV, ANTON PAVLOVICH, 1860-1904)

TIMOFEYEV, S.G., inzhener.

Mechanization of the upkeep of peat fields. Torf.prom. 31 no.4:7-8 '54.
(MLRA 7:6)

1. Shuvalovskoye torfopredpriyatiye. (Peat industry)

TIKOFEYEV, S. G.

Peat Industry

Operation of the roller VUF-2 with rubber working rim. Torf. prom. 2: no. 5, 1952

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

TIMOFEEV, S. G.

1954
Feb

✓ 4191. MECHANIZATION OF MAINTENANCE OF MILLED PEAT FIELDS.
Timofeyev, S. G. (Turf. Prom. (Peat Ind., Moscow), Apr. 1954, 7, 8).
Descriptions are given of machines, with illustrations of a grubber, a
tractor for tree stumps and a chain-digging plough. The organization of
maintenance teams is outlined. (L).

NIKITIN, A.I., prof., otv. red.; DOBYCHIN, B.D., prof., zam. otv. red.;
ABRAMOV, K.T., dots., red.; KAZANTSEV, A.I., prof., red.;
TIMOFEEV, S.I., prof., red.; KHODOS, Kh.B., prof., red.;
BOLOTOV, M.P., prof., red.; SHERSHNEV, P.A., prof., red.; VAYS,
S.I., prof., red.; KLIMOV, K.A., dots., red.; SEMENOV, V.V., dots.,
red.; KARNAKOV, B.I., dots., red.;

[Materials on the influence of physical, chemical and biological factors on the animal and human organism] Materialy o vliianii fizicheskikh, khimicheskikh i biologicheskikh faktorov na organizma zhivotnykh i cheloveka. Irkutsk, 1961. 317 p. (MIRA 15:12)

1. Irkutsk. Gosudarstvennyy meditsinskiy institut. 2. Zaveduyushchiy kafedroy terapevticheskoy stomatologii Irkutskogo meditsinskogo instituta (for Vays). 3. Zaveduyushchiy kafedroy fakul'tetskoy khirurgii Irkutskogo meditsinskogo instituta (for Dobychin). 4. Zaveduyushchiy kafedroy infektsionnykh bolezney Irkutskogo meditsinskogo instituta (for Karnakov). 5. Zaveduyushchiy kafedroy normal'noy fiziologii Irkutskogo meditsinskogo instituta (for Nikitin).

(PHYSIOLOGY, PATHOLOGICAL)

USSR / Human and Animal Morphology, Normal and Pathological.
Lymphatic System.

5

Abs Jour : Rec Zhur - Biol., No 8, 1958, No 36022

Author : ~~Timofeyev, S. I.~~; Narinskaya, Kh. I.
Inst : Irkutsk University, Bio-Geographical Scientific and Research
Institute.

Title : The Reflection in the Structure and Ontogenesis of Mammals'
Bones of Their Philogenesis.

Orig Pub : Izv. Biol.-geogr. n.-i. in-ta pri Irkut. in-te, 1956, 16,
No. 1-4, 279-299.

Abstract : The aim of this work is to develop an understanding of the
bones' structure, based upon conditions of the evolution of
animals. A study was made of the structure and development
of certain bones of the skull in man and, partly in a macaque,
and also of the tubular bones in representatives of carnivora,
ungulates and primates. In the composition of bones, there

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NIKITIN, A.I., prof., otv.red.; DOBYCHIN, B.D., prof., zam.otv.red.;
ABRAMOV, K.T., kand.med.nauk, red.; KAZANTSEV, A.I., prof.,
red.; TIMOFEYEV, S.I., prof., red.; KHODOS, Kh.B., prof., red.;
BOLOTOV, M.P., prof., red.; SHERSHNEV, P.A., prof., red.;
VAYS, S.I., prof., red.; KLIMOV, K.A., dotsent, red.; SEMENOV,
V.V., dotsent, red.; DONSKOV, V.V., dotsent, red.; KARNAKOV,
B.I., dotsent, red.; KRAKAU, S.I., red.

[Collection of works of the Irkutsk State Medical Institute
devoted to its 40th anniversary] Sbornik trudov Irkutskogo
gosudarstvennogo meditsinskogo instituta, posviashchennyi
40-letiiu so dnia ego osnovaniia. Irkutsk, 1959. 442 p.

(MIRA 14:1)

1. Russia (1917- R.S.F.S.R.) Ministerstvo zdarvookhraneniya.
2. Zaveduyushchiy kafedroy normal'noy fiziologii Irkutskogo meditsinskogo instituta (for Nikitin).
3. Zaveduyushchiy fakul'tetskoy khirurgicheskoy klinikoy Irkutskogo gosudarstvennogo meditsinskogo instituta (for Dobychin).
4. Zaveduyushchiy kafedroy biokhimii Irkutskogo meditsinskogo instituta (for Shershnev).
5. Zaveduyushchiy kafedroy propedevtiki vnutrennikh bolezney Irkutskogo meditsinskogo instituta (for Karnakov).

(MEDICINE)

TIMOFEYEV, S.M.

Selecting the insensibility zone of automatic water level indicators
for irrigation canals. Izv.AN Uz.SSR. Ser.tekh.nauk no.6:74-77
'61. (MIRA 14:12)

1. Institut energetiki i avtomatiki AN Uzbekskoy SSR.
(Liquid level indicators) (Automatic control)

TIMOFEYEV, S.M.

Reliability of silicon solar batteries for electric power supply
to apparatus in telemechanic systems split into dissociated
units. Izv. AN Uz.SSR Ser.tekh.nauk no.5:18-24 '61.
(MIRA 14:11)

1. Institut energetiki i avtomatiki AN UzSSR.
(Solar batteries)
(Automatic control)

TIMOFEYEV, S.M.

Introduction of automatic equipment for protection of irrigation structures where inadmissibly rapid changes of water horizon occur.
Izv. AN Uz. SSR. Ser. tekhnauk no.6:17-21 '60. (MIRA 14:1)

1. Institut energetiki i avtomatiki AN UzSSR.
(Automatic control) (Hydraulic structures)

TIMOFEYEV, S. M.

"Investigation of an Electric Device for the Automation Control of Rotational Speed in Water Turbines with a Sensitive Element Operation According to the Electrodynamical Principle." Official opponents: N. N. Shchedrin, Professor, Doctor of Technical Sciences and M. Z. Khamudkhanov, Docetn, Candidate of Technical Sciences.

Dissertation for the Degree of Candidate of Technical Sciences, Defended at Inst for Power Engineering AS Uzbek SSR. February 21, 1953. (Elektrichestvo, 1958, Nr 6, pp. 93-93.)

TIMOFEYEV, S.M.

TIMOFEYEV, S.M.

Speed regulator with a frequency-sensitive element operating on
an electrodynamic principle. Trudy Inst.energ.AN Uz.SSR no.10:175-187
'57. (MIRA 10:11)

(Hydroelectric power stations)

6.1210 (1031)

29650
S/167/61/000/005/001/003
D249/D302

AUTHOR: Timofeyev, S.M.

TITLE: Reliability of silicon solar batteries for supplying dispersed telemechanical control installations

PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya tekhnicheskikh nauk, no. 5, 1961, 18-24

TEXT: The applicability of silicon solar batteries for supplying unspecified telemechanical equipment for irrigation, gas, and oil installations in sparsely populated areas of (Soviet) Central Asia was investigated as a result of the conclusion that this form of supply was more reliable and economical than other devices for utilizing solar energy or the conventional low-voltage power distribution system. The investigation was started with an examination of the atmospheric and solar-radiation data for the town of Tashkent. It was found that for this locality, the average number of cloudy days per year is <40 with the longest uninterrupted cloudy period of 8.65 days. The intensity of solar radiation in

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D249/D302

Reliability of silicon ...

winter is 2000 Kcal/m²/day and in summer it reaches 8500 Kcal/m²/day. These two figures are the limits of the quoted frequency distribution curve which was compiled for a period of 25 years. The 50% value on this curve corresponds to 4800 Kcal/m²/day. Two similar batteries were used in the comparative exposure tests designed to show the additional benefit of equipping the battery with auxiliary equipment consisting of light-condensing mirrors and a sun-tracking device. The tests were carried out between 11 and 17 hours, during which period outputs of up to 2.6 W were recorded. The results of the tests are tabulated and shown on graphs which indicate a 3-5 times increase in the battery output due to the use of the auxiliary equipment. The consumption of the tracking device was low, about 0.35% of the total energy produced. Another series of tests was made to investigate the behavior of solar batteries exposed to low-intensity radiation. This problem is of interest since the charging efficiency of the conventional accumulator working in parallel with the battery is voltage dependent. Alternatively stated, it is important to know the validity limits of the equation

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Reliability of silicon ...

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$$P = kS\Phi \quad (3)$$

P - power developed by photo converter, S - battery active area, Φ - luminous flux, k - battery dependent coefficient. It was found that for the battery under investigation, the lower limit of intensities for which Eq. (3) is fulfilled is 105 W/m². If radiation values below this limit are to be utilized, the solar battery has to be equipped with additional charging-voltage control devices. The relations between the quantities investigated in these tests are shown graphically. The last two tests made concerned the behavior of the battery under natural air pollution conditions and its weather ability. In the first test the outputs of two batteries were measured after 45 days of exposure, just before and after cleaning. The batteries were located near a road, one placed horizontally, and the other slanting. The reductions in the power output of these two batteries due to the pollution amounted to

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Reliability of silicon ...

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D249/D302

approximately 14 and 7% respectively; These two figures correspond to the discontinuity, due to the cleaning, on the recorded graph of power v. hours. In the second test the batteries were exposed unattended for 10 months during which period the temperature varied from below freezing point up to 95°C. Apart from a few minor constructional defects, no deterioration has been observed. The author's final conclusions are that in view of their low maintenance costs and reliability under all weather conditions, the solar batteries equipped with auxiliary devices are suitable as power generators for unattended telemechanical equipment in (Soviet) Central Asia. There are 4 figures, 1 table and 3 Soviet-bloc references. X

ASSOCIATION: Institut energetiki i avtomatiki AN UzSSR (Institute of Power Engineering and Automation, AS UzbekSSR)

SUBMITTED: June 1, 1961

Card 4/4

Timofeyev, S.P.
TIMOFEYEV, S.P.

Economic accountability in the construction industry. Nov. tekhn. i
pered. op. v stroi., no.11:30-36 N '57. (MIRA 10:12)
(Construction industry--Accounting)

TIMOFEYEV, Sergey Pavlovich; KOROTKOVA, L., red.; LEBEDEV, A., tekhn.red.

[Business accounting and bookkeeping in construction organizations]
Khozraschet i bukhgalterskii kontrol' v stroitel'nykh organi-
zatsiakh. Moskva, Gosfinizdat, 1958. 187 p. (MIRA 12:3)
(Construction industry--Accounting)

PROTOPOPOV, S.N.; TIMOFEYEV, S.P., nauchnyy red.; GERASIMOVA, G.S.,
red.izd-va; NAUMOVA, G.D., tekhn.red.

[Accounting in capital construction] Bukhgalterskii uchet
v kapital'nom stroitel'stve. Izd.2., dop. i perer. Moskva,
Gos.izd-vo lit-ry po stroit., arkh. i stroit.materialam,
1960. 270 p. (MIRA 14:1)
(Construction industry--Accounting)

BAKANOV, M.I., prof.; TATUR, S.K., prof.; KOPNYAYEV, V.P.; MASSARYGIN,
P.S.; SHEREMET, A.D.; TIMOFEYEV, S.P.; NEDELIN, S.I.; KONDRAT'YEVA,
A., red.; TELEGIINA, T., tekhn.red.

[Course in the analysis of administrative operations] Kurs analiza
khoziaistvennoi deiatel'nosti. Moskva, Gosfinizdat, 1959. 480 p.
(MIRA 13:4)

(Industrial management)

Timofeyev, Sergey Pavlovich

Khozraschet i bukhgalterskiy kontrol' v stroitel'nykh organizatsiyakh
(Cost accounting and book-keeping control in building organizations)
Moskva, Gosfinizdat, 1958.
187 p. Tables. Bibliographical Footnotes.

TIMOFEYEV, S.P.

Planning and computing the net cost of construction work in
Czechoslovakia. Nov.tekh.i pered.op.v stroi. 19 no.10:15-18
0 '57. (MIRA 10:11)
(Czechoslovakia--Construction industry--Accounting)

TIMOFEYEV, S.P.

Putting order into and shortening account records and initial documentation
in construction work. Stroi.prom. 32 no.5:24-28 My '54. (MLRA 7:6)
(Building--Accounting)

TIMOFEYEV, Sergey Pavlovich; KUZNETSOV, P.V., red.; PONOMAREVA, A.A.,
tekh. red.

[Economic analysis of the activity of contracting building organizations] Ekonomicheskii analiz deiatel'nosti podriadnykh stroitel'nykh organizatsii. Moskva, Izd-vo ekon.lit-ry, 1961. 127 p.

(MIRA 14:12)

(Construction industry)

ZUNDELEVICH, M.I.; TIMOFEYEV, S.S.

New technology in manufacturing hydrogenerators. Elektrosila no.14:
83-92 '56. (MIRA 12:12)
(Electric generators)

TIMOFEYEV, S.S.

Instruments for measuring large diameters and lengths. Elektrosila
no.14:98-102 '56. (MIRA 12:12)
(Measuring instruments)

TIMOFEYEV, S.S.

Use of pneumatic bolting devices for pressure application to active
steel of electric machines. Elektrosila no.14:103-104 '56.

(MIRA 12:12)

(Pneumatic tools) (Electric machinery)

TIMOFEYEV, S.V.

Calculating grillage beams for panel-type buildings. Osn., fund.
i mekh.grun. 5 no.6:19-23 '63. (MIRA 16:12)

TIMOFEEV, S.V.; YUSHIN, A.I.; SHEDOVA, S.N.

Study of the joint action of grillage and wall panels standing
on the full-scale reinforced concrete units. Osn., fund. i mekh.
gran. 7 no.5:18-21 '65. (MIRA 18:10)

GOBZEMIS, A.; GOROBETS, V.; TIMOFEYEV, T.

Using electronic computers in traction calculations for determining the time of train movements in the runs between stops. Izv.AN Latv.SSR no.2:18-25 '63. (MIRA 16:4)

1. Institut elektroniki i vychislitel'noy tekhniki AN
Latviyskoy SSR.
(Railroads—Management) (Electric computers)

TIMOFEYEV, T., otv. red.; MAYDANIK, K., red.; PESCHANSKIY, V., red.;
FOMENKO, I.P., red.; MESHALKIN, V.I., tekhn. red.

[Class struggles are shaking the capitalist world; A new
surge of the revolutionary worker's movement]Klassovye bit-
vy sotriassaiut mir kapitāla, novyi pod"em reboliutsionnogo
rabocheho dvizheniia. Moskva, Profizdat, 1962. 334 p.
(MIRA 16:3)

(Labor and laboring classes)

TIMOFEYEV, T., red.; YUDANOV, Yu., red.; ULANOVA, L., tekhn.red.

[New forms of exploitation and the workers' movement; materials on the exchange of opinions among Marxists in a number of European, American and Asiatic countries on the problem of the theory and practice of "human relations" in capitalistic enterprises] Novye formy ekspluatatsii i rabochee dvizhenie; materialy obmena mneniami mezhdou marksistami riada stran Evropy, Ameriki i Azii po voprosu teorii i praktiki "chelovecheskikh otnoshenii" na kapitalisticheskikh predpriistiiakh. Rim, 13-15 oktiabria 1958 g. Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1960. 343 p.

(MIRA 13:7)

(Industrial relations)

(Labor and laboring classes)

TIMOFFYEV, T., (Engr-Lt Col)

"Increase the Emission of Jet / Aircraft / Materiel Textbooks" - Engr-Col M. Nemirovskiy, Engr-Lt Col T. Timofeyev, Engr-Capt V. Dolgorukov, and Engr-Sr Lt V. Starostin complain of the shortage of textbooks and manuals on jet aircraft materiel. Those textbooks which are available, in the estimation of these officers, are not satisfactory, and the good textbooks are too few in number. They state that in 1953 a group of officers from the Air Force Engineering Academy imeni Zhukovskiy prepared a textbook, but so few copies of the first part were printed that it has now become a rarity. They call on the Military Publishing House (Voyenizdat) and the State Publishing House of the Ministry of Defense USSR (Oborongiz) to rectify these shortages. (Krasnaya Zvezda, Moscow, 13 Apr 54).

SO: SUM 182, 13 August 1954

TIMOFEYEV, T.G.

Interconnection of the electric power systems in Western Europe and their further development (from "EP Working Paper," no.189, 1960). Prom.energ. 16 no.7:47-50 J1 '61. (MIRA 15:1)
(Europe---Interconnected electric utility systems)

TIMOFEEV, T.G.

New designs of power cables with ratings up to 15 kv. Prom.energ.
20 no.3:39-40 Mr '65. (MIRA 18:6)

SIKAFLEX, S.L., S.A.

Cable-filled cables with a 400 to 700 kv. voltage. Electrodes. 20 100.
no. 1: 01-27 JI-Ag '59. (NIRA 12:01)

(Electric cables)

TIMOFEYEV, T.G.

Interconnection of French and British power systems by a submarine cable under the English Channel. Prom.energ. 14 no.2:40-43 F '59.

(MIRA 12:3)

(France--Power engineering) (Great Britain--Power engineering)
(Cables, Submarine)

TIMOFEYEV, Timofey Grigor'yevich,; SERBINOVSKIY, G.B., red.; LARIONOV,
G.Ye., tekhn. red.

[Power production and utilization in France] Energokhoziaistvo
Frantsii. Moskva, Gos. energ. izd-vo, 1958. 85 p. (MIRA 11:11)
(France--Power plants)

И. КОРЕВ, И. Г.

Instructions on the installation of cable junction boxes. Moskva, Gosenergiziat,
1944. 82 p.

KOROL'KOVA, V.I.; TIMOFEYEV, T.G., spetsredaktor; VESELKINA, A., redaktor; SIMKINA, Ye., tekhnicheskii redaktor.

[Practical manual for technical inspectors from trade-union central committees] Pcsobie po prakticheskoi rabote tekhnicheskikh inspektorov TsK Profsoiuzov. Vol. 3. [Safety measures in the realm of electricity] Elektrobezopasnost'. [Moskva] Izd-vo VTsSPS profizdat, 1954. 179 p.

(MLRA 8:1)

(Electricity, Injuries from) (Electricity--Safety measures)

TIMOFEYEV, T.G.

Electric power consumption in the countries of Western Europe and prospects of its expansion. Prom.energ. 17 no.2:37-40 F '62.
(MIRA 15:3)
(Europe, Western--Electric utilities)

ZAYGEROV, Iosif Borisovich; prinalali uchastiye: GVOZDEVICH, A.M.,
SHMORGUN, Ya.Sh., inzh.; TIMOFEYEV, T.S., inzh.; ARAY, R.I.,
inzh., KULESHOVA, A.I., inzh.; GORODETSKIY, G.Ye., inzh.;
SOSNENKO, M.N., inzh. retsenzent; SIROTIN, A.I., red.;
BIL'KIND, V.D., tekhn. red.

[Reclamation of used sand mixtures; design of pneumatic reclaimers]
Regeneratsiia otrabotannykh smesei v liteinom proizvodatve; kon-
struktsiia i raschet pnevmaticheskikh regeneratov. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 181 p.

(MIRA 14:5)

1. Nachal'nik otdela mekhanizatsii Moskovskogo transformativnogo
zavoda (for Gvozdevich, Shmorgun, Timofeyev, Aray, Kuleshova,
Gorodetskiy)

(Sand, Foundry)

(Pneumatic machinery)

MAYDANIK, K.L., kand. ist. nauk; KISLYAKOV, V.S., kand. ist. nauk;
PETRANOVICH, I.M., kand. ekon. nauk; PESCHANSKIY, V.V., kand.
ist. nauk; USVYATSOV, A.Ye., kand. ekon. nauk; KHOLODKOVSKIY,
K.G.,; BURDZHALOV, F.E.; VIL'KHOVCHENKO, E.D.; MALOV, V.H.;
PETROVA, Z.A.; ARZUMANYAN, A.A., glav. red.; TIMOFEYEV, T.T., zam.glav.
red.; RYMALOV, V.V., red.; LYUBIMOVA, V.V., red.; SHEVLYAGIN,
D.P., red.; VEYNBERG, F., red.; DANILINA, A., tekhn. red.

[Labor movement in capitalist countries, 1959 - 1961] Rabochee
dvizhenie v kapitalisticheskikh stranakh, 1959 - 1961 gg. Mo-
skva, Gos. izd-vo polit. lit-ry, 1961. 583 p. (MIRA 14:12)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhduna-
rodnykh otnoshenii, 2. Sektor mezhdunarodnogo rabocheho i kom-
munisticheskogo dvizheniya Instituta mirovoy ekonomiki i mezhdu-
narodnykh otnosheniy (for Maydanik, Kislyakov, Petranovich,
Peschanskiy, Usvyatsov, Kholodkovskiy, Burdzhhalov, Vil'khovchenko,
Malov, Petrova).

(Labor and laboring classes)

Timofeyev, Timur
TIMOFEYEV, Timur Timofeyevich; ALEKSEYEV, F., red.; DANILINA, A., tekhn.red.

[Sparks of the October Revolution; influence of the October Revolution on the international labor movement] Iz iskr Oktiabria; vliianie Oktiabr'skoi revoliutsii na mezhdunarodnoe rabochee dvizhenie. Moskva, Gos.izd-vo polit-lit-ry, 1957. 55 p.
(Labor and laboring classes) (MIRA 11:2)
(Communism)

Country : USSR
Category : Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour : RZhBiol., No 6, 1959, No 24870

Author : Timofeyev, V.
Inst : Krasnoyarsk Scientific-Research Institute of
Agriculture.

Title : Experimental Work on the Potato in Yevenskiy
National District.

Orig Pub : Byul. nauchno-tekhn. inform. Krasnoyarskogo
no-1. in-ta s. kh., 1957, No. 1-2, 44-45

Abstract : On the Turin Base, 40 varieties and seedlings
with a brief vegetative period were tested, from
which the Courier, Berliingen and the variety
Marin Khrennikov were obtained. Berliingen pro-
duces largest harvests in years of favorable meteo-
rological conditions; Courier - in years of unfavo-
rable meteorological conditions, and the variety Ma-
rin Khrennikov - in moderately humid years. The

Card : 1/2

56

Country : USSR
Category : Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour : RZhBiol., No 6, 1959, No 24870

Author :
Inst :
Title :

Orig Pub :

Abstract : Courier variety is the most suitable for industrial planting purposes. To increase the total yield and to obtain an earlier harvest, potato tubers were grown for 20 days in moist humus (additionally, after a 20-day light vernalization). Germination of the grain material added 16-44 percent to the harvest in the course of 3 years and hastened the maturity period by 7-10 days. -- M. F. Sokolova

Card : 2/2

TIMOFEYEV, V., inzh.

Conference at the Lipetsk Tractor Plant. Trakt. i sel'khozmasht.
no.6247-48 Je*64 (MIRA 2727)

NOVIKOV, V. (Perm'); TIMOFEYEV, V. (Perm')

Experimental method for improving and strengthening business
accounting in an enterprise. Vop. ekon. no.8:142-144 Ag '63.
(MIRA 16:9)

(Industrial management)

VASIL'YEV, F.; TIMOFIYEV, V.

Chemistry in military science. Voen. znan. 35 no.7:17-18 J1 '59.
(MIRA 12:12)

(Chemical warfare)

PROKHA, Fedor Moiseyevich; MISHCHENKO, Ivan Stepanovich; TIMOFEYEV,
V.A., red.; AZAROVA, V.G., red.izd-va; KORNYUSHINA, A.S.,
teKhn.red.

[Manufacture of baguette] Proizvodstvo bageta. Moskva, Gos-
lesbumizdat, 1960. 41 p. (MIRA 14:4)
(Woodworking industries)

TIMOFEYEV, V.A.

Efficient machining of spherical surfaces. Mashinostroitel' no.10:
22-23 0 '59. (MIRA 13:2)
(Metal cutting)

TIMOFEEV, Vladimir Andreyevich, doktor tekhn. nauk, prof.;
MORDOVIN, B.N., prof., retsenzent; AVERKIYEV, L.S.,
kand. tekhn. nauk, nauchn. red.

[One hundred network problems in automatic control; a collection of exercises and problems in reading, checking, and composing the networks of automated devices and systems] Sto skhemnykh zadach po avtomatike; sbornik uprazhnenii i zadach po chteniiu, proverke i sostavleniiu skhem avtomatizirovannykh ustanovok i ustroistv. Lenin-grad, Sudostroenie, 1964. 151 p. (MIRA 17:11)

TIMOFEYEV, V.A.

Analyzing recordings made by instruments used in adjusting
controllers of production processes. [Trudy] LO NFO
Prihorprom no.4:5-34 '59. (MIRA 13:2)
(Recording instruments) (Automatic control)

TIMOFEYEV, V.A., prof., doktor tekhn.nauk; GEKTOR, D.S., starshiy prepodavatel'; MILLER, Ye.V., dotsent, kand.tekhn.nauk, otv.red.; VOL'PE, L., red.

[Instructions, course outlines and problems for the courses: Theory of automatic control and regulating devices for the field of "electrification of industrial plants"; Theory of automatic control and dynamoelectric control for the field of "electric machinery and apparatus"; Automatic control of boiler installations for the field of "boiler construction"; Automatic control and regulation of turbine installations for the field of "turbine construction"] Metodicheskie ukazaniia, programmy i kontrol'nye zadaniia po kursam: Teoriia avtomaticheskogo regulirovaniia i reguliatory dlia spetsial'nosti "elektrifikatsiia prompredpriiatii"; Teoriia regulirovaniia i elektromashinnaia avtomatika dlia spetsial'nosti "elektricheskie mashiny i apparaty"; Avtomaticheskoe regulirovanie kotel'nykh ustanovok dlia spetsial'nosti "kotlostroenie"; Avtomatizatsiia i regulirovanie turbinnykh ustanovok dlia spetsial'nosti "turbinostroenie." Leningrad, 1958. 50 p. (MIRA 12:1)

1. Severo-zapadnyy zaachnyv politekhnicheskii institut. Kafedra elektrifikatsii prompredpriyatii.
(Automatic control)

KOSSOVSKIY, Georgiy Nikolayevich, kand.tekhn.nauk; PETRUSHA, Aleksandr Karpovich, .kand.tekhn.nauk; TIMOFEYEV, V.A., red.; PROFANSKAYA, I.V., red.izd-va; PARAKHINA, N.L., tekhn.red.

[Practice in the operation of automatic production lines in wood-working] Opyt ekspluatatsii avtomaticheskikh lini v derevoobrabotke. Moskva, Goslesbumizdat, 1960. 77 p.

(MIRA 14:1)

(Assembly-line methods)

(Woodworking industries)

TIMOFEEYEV, V.A. , prof., doktor tekhn.nauk

Investigating the recording of industrial processes under
operating conditions for objective analysis of disturbances
and dynamic properties of observed units. Izv.vys.ucheb.zav.;
prib. no.5:84-93 '58. (MIRA 12:6)

1. Leningradskiy elektrotekhnicheskiy institut im. V.I.Ul'yanova
(Lenina).

(Production control)

RAYEVSKIY, K.S.; TIMOFEYEV, V.A.

Multichannel device for recording the motor activity of small laboratory animals (rats, mice). Biul. eksp. biol. i med. 59 no.6:114-116 Je '65. (MIRA 18:6)

1. Institut farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR i Spr'sial'noye konstruktorskoye byuro (nachal'nik Ye.M. Bazarny) Instituta radiotekhniki i elektroniki (dir. - akademik V.A. Kotel'nikov) AN SSSR, Moskva.

SKORYKH, S.S.; TIMOFEYEV, V.A.

New loading machine for Krivoy Rog Basin mines. Met. 1 gornorud. prom.
no.5:69 '64. (MIRA 18:7)

DEMENT'YEV, V.A., kand.tekhn.nauk; OSHANIN, D.A., kand.pedagog.nauk;
VENDA, V.F., inzh.; GROUNDON, R.R., inzh.; MEL'NIKOV, I.V., inzh.;
NECHAYEV, B.Ya., inzh.; RYBACHEV, N.V., inzh.; SMIGEL'SKIY, S.Ya.,
inzh.; STEPANOV, V.I., inzh.; TIMOFEYEV, V.A., inzh.; SHIROCHENSKIY,
V.I., inzh.

Control of the operation of an overall automatic block. Mekh.
i avtom.proizv. 19 no.2:47-52 F '65.

(MIRA 18:3)

SIMFOROV, G.Ye.; TIMOFEYEV, V.A.

Intensity of conducting major mining operations in
shaft bottom workings. Met. i gornorud. prom. no.6:
48-50 N-D '65. (MIRA 18:12)

SMIRNOVA, T.S.; STRELKOV, Yu.A.; TIMOFEYEV, V.A.; SHUL'MAN, S.S.

Nasal cavities of bony fishes as a habitat of parasites. Zool.
zhur. 43 no.11:1649-1658 '64. (MIRA 18:11)

1. Zoologicheskii institut AN SSSR, Leningrad.

SOV/92-58-7-14/37

AUTHOR: Timofeyev, V.A., Engineer

TITLE: ~~Our Experiments in Redesigning the Combined Unit (Nash opyt~~
rekonstruktsii kombinirovannoy ustanovki)

PERIODICAL: Neftyanik, 1958, Nr 7, pp 14 - 16 (USSR)

ABSTRACT: In 1945 a combined unit was put on stream at the Kuybyshev refinery. This unit included the straight-run petroleum distillation section yielding gasoline, ligroin and semi-mazout, the reforming section processing ligroin, and the two-furnace thermal cracking section processing semi-mazout. Since that time the flow scheme of this unit has been revised on several occasions, and it now operates as shown in Fig. 1. The author indicates in detail the route of the desalted crude oil proceeding through various apparatus of the unit, and the temperature of the flow at various phases of the process, however, certain shortcomings were revealed during the operation of the unit. For instance, the insufficient capacity of the straight-run section, which yielded only gasoline and a certain quantity of

Card 1/2

Our Experiments in Redesigning the Combined Unit

SOV/92-58-7-14/37

ligroin, adversely affected the normal course of the process. It was difficult to establish optimal conditions for cracking the wide fraction of semi-mazout, and as a result heavy carbon deposits coated the mild cracking furnace pipes which often burned through. Moreover, the low pressure evaporator with six cascade trays could not ensure an efficient fractionation during the cracking process. In view of the above-mentioned shortcomings and some other defects, it has been decided to modify the combined unit as follows: a new straight-run section with more powerful furnace and atmospheric tower was installed instead of the old one, which was utilized exclusively for the primary evaporation of crude oil; moreover, the low-pressure evaporator of the old type was replaced by a new evaporator provided with a condensing and cooling system. As a result of these modifications, the redesigned unit now operates as shown in the flow diagram of Fig. 2. In a table the author gives the operational characteristics of the redesigned unit which was further modified later to reduce carbon deposits accumulating in various pipes. The hot feed circulation carried out to warm up the thermal cracking section was also changed as explained by the author and indicated in Fig. 3 and Fig. 4. These modifications improved operating conditions of the unit, increased its throughput by 30 percent and the yield of light products by 3 percent. There are 4 figures and 1 table.

ASSOCIATION: Kuybyshevskiy neftepererabatyvayushchiy zavod (The Kuybyshev Refinery)
 Card 2/2 1. Petroleum industry---USSR 2. Petroleum---Fractionation 3. Refineries
 ---Equipment 4. Industrial equipment---Performance

TIMOFEYEV, V.A., inzh.; MESHKOVSKIY, G.A., inzh.; POKHODZILO, V.N., inzh.

Technical and economic analysis of ore haulage in Krivoy Rog
Basin mines. Met. i gornorud. prom. no.6:40-44 N-D '62.
(MIRA 17:8)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog
(for Timofeyev).

ALEKSEYEV, A.Ye.; BULGAKOV, K.V.; ZILITINKEVICH, S.I.; IVANOV, V.I.;
PETROV, I.I.; RYZHOV, P.I.; SYROMYATNIKOV, I.A.; TIHOFEYEV, V.A.;
SHCHEDRIN, N.N.; FATEYEV, A.V.

Sixtieth anniversary of the birth of Dmitrii Vasil'evich Vasil'ev.
Elektrichestvo no.3:93 Mr '62. (MIRA 15:2)
(Vasil'ev, Dmitrii Vasil'evich, 1901-)

L 27611-66 JT

ACC NR: AP6018477

SOURCE CODE: UR/0219/65/059/006/0114/0116

AUTHOR: Rayevskiy, K. S.; Timofeyev, V. A.

OR: Institute of Pharmacology and Chemotherapy/directed by Active member, AMN SSSR, Professor V. V. Zakusov/ AMN SSSR (Institut farmakologii i khimioterapii AMN SSSR); Special Design Office/headed by Ye. M. Bazarnyy/Institute of Radio Engineering and Electronics/directed by Academician V. A. Kotelnikov/ AN SSSR, Moscow (Spetsial'noye konstruktorskoye byuro Instituta radiotekhniki elektroniki AN SSSR)

TITLE: Multichannel device for recording motor activity in small laboratory animals (rats and mice)

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 59, no. 6, 1965, 114-116

TOPIC TAGS: bioinstrumentation, electronic equipment, rat, mouse, pharmacology

ABSTRACT: The authors modified Knoll's method, which involves the animal moving along a corridor and successively closing a circuit consisting of metal plates connected to the ground and a control grid of a radio tube that functions as an amplifier. Each movement of the animal from plate to plate triggers a pulse counter. The proposed modification entails the use of plates of different sizes - large for rats and small for mice. The individual activity of 20 mice and 10 rats can be recorded simultaneously, a valuable feature for mass pharmacological trials of new drugs.

The article summarizes the results of measuring spontaneous motor activity in mice and rats under normal conditions and after the injection of amphetamine sulfate and chlorpromazine. Use of the proposed device makes it possible to study a great many animals. The results lend themselves to statistical

processing. The method is simple and reliable. This paper was presented by Active

member AMN SSSR V. V. Zakusov. Orig. art. has: 1 fig. and 2 tables. /JPRS/

SUB CODE: 09, 06 / SUBM DATE: 28NOV63 / 10TH REE: 005
 Card 1/1 / UIC: 615.78-092.259:612.76:612.76-06:615.78

L 13108-66 EWT(m)/EWP(t)/EWP(b)

IJP(c) JD/WW/JW/JG/JWD

ACC NR: AP5025787

SOURCE CODE: UR/0363/65/001/009/1513/1520

AUTHOR: Portnoy, K. I.; Timofeyev, V. A.; Timofeyeva, Ye. H.

ORG: none

TITLE: Thermodynamics of reactions producing rare earth hexaborides

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 9, 1965, 1513-1520

TOPIC TAGS: rare earth, thermodynamic calculation, heat of formation, free energy, boride

ABSTRACT: The authors made a thermodynamic calculation of the reactions forming rare earth hexaborides in the vacuum thermal reduction of rare earth oxides with boron, boron carbide, and a boron-carbon black mixture. Heats of formation of the hexaborides were obtained by an approximate thermodynamic calculation for standard conditions and the heats of formation of the oxides were calculated from comparison. Calculations were based on A. F. Kapustinskiy's thermochemical logarithmic curve

$$\frac{\Delta H_f}{\omega} = a \ln z + b$$

Card 1/2

UDC: 661.865

L 13108-66

ACC NR: AP5025787

where ω is the valence, a and b are empirical constants, and z is the atomic number. The results were used for the calculation of the reactions: derivation of equations for the free energy at standard conditions (ΔH_{298}°) of reactions forming rare earth hexaborides and derivation of equations for the equilibrium constants (K_p) of the reactions. Orig. art. has: 3 figures, 4 tables, 4 formulas. ^p

SUB CODE: 07/ SUBM DATE: 09Apr65/ ORIG REF: 011/ OTH REF: 001

Card 2/2

PORTNOY, K.I.; TIMOFEYEV, V.A.; TIMOFEYEVA, Ye.N.

Thermodynamics of reactions involved in the preparation of rare-
earth hexaborides. Izv. AN SSSR. Neorg. mat. 1 no.9.1519-1520
S 165.
(MIRA 18.11)

AUTHORS: Zeleneyev, V.A., Engineer and Timofeyev, V.A. SOV/117-58-12-18/36

TITLE: The Polishing of Parts on a Centerless Grinding Machine
(Polirovaniye detaley na bestsentrovo-shlifoval'nom stanke)

PERIODICAL: Mashinostroitel', 1958, Nr 12, pp 25 - 26 (USSR)

ABSTRACT: A new mechanized method of grinding and polishing on a centerless grinder, of circular "DLT" aluminum alloy parts 30 mm in diameter and 900 mm length, was introduced into practical use. Grinding and polishing is carried out by two operations with the use of special grinding or polishing disks. The first operation (grinding) is performed with the driving disk and the second operation (polishing) with the driving and polishing disks. They are of similar design, but the grinding disk is coated with an abrasive layer. The smoothness of the polished surface is equal to that obtained by a polishing machine. The technological process and the setting of the device are simple and do not require highly qualified workers. There are 3 diagrams.

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