

ZUBKOV, L.B.; CRISTOV, L.B.

Certain mineralogical and technological characteristics of ores
in the weathered layer of rare metal deposits. Izv. vys. ucheb.
zav.; tsvet. met. 8 no.5:23-28 '65. (MIRA 18:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
redkometallichekoy promyshlennosti, laboratoriya veshchestvennogo
sostava rud.

GURVICH, S.I.; ZUBKOV, L.B.; GALETSKIY, L.S.

Geological and mineralogical characteristics of beryllium
mineralization related to genthelvite. Sov.geol. 8 no.2:29-
44. F '65. (MIR: 18:12)

RYAN, V.P.; ROBERT, J.P.; ...

...
...
1. ...
1966.

ZUBKOV, L. V.

USSR/Engineering
Industrial Statistics

Oct 1967

"Technical Re-equipping of the USSR People's Economy for Thirty Years," Prof A. A. Zvorykin, L. V. Zubkov, 13 pp

"Nauka i Zhizn'" No 10

In First Five-Year Plan Soviet industries multiplied some eight times (US in the same period expanded only 50%). General account of therapid strides made in Soviet industry. No exact production figures, but gives comparisons in terms of percentages. Series of photographs show industrial might of USSR. Views show Volkhovsk Hydroelectric Plant imeni V. I. Lenin, Nevinnomysskiy Canal with a view of causeway. Several views of steel plants, among them a shoreward view of AzovStal' Metallurgical Works; several photographs of factory equipment, e.g., a super die press at the UralMashZavod.

PA 50132

1. ZUBKOV, L. Ye.; DURNOVO, P. P. ; MISHENIN, Yu. V.
2. USSR (600)
4. Medical Instruments and Apparatus
7. Mechanization of laborious processes in the production of medical glassware.
Med. prom. no. 6 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

GIL'ZIN, Karl Aleksandrovich, kand. tekhn. nauk; ZUBKOV, M.A., otv. red.;
MOLOKANOVA, M.A., tekhn. red.

[Travel to distant worlds] Puteshestvie k dalekim miram. Moskva,
Gos. izd-vo detskoi lit-ry M-va prosv. ESFSR, 1960. 319 p.
(MIRA 14:6)

(Astronautics) (Interplanetary voyages)

ZUBKOV, M., podpolkovnik

The mission is accomplished by the engineer road-construction
company. Voen.vest. 43 no.10198-101 O '63. (MIRA 16812)

KHALIFMAN, Iosif Aronovich; ZUBKOV, M.A., otv. red.; TOKANEVA, T.M.,
tekhn. red.

[Password of crossed antennas] Parol skreshchennykh antenn.
Moskva, Detgiz, 1962. 413 p. (MIRA 16:2)
(Insects)

ZIGEL', Feliks Yur'yevich; KURT, V.G., kand. fiz.-matem. nauk,
nauchnyy red.; ZUBKOV, M.A., otv. red.; YEGOROVA, V.K.,
tekhn. red.

[Radio waves from outer space] Radiovolny iz kosmosa. Mo-
skva, Detgiz, 1963. 141 p. (MIRA 16:6)
(Radio astronomy)

SHVARTS, Anatoliy Leonidovich; ZUEKOV, M.A., otv. red.; YEGOROVA,
V.K., tekhn. red.

[Code of life] Shifr zhizni. Moskva, Detgiz, 1963. 205 p.
(MIRA 16:10)

(MEDICINE) (MOLECULAR BIOLOGY)

SIMONOVICH, Il'ya Zus'yevich; ZUBKOV, M.A., otv. red.

[Pioneer, you can learn to be a shipbuilder] Pioner -
sudostroitel'. Moskva, Izd-vo "Detskaja literatura,"
1964. 140 p. (MIRA 17:6)

BUNIMOVICH, David Zakharovich; ZUBKOV, M.A., redaktor; SAMOKHVALOVA, N.P.
tekhnicheskiy redaktor

[Book for the young photoamateur] Kniga iunogo fotolubitelia.
Moskva, Gos.izd-vo detskoi lit-ry Ministerstva prosveshchenia
RSFSR, 1955. 222 p. (MIRA 9:2)
(Photography)

KHALIFMAN, Iosif Aronovich; ZUBKOV, M.A.; otv. red.; KHAVTSEVA, R.M.,
tekhn. red.; GOLUBEVA, V.A., tekhn. red.

[Subterranean dwellers] Otstupivshis v podzemel'e. Moskva, Gos.
izd-vo detekoi lit-ry M-va prosv. RSFSR, 1961. 191 p.
(MIRA 14:12)

(Termites)

KONDRATOV, Aleksandr Mikhaylovich; DOBRUSHIN, R.L., doktor fiz.-
matem. nauk, nauchnyy red.; ZUEKOV, M.A., otv. red.;
PUSHKOVA, S.K., tekhn. red.

[Numbers and thought] Chislo i mysl'. Moskva, Detgiz,
1963. 141 p. (MIRA 16:6)
(Cybernetics)

GUBIN, Vadim Aleksandrovich; ZUBKOV, M.A., otv. red.; SHEVCHENKO, G.H.,
tekh. red.

[School apiary] Shkol'naiia paseka. Moskva, Gos. izd-vo detskoi lit-
ry M-va prosv. RSFSR, 1960. 109 p. (MIRA 14:7)
(Bee culture---Study and teaching)

ZIGEL', Feliks Yur'yevich; ZUBKOV, M.A., otv.red.; PERTSEVA, T.V.,
tekhn.red.

[The Universe is full of riddles] Vselennaya polna zagadok.
Moskva, Gos.izd-vo detskoi lit-ry M-va prosv.RSFSR, 1960.
243 p. (MIRA 14:1)
(Astronomy)

PYL'NEV, Valentin Mikhaylovich; ZUBKOV, M.A., otv.red.; FIVHG, G.M.,
tekh.red.

[Astonishing halves; 75 experiments with potatoes] Udivitel'nye
polovinki; 75 opytov s kartofelem. Moskva, Gos.izd-vo detakoi
lit-ry M-va prosv.RSFSR, 1960. 93 p. (MIRA 13:7)
(Potatoes)

PEREL'MAN, Yakov Isidorovich [deceased]; PRUSAKOV, I.I.; ZUBKOV, M.A.,
otv.red.; KUTUZOVA, M.A., tekhn.red.

[Interesting problems and experiments] Zanimatel'nye zadachi
i opyty. Moskva, Gos.izd-vo detskoi lit-ry, 1959. 525 p.
(MIRA 12:8)

(Science--Juvenile literature)

LARIONOV, Leonid Georgiyevich; ZUBKOV, M.A., otv.red.; LEVINSEAYA,
N.Z., tekhn.red.

[Decisive years] Reshniushchie gody. Moskva. Gos.izd-vo
detsoi lit-ry M-va prosv.RSFSR, 1959. 30 p. (MIRA 12:8)
(Electrification)

GIL'ZIN, Karl Aleksandrovich, kandidat tekhnicheskikh nauk; LEVENSHTAYN,
G.V., otvetstvennyy redaktor; ZUBKOV, M.A., otvetstvennyy redaktor;
SUKHOVTSEVA, M.D., tekhnicheskiy redaktor

[Travels to distant worlds] Puteshestvie k dalskim miram. Moskva,
Gos. izd-vo detskoi lit-ry, 1956. 276 p. (MLRA 9:10)
(Interplanetary voyages)

GAL'PERSHTEYN, Leonid Yakovlevich; KHLEBNIKOV, Petr Petrovich; ZUBKOV,
M.A., otv. red.; TOKAREVA, T.M., tekhn. red.

[The young physicist's laboratory] Laboratoriia iunogo fizika.
Moskva, Detgiz, 1962. 126 p. (MIRA 15:6)
(Physical laboratories)

KOLTASHEV, N.G.; ZUBKOVA, M.F.; MARATSUTSEVA, G.V.

Determination of the viscosity of thick extracts by means of a
tangentially displaced plate. Apt. delo 9 no. 5:20-22 S-O '60.
(MIRA 13:10)

1. Permskiy farmatsevticheskiy institut.
(VISOSIMETRY)

SYRMAY, A.G., nauchnyy sotr.; OBERMEYSTER, A.M., nauchnyy sotr.;
ERONFMAN, A.I., nauchnyy sotr.; SHIMKO, K.N., kand. tekhn.
nauk; PARAKHONSKIY, B.M., kand. ekon. nauk. Prinimali ucha-
stiye: ZHURILOV, V.I., nauchnyy sotr.; ZIBKOV, M.I., nauchnyy
sotr.; SHVARTS, G.L., nauchnyy sotr.; MIKHEYEV, A.P., doktor
tekhn. nauk, prof., otv. red.; BYKOV, I.K., red. izd-va;
DOROKHINA, I., tekhn. red.

[Water and air transportation in capitalist countries: trends in
the development of equipment] Vodnyi i vozdushnyi transport kapita-
listicheskikh stran; tendentsii razvitiia tekhnicheskikh sredstv.
Moskva, Izd-vo Akad.nauk SSSR, 1961. 350 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Institut kompleksnykh transportnykh pro-
blem.

(Merchant marine)

(Aeronautics, Commercial)

ZUBKOV, V. K.

The boring of oil wells; textbook. Izd. 2., ispr. i dop. Raku,
Azgostoptekhnizdat, 1941. (49-34447)

TN870.293 1941

ZUBKOV, M.M.

Efficient performance of bits on bottoms of very deep wells.
Nef. khoz. 38 no.10:48-52 0 '60. (MIRA 13:9)
(Boring machinery)

ZUBKOV, M.M.

An efficient system of well-head fitting for specially designed
tubingheads. Trudy Akad. neft. prom. no.2:184-190 '55.

(Oil wells--Equipment and supplies)

(MIRA 8:5)

ZUEKOV, M.M.

Wear of bits in deep drilling in connection with maximum efficient
drilling speed. Trudy KF VNII no.5:228-246 '61. (MIRA 14:10)
(Oil well drilling)

GNEDENKO, B.V., akademik; ZUBKOV, M.N.

Determining the optimum number of berths. Mor. shor. 2" no.6:30-39
Je '64. (MIRA 18:7)

ZUBKOV, M.Ye., tech. FALANER, I.I., doktor khimicheskikh nauk

Using the method of volt-ampere characteristics in regulating
medium current density. Mashinostroenie no.217-76 Pr.Ap 165.
(KIRA 1976)

ZUBKOV, M.Ye., inzh.

Calculation of the optimum parameters of networks with parallel
control. Vest.elektroprom. 33 no.2:58-62 F '62. (MIRA 15:2)
(Electric networks) (Electric relays)

BYALOBZHESKIY, Grigoriy Valerianovich, kand. tekhn. nauk; DYUNIN, Arkadiy
Konstantinovich, kand. tekhn. nauk; KOMAROV, Aleksey Aleksandrovich,
kand. tekhn. nauk; ZUBKOVA, M.S., red.; DONSKAYA, G.D., tekhn. red.

[Snow shields and fences] Snegozashchitnye shchity i zabory. Moskva,
Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog
RSFSR, 1961. 35 p. (MIRA 14:8)

(Snow fences)

BABKOV, Valeriy Fedorovich, prof., dektor tekhn.nauk; ZUBKOVA, M.S.,
red.; MAL'KOVA, N.V., tekhn.red.

[Highways; basic information on highways for automobile
drivers] Avtomobil'nye dorogi; osnovnye svedeniia o dorogakh
dlia avtomobilistov. Izd.2., perer, i dop. Moskva, Nauchno-
tekhn, izd-vo M-va avtomobil'nogo transporta i shosseinykh
dorog RSFSR, 1960. 238 p. (MIRA 13:7)
(Roads)

ZUBKOV, N. gidromonitorshchik.

A team performing creative work. Mast. ugl. 5 no.3:8 Mr '56.
(Kuznetsk Basin--Hydraulic mining) (MLRA 9:2)

ACC NR: AP7004150 (N) SOURCE CODE: UR/0375/67/000/001/0029/0037

AUTHOR: Zubkov, N. A. (Candidate of military science; Colonel); Barishpolets, V. A. (Engineer; Captain 3d rank)

ORG: none

TITLE: Programmed evaluation and review technique PERT as a tool of scientific research

SOURCE: Morsky sbornik, no. 1, 1967, 29-37

TOPIC TAGS: stochastic process, mathematic method, planning, scientific research, PERT, programming, programmed evaluation

ABSTRACT: The authors analyze conditions under which mathematical methods of PERT may be applicable, specifically when investigating stochastic processes. The use of these methods may be a time-saving factor in nuclear warfare, and may be used to investigate the operational efficiency of control of naval forces and facilities. The complexity of the construction of network models and the methods to be used in this connection are analyzed. The authors stress the value of the PERT method in obtaining quantitative indices characterizing the operational capability

Card 1/2

ACC NR: AP7004150

1 of the control system and to streamline the operations of electric computers.
Orig. art. has: 8 figures and 7 formulas.

[GC]

SUB CODE: 09, 12, 15/SUBM DATE: none/ORIG REF: 003/

ZUBKOV, N.F., inzhener.

Eliminating excesses in the plans of the machine construction
ministries. Biul.stroi.tekh. 13 no.5:1-3 My '56. (MLBA 9:8)

1. Gosstroy SSSR.
(Machinery industry)

Vitreous State (Cont.)	
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Mazurin, O.V. Dependence of Electrical Conductivity of Solid Glasses on Composition	258
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Yevstrop'yev, F.K. Study of Diffusion of Some Alkali Ions in Silica Glasses With the Aid of Radiative Tracers	270
Ivanova, Ye.A. Diffusion of Copper Ions in Glass Depending on Composition	274
Ioffe, V.A., G.I. Khvostenko, and I.G. Neshchetkaya. Electrical Properties of Aluminosilicates	275
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Ribolskiy, B.P., and N.M. Shal'va. Inertial Glass Properties	292
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Vitreous State (Cont.)	
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Smol'ts, Yu.A. On the Dependence of Properties of Alkali Silicate Glasses on Composition	310
Gladkov, A.N., and V.T. Krasovskiy. Study of the Molecular Structure of Inorganic Glasses	314
Makobeev, N.M. Refraction and Absorption of Light by Some Crystalline and Glasses	318
Yankovskiy, A.K. Potential Loss of Ca^{2+} Mobility and Optical Constants of Glasses	323
Gladkovskiy, V.I. Calculation of the Activation Energy of Viscous Flow of Alkali Silicate Glasses of a Given Chemical Composition	328
Kind, S.V., and G.A. Fialitov. Effect of Various Additives on Properties of Lead-Crown Glasses	331
Syrtskaya, E.M. Physicochemical Properties of Aluminophosphate Glasses	335
Card 13/22	

MYASOYEDOV, P., polkovnik, kand.voyennykh nauk; ZUBKOV, N., polkovnik,
kand.voyennykh nauk

Attack and counterattack. Voen.znan. 38 no.12:13-14, D '62.
(MIRA 15:12)

(Attack and defense (Military science))

ZUEKCV, N., polkovnik, kand.voyenrykh nauk

Fire, maneuver, and assault on the battlefield. Voen. znan. 37
no.8:35-36 Ag '61. (MIRA 14:7)

(Tactics)

ACC NR: AP7001765

(N)

SOURCE CODE: UR/0110/66/000/010/0032/0033

AUTHOR: Belyayev, N. (Engineer); Zubkov, N. (Engineer); Polyakov, V. (Engineer)

ORG: VDSK im. V. I. Lenin Administration (Upravleniye VDSK)

TITLE: Method for conducting river bed surveys

SOURCE: Rechnoy transport, no. 10, 1966, 32-33

TOPIC TAGS: geodetic survey, geologic survey, hydrographic survey, surveying ship, surveying instrument, inland waterway, optic range finder, ranging, *УДК 622.017*

ABSTRACT: The basis of a new method of making river bed surveys is the coordination of soundings by solving the inverse geodesic problem contained in the process of ship movement by fixing two angles as a result of continuous sightings with three theodolites on three points of reference ashore, the coordinates of which are known. The new method provides for simultaneous coordination of the soundings taken by the sounding ship through a system containing an "instrument-selsyn-differential selsyn," which transmits two continuously observed angles to an operator who is charged with laying out the plan, a survey of the shore situation, including water lines, the edges of steep banks, and other reference points, using a range finder, the soundings taken by a fathometer with several transmitters mounted in a special console, and the initial laboratory processing. The entire survey party, 11 men, is embarked in

ACC NR: AP7001765

the sounding ship (a motorship). The method is described, and the results obtained by one survey party working on the lower Don River established the fact that productivity increased by a factor of 3.3 when the new method and equipment was used and compared with the conventional method. The one survey party provided a saving of about 4,000 rubles annually. Orig. art. has: 4 figures.

SUB CODE: 08/SUBM DATE: None

Card 1/1

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[Illegible text]

ZUBKOV, N.

Progressive dredger. Rech. transp. 20 no.10:48 0 '61.

- (MIRA 14:9)
1. Glavnyy inzhener Nizhne-Donskogo rayona gidrosooruzheniy.
(Dredging machinery)

SELKENSV, V.M., kand. tekhn. nauk; ZEBOV, N.S., inzh.

System of banks located in delivery conditions
butaries. Tray 117 no. 4021-LS 123 (1981.787)

ZUBKOV, N.V.

Determination of the separation factors of gas anchors. Izv.
vys. ucheb. zav.; nef't' i gaz. 6 no. 5:37-39 1969

(MIRA 1967)

1. Groznenskiy nef'tyanoy institut.

ZUBKOV, N.V.

Method for determining the required weight of the weighted
bottom of sucker rods. Izv. vyznucheb. zav. i gaz. i no.
1:43-46 '64. (MIRA 17:7)

1. Groznenskiy nef'tyanoy institut.

AUTHOR: Zubkov, N.V. SOV/19-58-6-34/685

TITLE: A Depth-Pump Installation for Separate Producing
from Two Layers (Glubinno-nasosnaya ustanovka dlya
razdel'noy ekspluatatsii dvukh plastov)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 12 (USSR)

ABSTRACT: Class 5a, 41. Nr 113462 (555191 of 18 July 1956).
Submitted to the Committee for Inventions and Dis-
coveries at the Ministers Council of USSR. An in-
stallation in the form of two concentrically placed
pipe strings and a compound piston pump mounted in
the inner string. To let out under-layer gas, the
outer string is pack harden in the casing and bears
in its lower portion a coupling with passage chan-
nels and a saddle for setting on the inner string,
which is also provided with a coupling with passage
channels and a saddle for the attachment of the com-
pound pump.

ZUBKOV, N.V.

Graphs for the determination of the feed factors of deep-well
pumps which pump live ruds. Izv.vys.ucheb.zav.; neft'i gaz 6
no. 12:35-38 '63. (MIRA 17:5)

1. Groznenskiy neftyanoy institut.

ZUBKOV, N.V.

More exact representation of the formula for the coefficient of admission of a pump with consideration of the harmful influence of free gas. Izv.vys.ucheb.zav.; neft' i gaz 6 no.9:47-51 '63.
(MIRA 17:2)

1. Groznenskiy neftyanoy institut.

ZUBKOV, N.V.

Determining adequate weight for the heavy lower end of a
sucker rod column. Izv.vys.ucheb.zav.; neft' i gaz 1 no.11:
65-69 '58. (MIRA 12:5)

1. Groznenskiy neftyanoy institut.
(Sucker rods)

ZUBKOV, H.V.

Results of the study of the effect of gas on the operation of
a deep well pump. Neft. khoz. 39 no. 6:57-62 Ja '61. (MIRA 14:8)
(Oil well pumps)

ZUBKOV, P., mekhanik

Machine for cutting cables. Na stroi. Mosk. 2 no.6:28 Ja '59.
(MIRA 12:8)

1. UM-24 tresta Monstroymekhanizatsiya No.7.
(Cables) (Cutting machines)

BORISOV, M.; ZUBKOV, P.; KOSTINA, L.; YEFIMOVA, R.; VITCHUK, Boleslav

Builders are introducing new methods. Stroitel' no.12:8-9
D '59. (MIRA 13:3)

1. Predsedatel' Tsentral'nogo komiteta profsoyusa rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov (for Borisov). 2. Nachal'nik otdela truda i n rabotnoy platy Ufimskogo tresta No.3 (for Zubkov). 3. Korrespondent gazety "Znamya stroitelya" (for Yefimova). 4. Brigadir armaturshchikov na zavode zhelezobetonnykh izdeliy Ryazanskogo tresta No.23 (for Vitshuk).

(Building)

ZUBKOV, N.V.

Right depth for sinking a pump under the dynamic level. Neft.
khoz. 41 no.4:46-47 Ap '63.

(MIRA 17:10)

ZUBKOV, N.V.

Calculating subsurface gas separators. Izv. vuz. ucheb.
zav.; neft' i gaz 7 no.9:45-49 '64. (MLFA 17:12)

1. Groznenskiy neftyanoy institut.

NIKITSKIY, N.; ZUBKOV, P., IYEDINA, Ye.; KHODOSOVA, V., metodist

Exhibitions of special topics. Inform. tsol. VLSHE osv. No. 5. My '44.
(MIRA 18:5)

1. Starshiy metodist razdelia "Torfyannaya promyshlennost'" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Zubkov).
2. Direktor ob'edinenykh zav. i zav. "Toplivnaya promyshlennost'" i geologiya" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Zubkov).
3. Starshiy inzh.-metodist ob'edinenykh zavil' onov "Toplivnaya promyshlennost'" i geologiya" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Iyedina).
4. Pavill' on "legkaya promyshlennost'" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Khodosova).

GOL'DENBERG, B. Ya.; GURINA, F.; KOPILIN, N.; KOTOMINA, A.; CHIRASHOVA, M.,
metodist; KOSHELOVA, T.

Exhibitions and displays of special items. Inform. anal. YEKKH no.8:
11-15 Ag '64. (MIRA 17:11)

1. Starshiy inzh.-metodist pavil'ona "Organizatsiya proizvodstva i upravleniya promyshlennymi predpriyatiyami" pavil'ona "Mashino-stroyeniye" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Gol'denberg). 2. Direktor ob'yedinennyykh pavil'onov "Toplivnaya promyshlennost' i geologiya" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kubkov). 3. Glavnyy metodist pavil'ona "Toplivnaya promyshlennost'" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Begina). 4. Glavnyy inzh.-metodist pavil'ona "Neftyanaya promyshlennost'" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kotomina). 5. Starshiy inzh.-metodist pavil'ona "Molochnaya promyshlennost'" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kosheleva).

"On the electrical analogues of linear electromechanical systems", by Candidate of Technical Sciences P. G. Zubkov, at the Power Engr. Inst. im KHZEIZHANOVSKIY of the Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

SANZHAROVSKIY, A.T.; DYLIKOV, M.S.; ZUBOV, P.I.

Effect of the thickness of the adhesive layer on the strength of
glued joints. Plast.massy no.4:43-46 '64. (MIRA 17:4)

KRYLOVA, I.A.; POSPELOVA, K.A.; ZUBOV, P.I.

Stabilization of aqueous dispersions of carbon black by surface-active agents. Koll.zhur. 26 no.1:57-60 Ja-F '64. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

ZUBK

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2

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[Vertical barcode or scanning artifact]

LUPICHEV, N.P., inzh.; CHELYSHEV, F.S.; ZUBKOV, P.M.

Use of inert (smoke) gases for the transportation of petroleum
products and the repair of oil tank vessels. Proisy.-tekh. sbor.
no.3:50-66 '59. (MIRA 13:10)
(Tank vessels) (Petroleum industry--Safety measures)

PEIROV, Nikolay Grigor'yevich; ZUBROV, P.N., retsenzent; OSIFOV,
M.T., retsenzent; LOKUCHAIEV, M.M., retsenzent;
DAVYDOV, S.A., otv. rad.

[Short-delay blasting in mines] Korotkozamedlennoe vary-
vanie v shakhtakh. Moskva, Nedra, 1964. 142 p.
(HIRA 17:6)

VALEYEV, Sh.V.; ZUBKOV, P.S., red.; SMIRNOVA, I.I. red.; ZAYNULIN, I.Ih.,
tekhn. red.

[Special features of growing seed corn] Osobenosti vzdelyvaniia
kukuruzy na semena. Pod red. P.S. Zubkova. Kasan', Itknigizdat,
1957. 44 p. (MIRA 11:10)

(Corn (Maize))

ZUBKOV, P.S.

RABINOVICH, M.P.; ZUBKOV, P.S., redaktor

[Economic analysis of collective farm production] Ekonomicheskii
analiz kolkhosnogo proizvodstva. Kazan', Tatknigoizdat, 1956. 117 p.
(Collective farms--Accounting) (MLBA 10:9)

ZUBKOV, R.A., kapitan 3-go ranga

Is such a handbook necessary? Mor. sbor. 48 no.2:49-51
F '65. (MIRA 18:11)

ZUBKOV, S.

How to plan the work of a trade-union committee. Sov.profsoiuzy 17
no.12:32-33 Je '61. (MIRA 14:6)

1. Predsedatel' komiteta profsoyusa Saratovskogo zavoda
tyazhelykh zuboreznykh stankov.
(Saratov--Machine tool industry) (Trade unions)

ZUBKOV, S.D.

Anniversary of an outstanding scientist. Visnyk AN URSR 25 no.12:
58-60 D '54. (MIRA 8:4)
(Bilets'kyi, Oleksandr Ivanovych, 1884-)

ZUBKOV, S.S.

Efforts for the reduction of steel costs. Metallurg 6 no.7:17-19
Jl '61. (MIRA 14:6)

1. Master elektrostaleplavil'nogo tsekha No.2 Zlatoustovskogo metallurgicheskogo zavod,
(Steel--Eletrometallurgy)

ZURKOV, T. N.

A. D. ZINOVYI, Soviet Geol. J., No. 8, 53-55, 1939

ZUBKOV, V.

"Mesbass" shield. Mast. ugl. 7 no.11:24 N '58.

(MIRA 11:12)

1. Zamestitel' glavnogo inzhenera shakhty No.4 kombinata Tulaugol'.
(Coal mines and mining--Equipment and supplies)

ZUBKOV, V., inzhener; LEYKIN, Z., inzhener.

Quick method for determining moisture in grain after drying.
Muk.elev.prom. 23 no.9:9-10 S '57. (MIRA 10:11)

1. Gor'kovskaya mel'nitsa No.1.
(Grain--Analysis) (Moisture)

ZUBKOV, V., insh. direktor-podpolkovnik puti i stroitel'stva.

Review of literature on the roadbed. Zhel. dor. transp. no.1:92-95
'47. (MIRA 13:2)

(Railroads--Track)

MORGUN, A., inzh.; SHCHERBAKOV, V., inzh.; ZUBKOV, V. inzh.; SMEKALIN, V.,
inzh.

Rubber cleaner for separator sieves. Muk.-elev.prom. 25 no.7:
16-17 J1 '59. (MIRA 12:11)

1. Gor'kovskiy mashinostroitel'nyy zavod im. Vorob'yeva (for Morgun, Shcherbakov).
 2. Gor'kovskiy mel'nichnyy kombinat No.1 (for Zubkov, Smekalin).
- (Sieves)

TESLER, L., inzh.; ZUBOV, V., tehnik

Thermionic time relay for automatic VTI grain dryers. Muk.-elev.
prom.24 no.2:27-28 F '58. (MIRA 11:4)

1. Kuybyshevskoye territorial'noye upravleniye.
(Grain--Drying)

ZUBKOV, V., inzh.; TROFIMOV, G., inzh.

Building foundations for the underwater part of the slipway
with compacted sand. Rech. transp. 21 no.6:41-42 Je '62.

(MIRA 15:7)

(Hydraulic engineering)

ZUBKOV, V.

Gorkiy Flour Mill during the years of Soviet rule. Mult.-elev. prom.
23 no.11:21-22 N '57. (MIRA 11:1)

1. Glavnyy inzhener Gor'kovskoy mol'nitsy No.1 im. M.I. Kalinina.
(Gorkiy--Flour mills)

ZUBKOV, V.

Employees of the Gorkiy Flour Mill No. 1 are striving for technical progress. Mukolev.prom. 27 no.5:3-4 My '61, (MIRA 14:6)

1. Glavnyy inzh. Gor'kovskoy mel'nitsy No. 1.
(Gorkiy--Flour mills)

Zubkov
SAPOZHNIKOV, Matvey Yakovlevich; BULAVIN, Ivan Anisimovich; KANTOROVICH, Z.B., professor, doktor tekhnicheskikh nauk, retsennent; ZUBKOV, V.A., dotsent, kandidat tekhnicheskikh nauk, retsennent; BASSKAZOV, N.I., kandidat tekhnicheskikh nauk, dotsent, retsennent; SIDENKO, P.M., kandidat tekhnicheskikh nauk, retsennent; KOZULIN, N.A., professor, doktor tekhnicheskikh nauk, retsennent; STOLYAROV, S.A., redakter; GURVICH, E.A., redakter; LYUDKOVSKAYA, N.I., tekhnicheskii redakter.

[Machines and apparatus used in the silicate industry] Mashiny i apparaty silikatnoi promyshlennosti; obshchii kurs. Iss.2-oe, dop. i perer. Moskva, Gos.izd-vo lit-ry po stroitel'nym materialam, 1955. 423 p. (MLRA 9:5)

(Clay industries)

89218

8/056/61/040/001/024/037
B102/B212

24.450.

AUTHORS: Adamov, M. N., Zubkov, V. A.

TITLE: A comment to the variational calculation of polarizability

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoj fiziki, v. 40,
no. 1, 1961, 246-248

TEXT: In the derivation of Kirkwood's formula and similar variational formulas for polarizability the requirements which result from the orthogonality of the perturbed wave functions, were not considered. These formulas therefore give a higher value of the polarizability of excited electron states. The authors' aim is to show that if these requirements are taken into account when setting up the trial function for variational calculation of the electron polarizability in the excited state, results are obtained which agree well with exact values, (i.e., they approach them from below). The variational problem of determining the polarizability $\alpha_1 = -2E_1^{(2)}$ for the i-th electron state is formulated as follows:

$$E_1^{(2)} = J \left[\Psi_1^{(1)} \right]_{\min} = \int \Psi_1^{(1)} (H_0 - E_1^{(0)}) \Psi_1^{(1)} d\tau + 2 \int \Psi_1^{(1)} \Psi_1^{(0)} d\tau;$$
 the
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normalization of the perturbed function Ψ_i results in $\int \Psi_i^{(1)} \Psi_i^{(0)} d\tau = 0$, and the orthogonality of the functions Ψ_i with respect to Ψ_k (describing a state lower in energy than the i -th state) yields

$\int \Psi_i^{(1)} \Psi_i^{(0)} d\tau = - \int \Psi_k^{(1)} \Psi_i^{(0)} d\tau = z_{ik} / (E_i^{(0)} - E_k^{(0)})$. The polarizing field is assumed to be along the z -axis. The Euler equation

$(H_0 - E_i^{(0)}) \Psi_i^{(1)} = (\lambda_i - z) \Psi_i^{(0)} + \sum_k \lambda_{ik} \Psi_k^{(0)}$, with $\lambda_i = E_i^{(1)} = z_{ii}$ and

$\lambda_k = 0$ checks with the perturbation theoretical equation for $\Psi_i^{(1)}$:

Substituting $\Psi_i = [f_i - (f_i)_{ii}] \Psi_i^{(0)}$, $(f_i)_{ik} = \int \Psi_i^{(0)} f_i \Psi_k^{(0)} d\tau$, yields

$\Psi_i = [f_i - (f_i)_{ii}] \Psi_i^{(0)} + \sum_k c_{ik} \Psi_k^{(0)}$, where $c_{ik} = z_{ik} / (E_i^{(0)} - E_k^{(0)}) - (f_i)_{ik}$.

When introduced into the initial equation this gives:

$$E_i^{(2)} \leq J[\Psi_i]_{\min} = 2 \left[(z - z_{ii}) + \frac{1}{4} (\text{grad } f_i)^2 \right]_{ii} + 2 \sum_k c_{ik} [(E_k^{(0)} - E_i^{(0)}) f_i +$$

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$+ z]_{1k} + \sum_k c_{1k}^2 (E_k(0) - E_1(0))$. For $f_1 = \alpha_1 z$ one obtains instead of the Kirkwood formula (8): $\alpha_1 = 4 \frac{[z_{11}^2 - (z_{00})^2]^2}{[1 + 2 \sum_k (E_1(0) - E_k(0))(z_{1k})^2] - 2 \sum_k (z_{1k})^2 / (E_1(0) - E_k(0))}$. Several values of the polarizabilities $\alpha_{n_1 n_2 n}$ of hydrogen

states computed by using formulas (8) and (9) (the first two lines) are compared with exact values in Table 1 (last line). Parabolic quantum numbers n_1 and n_2 and the magnetic quantum number m characterize the state;

Table 2 shows analogous values for several states of an electron moving in an infinitely deep potential well having a length of $l = 10$ atomic units (α_n is the polarizability of a state characterized by the quantum number n). The new formula, unlike the Kirkwood formula, always gives values that do not exceed the exact ones. The formula can be used to calculate the polarizability of many electron systems. Finally, it is pointed out that taking the orthogonality of the perturbed wave functions into account should also be important in other variational calculations of quantities in second
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perturbation-theoretical approximation. There are 2 tables and 5 refer-
 ences: 2 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State
 University)

SUBMITTED: July 14, 1960

Table 1 and 2

Таблица 1

	a_{100}	a_{110}	a_{120}	a_{130}	a_{140}	a_{150}	a_{160}
По формуле (8)	4	190	144	2916	2916	2430	1296
По формуле (9)	4	148	144	1402	1500	1477	1296
Точное значение	4,5	168	156	1620	1741	1620	1377

Таблица 2

	a_1	a_2	a_3	a_4
По формуле (8)	42,7	109,7	241,5	237,0
По формуле (9)	42,7	-14,0	-8,5	-5,3
Точное значение	43,0	-13,1	-7,8	-4,8

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AMOSOV, N.N.; DUBIN, A.S.; ZUBKOV, V.A.; STARTSEV, V.I.; TOKAREV,
Yu.S.; SHKARATAN, O.I.; KURTYNIN, M.S., red.; ZHENEKINA,
D.I., red.; LEVONEVSKAYA, L.G., tekhn. red.

[A generation of shock workers; a collection of documents
and materials on socialist competition in Leningrad
industrial plants in 1928-1961] Pokolenia udarnikov;
sbornik dokumentov i materialov o sotsialisticheskoy sorev-
novanii na predpriatiiakh Leningrada v 1928-1961 gg. Le-
ningrad, Leninfizdat, 1963. 454 p. (MIRA 16:9)

1. Leningrad. (Province) Gosudarstvennyy arkhiv Oktyabr'skoy
revolyutsii i sotsialisticheskogo stroitel'stva.
(Leningrad--Socialist competition)

ZUBKOV, V.A.

Experience in the use of forging-pressing machines. Stan. 1 instr.
26 no.10:33-34 0'55. (MIRA 9:1)
(Forging machinery)

ADAMOV, M.N.; ZUBKOV, V.A.

Comment on variational calculations of polarizability. Zhur.
eksp. i teor. fiz. 40 no.1:246-248 Ja '61. (MIRA 14:6)

1. Leningradskiy gosudarstvennyy universitet.
(Electrons)

ACC NR: ~~APR 60 03 26~~ RELEASE: Thursday, September 26, 2002 SOURCE CODE: UR/0236/66/000/010/0064/0068

AUTHOR: Yefimov, R. V. (Engineer; Colonel); Zubkov, V. A. (Engineer; Major); Kugoyev, A. P. (Engineer; Major)

ORG: none

TITLE: Alphanumerical display

SOURCE: Vestnik protivovozdushnoy oborony, no. 10, 1966, 64-68

TOPIC TAGS: digital computer, digital system, antiaircraft defense, military communication, alphanumeric display, AIR DEFENSE SYSTEM

ABSTRACT: An alphanumerical display is used in the air-defense system for the high-speed collection and simulation of important data on military positions, action taken by the air-defense forces, meteorological conditions, and air-defense-force readiness. The alphanumerical display operates on a cold-cathode thyratron, which simplifies the device, decreases its cost, decreases the amount of electricity used, and assures operational reliability; if necessary, the cold cathode thyratron can replace the electron tubes and semiconductor devices which are favored for military use. The system works on the electrolumino-flavin principle. Orig. art. has: 7 figures and 1 table. [WA]

SUB CODE: 09, 15/ SUBM DATE: none

Card 1/1

UDC: none

MAL'TSEV, P.I.; ZUBKOV, V.D.

Disassembling the "Mosbass" shield without removal of supports in
the area. Ugol' 35 no.11:37--40 N '60. (MIRA 13:12)

1. Shakhta No 4 "Begichevskaya" tresta Kalininugol', Tul'skiy
sovnarkhoz.

(Mine timbering)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

KATSENBOKEN, Mikhail Solomonovich; ZUBKOV, V.D., retsenzent;
SMIRNOV, B.A., retsenzent; ALEKSANDROVA, A.A., red.

[Characteristics of radar detection] Kharakteristiki ob-
naruzheniia. Moskva, Sovetskoe radio, 1965. 95 p.
(MIRA 18:4)

MOSHKIN, V.N.; ZUBKOV, V.P.; SHIKHANOVA, V.V.

Recent data on the age of anorthosites from the Dzhusayshur Range.
Dokl. AN SSSR 137 no.2:391-393 Apr '61. (MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut i
Dal'nevostochnoye geologicheskoye upravleniye.
(Dzhusayshur Range--Anorthosite)

KOPTEV, N.N., DOB.: ZUBKOV, V.F., inzh.

Biographic determination of the moments of inertia for bodies
of revolution. Vest. mashinostr. 45 no.7:40 J1 '65.
(MIRA 18:10)

10(3)

SOV/20-123-5-9/50

AUTHOR:

Zubkov, V. I.

TITLE:

On the Evaporation of Globules of Solid Bodies in a Flow of Gas (Ob isparenii sharikov tverdykh tel v potoke gaza)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 803-805 (USSR)

ABSTRACT:

A drop of a liquid preserves its spherical shape independently of the manner of evaporation from the various parts of its surface. But the shape of a globule of a solid volatile substance permits conclusions concerning the distribution of the evaporation rates over the surface of the body flown around. Some previous papers concerning this subject are mentioned. In order to investigate the evaporation rate in various parts of the globule, the author used globules of naphthalene and camphor. The globules flown around were photographed after definite intervals of time and the rates of evaporation in the various parts of the globule were determined. In the same intervals, the total amount of the substance evaporated per time unit was measured by weighing. The velocity of the gas flow varied within the interval 0.5 - 10 m/sec, and the

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SOV/20-123-5-1/50

On the Evaporation of Globules of Solid Bodies in a Flow of Gas

temperature - within the interval between 15 and 100 - 120° (naphthalene, therefore, is evaporated also in the liquid phase). According to these experiments, the kinetics of the evaporation of naphthalene in the liquid and in the solid phases is the same one. The amount of evaporated substance (per time unit) is different, but the evaporation process from the liquid and solid phase has the same qualitative features. A figure shows the successive contours of an evaporating naphthalene globule of 2 mm diameter at a temperature of 45°. A zone of least evaporation subdivides the surface of the globule into a front part and a rear part. The zone of least evaporation lies in the place of the interruption of the flow. This zone includes an angle of 200° with the center of the globule. The front part and the rear part evaporate with different intensities, and in first approximation they preserve their sphericity. Only the radius of the sphere varies. The variations of the surfaces of the front and rear part have a linear time dependence. The front part evaporates faster than the rear part. One can write $dS/dt = \text{const}$, and

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SOV/20-123-5-9/50

On the Evaporation of Globules of Solid Bodies in a Flow of Gas

$$\frac{(dS/dt)_{\text{front}} + (dS/dt)_{\text{rear}}}{2} = \text{const where } S \text{ denotes the surface.}$$

The higher the velocity of the flow, the more intense the evaporation from the front part and from the rear part. dS/dt increases rapidly with increasing temperature. This temperature dependence proves the diffusion character of evaporation. There are 3 figures and 6 references, 5 of which are Soviet.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

PRESENTED: July 26, 1958, by V. V. Shuleykin, Academician

SUBMITTED: March 14, 1958

Card 3/3

MONOSOV, Ya.A.; ZUBKOV, V.I.

Noises of parametric ferrite amplifiers and microwave oscillation
converters using frequencies higher than the pumping frequency.
Radiotekh. i elektron. 8 no.3:533-535 Mr '63. (MIRA 16:3)
(Microwaves) (Parametric amplifiers)