

RYABOVA, R.S.; VINNIK, M.I. (Moscow)

Kinetics and mechanism of reactions in concentrated strong acid  
media. Part 7. Zhur. fiz. khim. 37 no.11:2529-2535 N°63.

(MIRA 17:2)

1. Institut khimicheskoy fiziki AN SSSR.

MOISEYEV, Yu.V.; OLENICHEV, M.P.; VINNIK, M.I.

Decomposition of diacetone alcohol in aqueous solutions of KOH.  
Zhur.fiz.khim. 37 no.1:214-215 Ja '63. (MIRA 17:3)

1. Institut khimicheskoy fiziki AN SSSR.

VINNIK, M.I.; RYABOVA, R.S.; GRABOVSKAYA, Zh.Ye.; KOSLOV, Kh.; KYUBAR, I.

Kinetics and mechanism of reactions in concentrated strong acid  
media. Part 6. Zhur.fiz.khim. 37 no.1:94-99 Ja '63.

(MIRA 17:3)

1. Institut khimicheskoy fiziki AN SSSR.

BEL'SKIY, V.Ye.; VINNIK, M.I.

Acid-base interaction in the system acetic acid - acetic  
anhydride. Izv. AN SSSR. Ser. khim. no.12:2132-2136 D '63.  
(MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

VINNIK, M.I.; ZARAKHANI, N.G.

Kinetics and mechanism of the Beckmann rearrangement of cyclododecanone oxime in a sulfuric acid medium. Dokl. AN SSSR 152 no.5:1147-1150 0 '63. (MIRA 16:12)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom N.N.Semenovym.

MOISEYEV, Yu. V.; BATYUKOV, G. I. [deceased]; VINNIK, M. I.

Infrared and ultraviolet spectra of lactams in caustic potash solutions. Zhur. fiz. khim. 37 no. 3:570-577 Mr '63.  
(MIRA 17:5)

1. Institut khimicheskoy fiziki AN SSSR.

MOISEYEV, Yu.V.; VINNIK, M.I.

Kinetics of  $\delta$ -valerolactam hydrolysis and the alkalinity  
function of aqueous solutions of LiOH, NaOH, CsOH. Dokl. AN  
SSSR 150 no.4:845-847 Je '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademi-  
kom V.N. Kondrat'yevym.  
(Valeric acid) (Hydrolysis) (Alkalies)

MOISEYEV, Yu.V.; VINNIK, M.I.

Effect of electrolytes on the infrared spectrum of water. Zhur.-  
strukt.khim. 4 no.3:336-341 My-Je '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR.  
(Hydroxyl compounds) (Water--Absorption spectra)



MOISEYEV, Yu.V.; BATYUKOV, G.I. [deceased]; VINNIK, M.I.

Infrared spectra of lactam solutions in concentrated sulfuric acid.  
Izv. AN SSSR.Ser.fiz. 26 no.10:1306-1308 '62. (MIRA 15:10)  
(Lactams—Spectra)

VINNIK, M. I.; RYABOVA, R. S.

Kinetics and mechanism of reactions in concentrated strong acid media. Part 5: Kinetics of decarbonylation and sulfonation of diphenylacetic acid in a sulfuric acid medium. Zhur. fiz. khim. 36 no.12:2601-2608 D '62. (MIRA 16:1)

1. Akademiya nauk SSSR, Institut khimicheskoy fiziki.

(Acetic acid) (Carbonyl group) (Sulfonation)

S/076/63/037/003/008/020  
B101/B215

AUTHORS: Moiseyev, Yu. V., Batyukov, G. I., (Deceased), Vinnik, M. I.

TITLE: Study of infrared and ultraviolet spectra of lactams in potassium hydroxide solutions

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 3, 1963, 570-577.

TEXT: The IR and UV spectra of  $\epsilon$ -caprolactam and  $\gamma$ -butyrolactam in KOH, KOD, H<sub>2</sub>O and D<sub>2</sub>O were studied, and the spectra of  $\epsilon$ -aminocaproic and  $\gamma$ -aminobutyric acids were stated for comparison. Results: (1) Butyrolactam in H<sub>2</sub>O and D<sub>2</sub>O showed 1665 and 1650 cm<sup>-1</sup> absorption bands characteristic of amido-1. (2) An increase in alkalinity of the solution decreases the intensity of these bands which disappear at 19% KOH, simultaneously, the 1555 cm<sup>-1</sup> absorption band which corresponds to the ionization by addition of a hydroxylic group to the carbonyl occurs in KOH as well as in KOD. (3) The 1740 and 1395 cm<sup>-1</sup> bands which correspond to the doubly ionized form occur at concentrations above 30% KOH. (4) The equilibrium constants

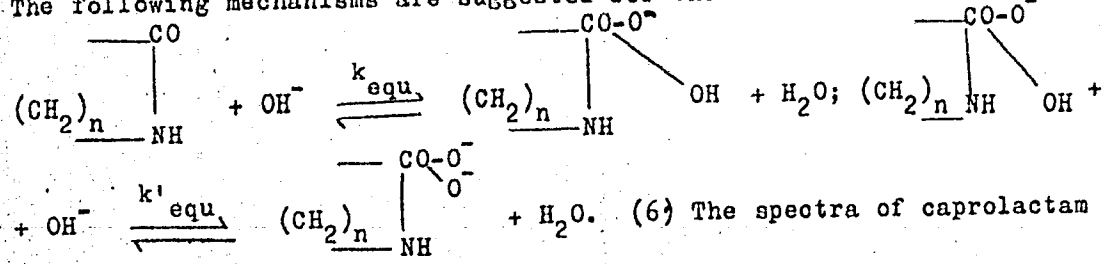
Card 1/3

S/076/63/037/003/008/020  
B101/B215

Study of infrared and ultraviolet ...

of the singly ionized form  $k_{equ} = 7$ , and the doubly ionized form  $k'_{equ} = 190$  were calculated from the data of the IR and UV spectra. (5)

The following mechanisms are suggested for the ionization of lactam:



could be studied only to a concentration of 20% KOH owing to poor solubility in KOH. They hardly differed from those in H<sub>2</sub>O. Hence it is concluded that caprolactam in KOH is not ionized. There are 4 figures and 3 tables.

ASSOCIATION: Akademiya nauk SSSR Institut khimicheskoy fiziki (Academy of Sciences USSR Institute of Chemical Physics)

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Study of infrared and ultraviolet ...

S/076/63/037/003/008/020  
B101/B215

SUBMITTED: December 27, 1961

Card 3/3

VINNIK, M.I.; RYABOVA, R.S.; BELOVA, G.V.

Kinetics and mechanism of reactions in concentrated solutions of strong acids. Part 4: Kinetics of dehydration of *o*-3',4'-dimethylbenzoylbenzoic acid in concentrated solutions of sulfuric acid. Zhur.fiz.khim. 36 no.5:942-950 My '62. (MIRA 15:8)

1. Institut khimicheskoy fiziki, AN SSSR.  
(Benzoic acid) (Dehydration (Chemistry))

ZARAKHANI, N.G.; VINNIK, M.I.

Relation between the acidity of the medium and the chemical shift of the proton magnetic resonance of aqueous solutions of strong acids. Zhur. fiz. khim. 36 no.4:916-917 Ap '62. (MIRA 15:6)

1. AN SSSR, Institut khimicheskoy fiziki.  
(Nuclear magnetic resonance and relaxation)  
(Acids, Inorganic)

ZARAKHANI, N. G.; VINNIK, M. I.

Composition and equilibrium in the system  $H_2SO_4-H_2O$ . Zhur. fiz.  
khim. 37 no. 3:503-509 Mr '63. (MIRA 17:5)

1. Institut khimicheskoy fiziki AN SSSR.



VINNIK, M.I.; MOISEYEV, Yu.V.; PALAGINA, L.V.

Kinetics and mechanism of butyrolactam hydrolysis in KOH  
aqueous solutions. Dokl. AN SSSR 143 no.5:1127-1130 Ap  
'62. (MIRA 15:4)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno  
akademikom V.N.Kondrat'yevym.  
(Pyrrolidinone) (Hydrolysis)

GOFMAN, I.L.; ZOTOVA, K.S.; ALEKSASHINA, L.M.; Primalni uchastiye: VINNIK,  
M.M.; LYSENKO, M.G.; BAKARINOVA, N.M.; NIKITINA, N.A.

Preparation of a tetrasodium pyrophosphate decahydrate food product  
based on phosphoric acid obtained by the extraction method. Khim.-  
prom. no.9:630-632 S '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut po udobreniyam i insekto-  
fungisidam imeni Samoylova i Opytnyy zavod Nauchno-issledovatel'skogo  
instituta po udobreniyam i insektofungisidam imeni Samoylova.  
(Phosphoric acid) (Sodium pyrophosphate)

VINNIK, M.M.; SHELEKHES, T.B.

Development of a rapid method for determining fluorine in boron  
superphosphates. [Trudy] NIUIF no.164:46-47 '59. (MIRA 15:5)  
(Fluorine--Analysis) (Boron phosphates)

VASIL'YEV, Mikhail Petrovich; ALOTIN, Leonid Mikhaylovich; VINNIK,  
N.A., inzh., retsenzent; GONCHAREVICH, I.F., kand. tekhn.  
nauk, retsenzent; SHELKOVYY, A.A., inzh., retsenzent

[Mine haulage] Rudnichnyi transport. 2. izd., dop. i perer.  
Moskva, Nedra, 1964. 376 p. (MIRA 17:9)

TYURYAYEV, I. Ya.; VINNIK, N. F.

Kinetic regularities of the single-stage dehydrogenation of  
n-butane to bivinyl in a vacuum. *Neftkhimia* 2 no.4:436-441  
J1-Ag '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteti-  
cheskogo kauchuka, Yaroslavl'.

(Butane) (Butadiene)

S/204/62/002/004/001/019  
E071/E433

AUTHORS: Tyuryayev, I.Ya., Vinnik, N.F.

TITLE: Kinetic relationships in the single stage  
dehydrogenation of n-butane into divinyl in vacuo

PERIODICAL: Neftekhimiya, v. 2, no.4, 1962, 436-441

TEXT: The single stage dehydrogenation of n-butane into divinyl in vacuo was investigated using a laboratory isothermic reactor with a stationary catalyst. From the analytical results obtained the following factors were calculated: yield of divinyl per pass, degree of conversion, selectivity and degree of conversion, selectivity and degree of single stage. The influence on these factors of temperature, volume velocity, pressure, composition of starting butane-butylene mixture, duration of the dehydrogenation and pretreatment of the catalyst with hydrogen was studied. The yield of divinyl per pass increases with increase of temperature, decrease of pressure, increase of butylene in the starting mixture, decrease of duration of the dehydrogenation (not less than 7 minutes) and at the expense of pretreatment of the catalyst with hydrogen. The degree of single stage increases with decrease

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E071/E433

Kinetic relationships ...

of butylene contents in the starting mixture, decrease of temperature and decrease of volume velocity, with increase of pressure and at the expense of pretreatment of the catalyst with hydrogen. The amount of deposited "carbon" increases with temperature, duration of dehydrogenation and increase of butylene content in the starting mixture. Pretreatment of the catalyst with hydrogen decreases sharply the deposition velocity of the carbon. The selectivity increases by increase of the volume velocity, decrease of temperature or pressure and, especially by pretreatment of the catalyst with hydrogen. On the basis of the data obtained, the optimum conditions for the single stage dehydrogenation of butane on the same catalyst in an adiabatic reactor of periodic action were calculated. There are 4 figures and 2 tables. ✓

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya SK Yaroslavl' (Scientific Research Institute of Monomers for SK Yaroslavl')

Card 2/2

VINNIK, N. Ye.

PIKIN, A.I.; VINNIK, N.Ye.

State artificial insemination stations and stations maintained jointly by collective farms in Poltava Province. Veterinaria 35 (MIRA 11:2) no.2:61-66 F '58.

1. Poltavskoye oblastnoye upravleniye sel'skogo khozyaystva.
  2. Nachal'nik otdela veterinarii (for Pikin).
  3. Glavnyy vetvrach otdela veterinarii (for Vinnik).
- (Poltava Province--Artificial insemination)



VINOGRADOV, A. I. doktor tekhnicheskikh nauk, professor.

Calculating statically indeterminate systems by the method of  
numerical integration. Trudy KHIIT no.23:25-67 '59. (MLBA 10:8)  
(Statics) (Integrals)

VINYL, V.I.

VINNIK, M.M.

2720. The determination of fluorine by a direct  
 alkalimetric titration after distillation. M. M.  
 Vinnik. Materialy Obmena Opytom. Nauch. Inst.  
Zhur. i Inzhiniringa, 1964, (6), 13-22; Ref.  
 Zhur. Khim., 1966, (17), Abstr. No. 37,658. — To  
 determine F, mix the weighed sample (CaF<sub>2</sub>, NaF,  
 K<sub>2</sub>SiF<sub>6</sub>, 0-1 g), apatite (1-5 to 1-8 g), superphosphate  
 (3 to 5 g) with 30 ml of H<sub>2</sub>SO<sub>4</sub> (1:2) and 0-5 to 1 g  
 of quartz sand, and distil off H<sub>2</sub>SiF<sub>6</sub> at 98° to  
 250° C, collecting 17 to 20 ml of distillate in a  
 receiver containing KCl soln. The presence of  
 H<sub>2</sub>BO<sub>3</sub>, colloidal SiO<sub>2</sub>, and salts of Al slows down  
 the distillation. Adjust the pH of the distillate  
 to 3-5 with NaOH soln. in the presence of three  
 drops of mixed indicator (0-1 per cent. alcoholic  
 dimethyl yellow soln. - 0-1 per cent. methylene  
 blue soln. (1:1)). Heat the soln. to boiling point  
 (clear green soln.), add 0-5 ml of 1 per cent. phenol-  
 phthalein soln., and titrate with 0-1 N NaOH to a  
 faint pink. Heat, and if the colour changes,  
 titrate again to a permanent pink. The time of  
 determination is 1-5 to 2-5 hr. C. D. KOPKIN

Chem

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VINNIK, M. M., Cand Chem Sci -- (diss) "Studies on Methods of Determining ~~the Amount of~~ Fluorine in Fertilizers and Certain Salts." Mos, 1958. 19 pp (State Committee of the Council of Ministers USSR on Chemistry. Sci Inst for Fertilizers and Insecto-Fungicides im Prof Ya. V. Samoylov), 150 copies (KL 40-58, 113)

Technology of the printing press Moskva, Gizlegprom, 1940. 275 p.  
(Uchebniki i uchebnye posobiia dlia shkol FZU)

Cyr.4 Z6

Vinnik, K. K.

technology of raised type; textbook Moskva, Gos. nauch.-tekhn. ind-vo tekstil,  
legkoi i poligr. promyshl., 1947. 274 p. (49-18405)

Z256.V5

VINNIK, Mikhail Moiseyevich; BORISHCHEVA, M.M., redaktor; CHICHERIN, A.N.,  
tekhnicheskiy redaktor.

[Color printing] Mnogokrasochnaia tipografskaiia pechat'. Moskva,  
Gos.izd-vo "Iskustvo", 1955. 111 p. MIRA 9:4)

(Color printing)

KATAYEV, Anatoliy Timofeyevich; VINNIK, N.I., red.

[Technology of the manufacture and use of parts from  
molded wood particles in friction subassemblies] Tekh-  
nologiya proizvodstva i primeneniia detalei iz dreves-  
noi press-kroshki v uzlakh treniia. Moskva, Legkaia  
promyshlennost', 1965. 54 p. (MIRA 18:7)



VINNIK, Nikolay Iosifovich; KORYSTIN, Lev Nikolayevich;  
PETROPOL'SKAYA, O.A., red.

[Compressed wood dimensions of the Borovichi Forest  
Industries; methodological handbook on their utilization]  
Pressovannye zagotovki Borovichskogo lespromkhoza; metodi-  
cheskoe rukovodstvo po ispol'zovaniu. Voronezh, TSentral'no-  
Chernozemnoe knizhnoe izd-vo, 1964. 16 p. (MIRA 18:6)

VINNIK, Nikolay Iosifovich; KORYASTIN, Lev Nikolayevich; and GOROV,  
A.V., red.

[Industrial production of compressed wood] Promyshlennoe  
proizvodstvo pressovannoi drevesiny. Moskva, Izd-vo  
"Lesnaia promyshlennost," 1964. 137 p. (MIRA 17:5)

VINNIK, O.F. [Vynnyk, O.F.]

What overall maintenance means. Mekh. sil'. hosp. 14 no.8:8-9  
Ag '63. (MIRA 17:1)

1. Glavnyy inzh. Chernigovskogo rayonnoy ob'yedineniya "Sil'gosp-  
tekhnika" Chernigovskoy oblasti.

VINNIE, O.T.  
Category : USSR/General Problems - Problems of Teaching

..-3

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 5552

Author : Vinnik, O.T.

Title : A Manual of Laboratory Work on the Theoretical Foundations of  
Electrical Engineering.

Orig Pub : Sb. nauch-metod. rabot. Tomskiy elektromekhn. in-t inkh. zh.,-d.  
transp., 1956, vyp. 2, 3-52

Abstract : Description of 21 laboratory projects, the purpose of which is  
an easy acquaintanceship of the students with the phenomena  
occurring in electrical circuits and with the fundamental  
methods used to investigate these circuits.

Card : 1/1

VINNIK, P.

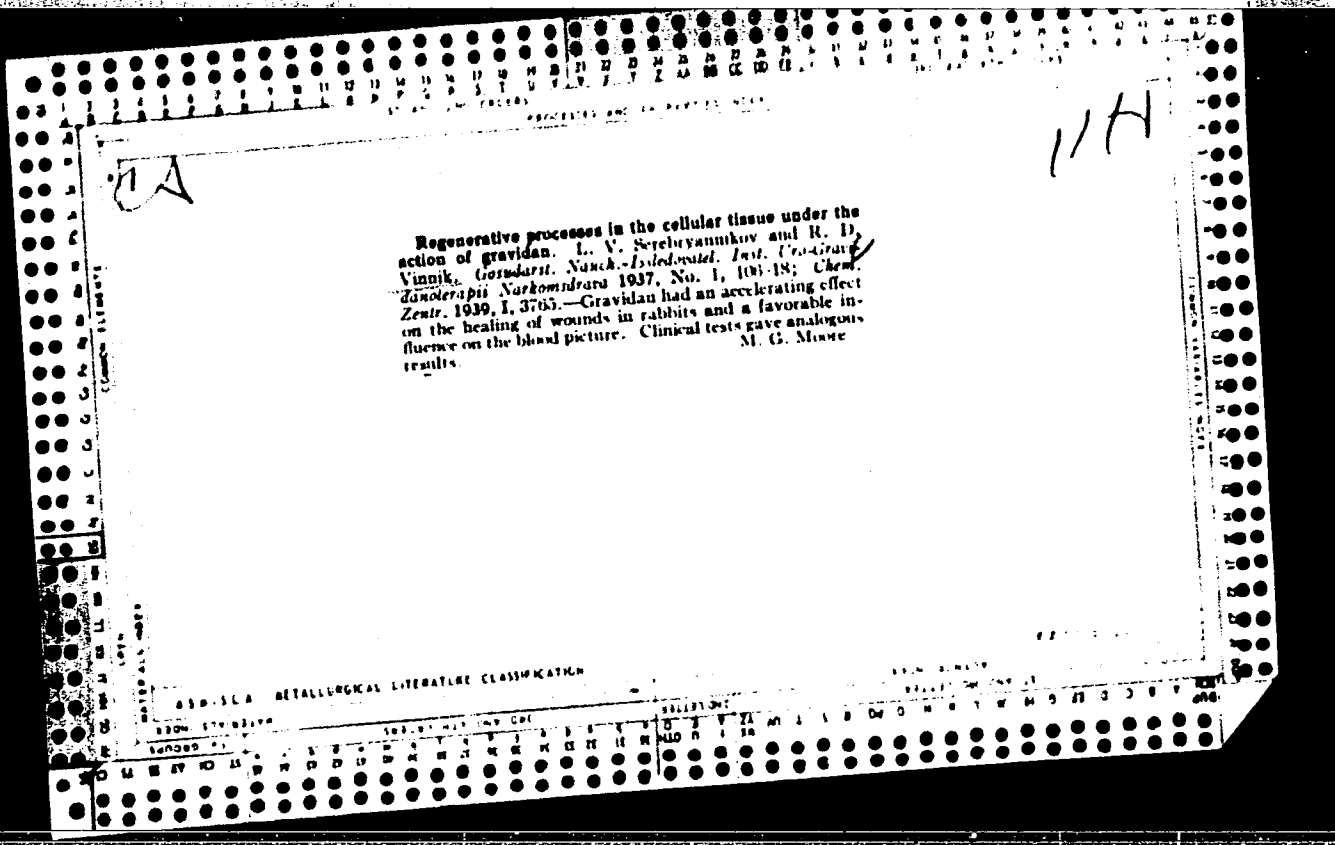
Activity of the Scientific Technological Society of the Novorossiisk Harbor. Mor.flot 21 no.5:35 My '61. (MIRA 14:5)

1. Uchenyy sekretar' pervichnoy organizatsii Nauchno-tehnicheskogo obshchestva vodnogo transporta Novosibirskogo porta.  
(Novorossiisk-Merchant seamen)

VINNIK, P.

Loading and unloading of ammonium sulfate. Mor. flot 23 no.3:13-14,  
Mr '63. (MIRA 16:3)

1. Nachal'nik Feodosiyskogo porta.  
(Ammonium sulfate--Transportation)  
(Cargo handling--Equipment and supplies)



VINNIK, R.L.

Investigating the concentration degree of the excitation process  
in the arc of a firmly established conditioned motor analyzer in  
dogs. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 6:68-77 '61.  
(MIRA 14:12)

1. Iz Laboratorii dvigatel'nykh uslovnykh refleksov, zav. - G.V.  
Skipin.

(CONDITIONED RESPONSE)



VINNIK, R.L.; IVANOVA, N.G.

Interrelation of the foci in the arc of the conditioned motor  
defense reflex. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 7:128-  
133 '62. (MIRA 16:2)

(CONDITIONED RESPONSE)

VINNIK, R.L.

Mechanism of the formation of a temporary connection in the forming of a conditioned defensive motor reflex. Report No. 2: Condition of the points of the cortex united by a temporary connection under conditions of firmly developed conditioned motor defensive reflexes. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 5:178-185 '60. (MIRA 13:10)

1. Iz Laboratorii dvigatel'nykh uslovykh refleksov (zav. - G.V. Skipin) instituta vysshey nervnoy deyatelnosti. (CONDITIONED RESPONSE)

VINNIK, R.L.

Mechanism of the action of aminazine. Trudy Inst. vys. nerv. deiat.  
Ser. fiziol. 5:207-216 '60. (MIRA 13:10)  
(CHLORPROMAZINE) (CONDITIONED RESPONSE)

VINNIK, R.L.

Physiological mechanism of certain forms of defense motor reflexes [with summary in English]. Zhur.vys.nerv.deiat. 8 no.5:693-701 S-0 '58 (MIRA 12:1)

1. Institut vysshey nervnoy deyatel'nosti AN SSSR.  
(REFLEXES,  
defense motor reflex, physiol. mechanisms in dogs  
(Rus))

VINNIK, R.L.

Formation of condition-conditioned motor defense reflexes. Trudy Inst.  
vys. nerv. deiat. Ser. fiziol. 3:213-220 '59. (MIRA 12:3)

1. Iz laboratorii dvigatel'nykh uslovnnykh reflektsov, zav. - G.V. Skipin.  
(CONDITIONED RESPONSE)

SKIPIN, G.V.; ANTONOVA, A.A.; ASLANOVA, I.F.; VINNIK, R.L.

Physiological nature of the so-called spontaneous food movements in dogs. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 1:27-36 '55. (MLR 9:8)

1. Iz laboratorii dvigatel'nykh uslovnykh refleksov, zaveduyushchiy G.V.Skipin.

(CONDITIONED RESPONSE)

VINNIK, R.L.

Mechanism of the formation of temporary connections in forming the conditioned defensive motor reflex. Report No.1: Rise of foci of sluggish stimulation in the production of conditioned motor defensive reflexes. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 4:73-77 '60. (MIRA 13:7)

1. Iz Laboratorii dvigatel'nykh uslovykh refleksov Instituta vysshey nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laboratoriyey G.V. Skipin. (CONDITIONED RESPONSE)





V.I.NNIK S.

VINNIK S.

Solomon Efimovich Kagan. Vest. otorinolar. Vol. 12, No. 2  
Mar-Apr 50 p. 62.

1. Obituary.

CLM. Vol. 19, No. 2 Aug. 1950

VINNIK, S.

Solomon Efimovich Kagan. Vest.otorinolar. 12 no.2:82 Mr-Ap '50.  
(CIML 19:2)

1. Obituary.

SHEVCHENKO, N.F., otv. red.; BABAYEVA, Ye.K., red.; BELOUSOV, Ye.K., red.; VINNIK, S.A., prof., red.; GERSHEVICH, S.A., red.; IOSSET, G.Ya., prof., red.; KATYUKHIN, N.Ya., red.; KISELEVA, A.S., red.; MENSCHIKOVA, L.I., red.; NADGERIYEV, M.K., dots., red.; OBUKHOV, P.F., red.; RUTENBURG, D.M., red.; FAYN, M.A., dots., red.; OVECHKINA, L.S., red.

[Public health in Amur Province; collection of articles]  
Zdravookhranenie Amurskoi oblasti; sbornik statei. Blagoveshchensk, Amurskoe knizhnoe izd-vo, 1962. 236 p.

(MIRA 17:7)

1. Amur (Province) Otdel zdravookhraneniya. 2. Zaveduyushchiy Gospital'noy khirurgicheskoy klinikoy Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Iosset). 3. Blagoveshchenskiy meditsinskiy institut, Amurskaya oblast' (for Obukhov). 4. Zaveduyushchiy Klinikoy obshchey khirurgii Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Nadgeriyev). 5. Zaveduyushchiy Kafedroy otorinolaringologii Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Vinnik). 6. Zaveduyushchiy Kafedroy sudebnoy meditsiny Blagoveshchenskogo meditsinskogo instituta, Amurskaya oblast' (for Fayn).

Vinnik, S. A.

2:963

Khronicheskiy pyeritonzillit. Vvestnik otorinolaringologii, 1969, No. 4,  
s. 51-56. Bibliogr: 11 nazv.

SO: LETOPIS' NO. 40

MUKHAMEDOV, A.A., kand.tekhn.nauk; LEZOV, A.P., starshiy nauchnyy  
sotrudnik; VINNIK, T.D., starshiy prepodavatel'; RUDYUK, S.I.,  
aspirant

Effect of sulfurization on the wear resistance and antifriction  
characteristics of friction surfaces. Izv.vys.ucheb.zav.;  
mashinostr. no.10:37-44 '61. (MIRA 14:12)

1. Sredneaziatskiy politekhnicheskiy institut.  
(Case hardening)  
(Friction)

S/145/61/000/010/001/008  
D221/D304

AUTHORS: Mukhamedov, A. A., Candidate of Technical Sciences,  
Lezov, A. P., Senior Scientific Worker, Vinnik T.D.,  
Senior Lecturer, and Rudyuk, S. I., Aspirant

TITLE: The effect of sulphiding on the wear resistance and  
antifrictional characteristics of friction surfaces

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Mashinostroy-  
eniye, no. 10, 1961, 37-44

TEXT: The article describes the results of investigations carried  
out on the wear resistance of grey cast iron, steel and metallo-  
ceramics. Various conditions of sulphiding, such as temperature  
and media, were kept identical in all cases. The experiments con-  
cerned valve pairs. The spools were made of 12XH3A (12KhNZA), 30  
XГСА (30KhGSA) and 40X (40Kh) steel, the sleeve of 30KhGSA steel.  
Parts of valves were subject to sulphiding after grinding. Those  
made of 30KhGSA and 40Kh steel were treated in an ENIMS bath of  
72%  $K_4Fe(CN)_6$ ; 10%  $Na_2S_2O_3$  and 18% of NaOH. During wear tests, use

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S/145/61/000/010/001/008  
D221/D304

The effect of sulphiding ...

was made of АМГ-10 (AMG-10) fluid. The surface finish was checked by KB-7 (KV-7) profilometer which indicated that the former did not change. The diameters were inspected in two perpendicular planes on a horizontal optometer ИКГ (IKG), for the spool, and by a pneumatic instrument ППО-9М (PPO-9M) for the sleeve. The graphs of results show minimum wear in the non-sulphided spools; the greatest wear was found in sulphided steel 40Kh, and the least by 2KhNZA components. The wear of sleeves working with sulphided spools is reduced by half. The sulphided spools in 40Kh steel showed a sulphur-saturated layer. Some cyaniding takes place in the ENIMS bath due to the presence of CN. The publication of promising results on the increase of wear resistance of metaloceramics by sulphiding induced the Central Laboratory of the Tashsel'mash Factory and the Central Asian Polytechnic Institute to investigate this problem. Sulphiding was made by two methods; in sulphurous iron and annealing with S. The components were iron graphite bushes of various consistencies. Microscopic examinations revealed that the sulphur inclusions are uniformly distributed in the mass of the workpiece.



Card 2/4

S/145/61/000/010/001/008  
D221/D304

The effect of sulphiding ...

with orientation around grains. The bushes were cut into rollers and turned in order to test them on friction, wear and running-in qualities. The anti-scuffing properties were determined by checking wear without lubrication. The graph of results indicates no reduction of wear due to sulphiding, when measurements were made with a passameter. Finally, tests were made for machinability determination, with simultaneous measurement of wear, by the method of Professor M. M. Krushchov. The results are tabulated, and they reveal that the sulphided components are run-in faster than the non-sulphided workpieces. The former also exhibit lower friction force and operate more steadily. The table demonstrates that the sulphur additive promotes greater wear which is contrary to previous investigations. Sulphiding may be recommended in cases where the main requirement is anti-scuffing property and not the wear resistance. There are 2 figures, 4 tables and 8 references: 7 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: F. D. Waterfall, Reducing scuffing and wear of ferrous metals, Surface treatment by sulfidation process. Engineering no. 4846, 1959, 197.

Card 3/4



The effect of sulphiding ...

S/145/61/000/010/001/008  
D221/D304

ASSOCIATION: Sredneaziatskiy politekhnicheskiy institut (Central  
Asian Polytechnic Institute)

SUBMITTED: March 18, 1960

Card 4/4

RABINOVICH, R.I. Primalni uchastiye: ALEGLAN, L.K., kand. sel'khoz. nauk; BARABANOVA, N.N.; BOSENKO, K.S.; VINNIK, V.V.; GRIGORCHUK, Ye.V.; GUMEROV, A.Kh.; DOBROCHASOV, D.F.; ZAMURAYEV, I.V.; ZAYTSEVA, A.G., kand. sel'khoz. nauk; KOL'TSOV, N.A.; LEVITIN, Kh.Z., kand. biol. nauk; LISITSKIY, B.Ya.; MATYASH, G.P.; MENTOV, A.V.; RABINOVICH, R.I.; SAL'NIKOV, V.V.; SVECHNIKOV, I.V.; SIMONOV, P.K.; SMIRNOV, V.V.; SMIRNOV, L.P.; SMIRNOVA, V.I.; STEPANOVA, V.I.; TARASOV, A.A.; FILATOVICH, V.V., kand. sel'khoz. nauk; FEDOROV, N.G., kand. tekhn. nauk; TSAPLIN, M.F.; KHROMOV, L.V.; DAVYDOVA, I., red.; PAL'MINA, N., tekhn. red.

[Sverdlovsk in Agricultural Exhibition of 1959] Sverdlovskaya sel'khoz'istvennaya vystavka. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1960. 131 p. (MIRA 14:10)

1. Sverdlovsk. Sverdlovskaya oblastnaya sel'skokhozyaystvennaya vystavka, 1959.

(Sverdlovsk—Agricultural exhibitions)

VINNIK, V. [Vinnyk, V.], vrach

Truth about "miraculous" cures. Znan.ta pratsia no.2:10-11  
F '60. (MIRA 13:5)

(Miracles)

BESSMERTNOV, M.A.; VINNIK, V.A.; MATVEYEV, I.V.; SAZANOV, A.A.

Results of visual observations of variable stars according to the  
program of the Kuybyshev Astronomical Observatory. Per.zvezdy 12  
no.5:353-357 N '58. (MIRA 13:9)

1. Kuybyshevskaya astronomicheskaya observatoriya Vsesoyuznogo  
astronomo-gedezicheskogo obshchestva:  
(Stars, Variable)

VINNIK, V.P.

Young tourists and the harvesting of medicinal herbs. Apt.delo  
8 no.3:52-54 My-Je '59. (MIRA 12:8)

1. Metodist Tsentral'noy detskoy ekspursionno-turistskoy  
stantsii Ministerstva prosveshcheniya RSFSR.  
(BOTANY, MEDICAL) (PIONEERS (COMMUNIST YOUTH))

VINNIK, V.S., inzh.-podpolkovnik.

Instructive experience in the organization of the servicing of  
airplane equipment. Vest. Vozd. Fl. 41 no.8:59-64 Ag '58.  
(MIRA 11:9)

(Airplanes--Maintenance and repair)

VINNIKOV, (fn)

M: Vozdushnyye Puti Severa (The Air - Roads of the North) 1933

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 85498 UNCLASSIFIED

VINNIKOV, A.

Train staunch and courageous fighters. Voen. znan. 40 no.1:  
15-16 Ja '64. (MIRA 17:4)

1. Zamestitel' po politicheskoy chasti komandira otryada grazhdanskoy  
oborony ordena Lenina zavoda "Postsel'mash".



KUTATELADZE, S.S., prof., doktor tekhn.nauk; VINNIKOV, A.A., inzh.

Graph for calculating the heat conductivity of plates, cylinders,  
and spheres with linear variation in the temperature of the external  
medium. Izv. vys. ucheb. zav.; energ. 3 no.8:85-97 Ag '60.  
(MIRA 13:9)

1. Tsentral'nyy nauchno-issledovatel'skiy kotloturbiny institut  
im. I.I.Polzunova.

(Heat--Conduction)

Vinnikov, A. G.

SUBJECT: USSR/Welding 135-3-7/17

AUTHORS: Gerasimenko, I.N., Engineer, and Vinnikov, A.G., Engineer.

TITLE: Semi-Automatic Welding in Carbon Dioxide. (Primeneniye polu-avtomaticheskoy svarki v uglekislom gase).

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 3, pp 15-17 (USSR)

ABSTRACT: The experience of the Podol'sk Machine Building Plant "Imeni Ordzhonikidze" in the field of arc welding under a carbon dioxide gas shield is described in detail as well as material, equipment and methods employed.

For welding low-carbon steel "CT,3" and other materials the welding wire "CB-0.8FC" (by the special technical conditions "4MTY5142-55", developed at TsNIITMASH) having the following composition is used (in %): not over 0.1 C, 0.7-1.0 Si, 1.0-1.3 Mn, not over 0.2 Cr, not over 0.3 Ni, not over 0.03 S, not over 0.04 P. For shielding, liquid carbon dioxide is being utilized, containing 98 % CO<sub>2</sub>, not more than 2 % (O<sub>2</sub>+N<sub>2</sub>) and no traces of CO, SO<sub>3</sub>, H<sub>2</sub>S, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, H<sub>2</sub>O. It is delivered in 25 kg steel containers, which yield 10-12 m<sup>3</sup> carbon dioxide gas when evaporated. Circuit diagrams are shown for the semi-

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135-3-7/17

**TITLE:** Semi-Automatic Welding in Carbon Dioxide. (Primeneniye polu-avtomaticheskoy svarki v uglekielom gaze).  
automatic welding machines "ПАУМ-500", "ПШ-5", and the generator "ГС-500". The two special electrodes - one of them was designed by the plant - are shown in drawings. The welding technology is described in detail, including surface preparation, the correct position of electrodes in welding, the electric current, and the gas consumption.

The impact resistance of specimens of steel "СТ.3" welded by the shielded arc method is on the average 13.2 kg/cm<sup>2</sup>; after 10 % deformation and aging at 250° during one hour, the impact resistance is reduced to 5.6 kg/cm<sup>2</sup> which is still sufficient.

The article contains 3 electric circuit diagrams, 3 drawings, two tables and 1 photograph.

**ASSOCIATION:** Podol'sk Machinebuilding Plant "imeni Ordzhonikidze".  
(Podol'skiy Mashinostroitel'nyi Zavod imeni Ordzhonikidze)

**PRESENTED BY:**

**SUBMITTED:**

**AVAILABLE:** At the Library of Congress.

Card 2/2

VINNIKOV, D.

Meat Industry and Trade - White Russia

Construction and restoration of meat combines in Byelorussia. Mias. ind. SSSR no. 2, 1952.

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

VINNIKOV, D.

Construction of meat handling plants in White Russia. Mias.ind.SSSR  
26 no.2:36-38 '55. (MIRA 8:7)

1. Belglavmyaso. (White Russia--Packing houses)  
(White Russia--Poultry Plants)

VINNIKOV, DM:

Dorozhnoe stroitel'stvo v Mogilevskom raione. <sup>[Road construction in the Mogilev</sup>  
region]. (Doroga i avtomobil', 1937, no. 6, p. 55-). <sup>DLC: TEL.E6</sup>

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,  
Reference Department, Washington, 1952, Unclassified.

VESELOV, V.A.; VESELOV, G.N.; POBRODAUROV, G.V.

Application of induction and semiconductor heating in the processing  
of plastics into articles. Trudy MIKIM 27:167-171 '64. (MIRA 1:18)

VINNIKOV, D.N., inzh.

Determination of the maximum angular velocity of the armature of  
a d.c. motor with change in magnetic flux. Vest. elektroprom. 34  
no.4:51-54 Ap '63. (MIRA 16:10)



38541  
S/196/62/000/011/001/009  
E200/E185

94.2300

AUTHOR: Vinnikov, D.N.

TITLE:

Use of the symbolic method to demonstrate the generation of a rotating magnetic field

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.11, 1962, 4, abstract 11 All. (Tr. Mosk. in-ta khim. mashinostr., v.21, 1960, 89-91

TEXT: The magnetic induction in the air-gap field produced by the phase windings at any point of the stator circumference may be represented in the form:

$$B_1 = B_M \cos \omega t = B_M (\exp j\omega t + \exp - j\omega t);$$

$$B_2 = B_M \left[ \exp j \left( \omega t - \frac{2}{3} \pi \right) + \exp - j \left( \omega t - \frac{2}{3} \pi \right) \right] \times \exp - j \frac{2}{3} \pi ;$$

$$B_3 = B_M \left[ \exp j \left( \omega t - \frac{4}{3} \pi \right) + \exp - j \left( \omega t - \frac{4}{3} \pi \right) \right] \times \exp - j \frac{4}{3} \pi .$$

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Use of the symbolic method to ...

S/196/62/000/011/001/009  
E200/E185

Upon adding the instantaneous values of the magnetic induction  $B_1$ ,  $B_2$  and  $B_3$ , it is obtained that the resultant value of the magnetic induction will be  $B_{res} = \frac{3}{2} B_M \exp - j\omega t$ .

7.

The rotation of the magnetic induction vector with an angular velocity is indicated by the operator  $\exp - j\omega t$ .

[Abstractor's note: Complete translation.]

Card 2/2

VINNIKOV, E. A.

The nature of the primary products of reaction of amines  
with nitrous acid. B. I. Stepanov, E. A. Vinnikov, and  
E. S. Lisitsyna. *J. Gen. Chem.* 1957, 447-50  
(1955) [Engl. translation].—See C.A. 50, 5598i.

B. M. R.

*Chem*

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*PM*

DANDENS, Ya.; YATSEVICHUS, I. [Jacevicius, I.]; GOL'DENBERG, A.; KHARIN, B.,  
inzh. (Leningrad); MOVA, N., inzh.; VINNIKOV, E. (Gomel');  
MAMYKIN, I. (Gomel'); BENDERSKIY, A., starshiy inzh. (pos. Igra,  
Udmurtskoy ASSR); CHERTETSOV, V.; OSIPOV, I.; SIROTININ, M.I.

Exchange of news and experience. Izobr.i rats. no.4:25-26 Ap '62.  
(MIRA 15:4)

1. Sekretar' Respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Riga (for Danders).
2. Glavnyy inzh. mezhdugorodnoy telefonnoy stantsii, g. Vil'nyus (for Yatsevichus).
3. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Ufa (for Gol'denberg).
4. Krayevoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Krasnodar (for Mova).
5. Igrinskiy lespromkhoz kombinata "Udmurtles", (for Benderskiy).
6. Predsedatel' Krasnoyarskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Sirotinin).  
(Technological innovations)

VINNIKOV, I., inzhener.

The "Dinbass-2" cutter-loader. Mast. ugl. 5 no. 7:22-23 J1 '56.  
(Coal mining machinery) (MIRA 9:9)

YANITSKIY, G., tekhnik; ARAKLOVA, O.; KOMAROVA, V.; SHCHEKOTKOV, A.,  
montazhnik (g.Moskva); VINNIKOV, F.

Suggested, created, introduced. Izobr.i rats. no.6:10-11 Je  
'62. (MIRA 15:6)

1. Predsedatel' Soveta Vsesoyuznogo obshchestva izobretateley  
i ratsionalizatorov neftepromyslovogo upravleniya "Ordzhonikidzenef",  
g. Baku (for Arakelova). 2. Sotrudnitsa Vystavki dostizheniy  
narodnogo khozyaystva SSSR (for Komarova).  
(Technological innovations)



VINNIKOV, I. A.

EXCERPTA MEDICA Sec.5 Vol.9/12 Pathology Dec '56

3540. VINNIKOV I. A., Lab. of Comparative Anat. and Histol., Acad. of Med. Scis, Moscow. \*The histological changes in the linings of the nasal cavities and in the organ of smell in monkeys caused by experimentally induced poliomyelitis (Russian text) KORSKOFF Z. NEVROPAT. PSIKHIAT. (Mosk.) 1955, 55/2 (105-109)

A statement is made of the findings gained by histological investigation of the linings of the nasal cavities and the organ of smell in monkeys (*Macacus rhesus*), when infected by the virus of poliomyelitis in different ways: 7 animals were infected through the nose; 11 monkeys, serving as controls, were infected through the tonsils. In this latter group, no changes of any kind were found in the nasal mucosa. In the animals infected through the nose, different stages of necrobiosis were seen on the 3rd-10th day of the illness in the stratified, ciliated epithelium and oedema in the subjacent connective tissue. A reactive, proliferative reaction was noticed in the sensory nerve endings in the form of a multitude of club-shaped bodies, invading the respiratory epithelium; and distinct myelin lesions, vacuolization and dissolution. The myelin destruction was accompanied by accumulation of connective tissue cells with lipoid granules inclusions. In the receptor cells of the mucosa, necrobiotic changes and characteristic pictures of a retrograde degeneration in the central, axon-like processes were seen. Heavy destructive changes and oedema were observed in the bundles of the olfactory nerve, in the olfactory bulbs, in the first neurone of the olfactory analyser, in the mitral cells, in the neurones of the vegetative system and in the fibres of the trigeminal nerve

system. The progress of the virus along the nervous system considerably outstrips the cycle of the morphological changes. Uranova - Moscow (XX, 5,11)



L 56512-65 EWT(1)/EWA(h) Feb  
ACCESSION NR: AP5016764

UR/0286/65/000/010/0084/0084  
681.142

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B

AUTHOR: Khomeriki, O. K.; Vinnikov, I. L.

TITLE: A multiplier. Class 42, No. 171168

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 84

TOPIC TAGS: computer component, Hall device, computer technology

ABSTRACT: This Author's Certificate introduces a multiplier which uses a Hall emf detector. Provision is made for compensating current changes in the Hall device associated with changes in the detector resistance which take place in a magnetic field. A nonlinear resistor whose value depends on the supply voltage is connected in series with the magnetization winding of the electromagnetic system.

ASSOCIATION: Institut elektroniki, avtomatiki i telemekhaniki AN gruzinskoy SSR  
(Institute of Electronics, Automation and Remote Control, AN Georgian SSR)

SUBMITTED: 06Jan64

ENCL: 00

SUB CODE: DP

Card 1/2

L 56512-65

ACCESSION NR: AP5016764

0

NO REF SOV: 000

OTHER: 000

*Good*  
Card 2/2

BEZHANOV, Vadim Grigor'yevich; VINNIKOV, Isaak Lazarevich

System for the experimental study of the commutation of d.c.  
machines. Izv.vys.ucheb.zav.; elektromekh. 7 no.12:1428-1435  
'64. (MIRA 18:2)

1. Vedushchiye inzhenery Tbilisskogo nauchno-issledovatel'skogo  
elektrotekhnicheskogo instituta.

VINNIKOV, Ivan Rodionovich; SIZOV, Vladimir Maksimovich; EURLYCA,  
F.I., red.

[The "Donbass-2k" coal cutter-loader] Ugol'nyi kor bain  
"Donbass-2k." Donetsk, Donetskoe knizhnoe izd-vo, 1963.  
28 p. (MIRA 17:8)

BEZHANOV, V.G., inzh. (Tbilisi); VINNIKOV, I.L., inzh. (Tbilisi)

Methods for objective evaluation of the sparking of d.c.  
machines. Elektrichestvo no.11:53-57 N '63. (MIRA 16:11)

VINNIKOV, I.L.

"Testing electric mechanisms of electric rolling stock in depots"  
by N.I. Ermakov. Reviewed by I.L. Vinnikov. Vest. TSNII MPS 17  
no.2:63-64 Mr '58. (MIRA 114)

1. Tbilisskiy institut inzhenerov zheleznodorozhnogo transporta.  
(Electric railroads--Equipment and supplies--Testing)  
(Ermakov, N.I.)

*В.И.В.Т.КОВ, И.Л.*

VINNIKOV, I.L., inzhener (Tbilisi).

Device for testing armature windings of electric motors. Elek.1  
tepl.tiaga no.7:35 J1 '57. (MIRA 10:9)  
(Armatures)

VINNIKOV, I.F.; DOROVSKOY, V.Ye; FUZACHEV, S.I.; OL'KHOVOY, V.; BELOUSOV, S.

[Our work experience] Nash opyt raboty. Moskva, Ugletekhnizdat, 1953.  
31 p. (MLRA 7:1)

1. Mashinist kombayna shakhty imeni S.M.Kirova tresta. Nesvetayantratsit kombinata Rostovugol' (for Vinnikov). 2. Mashinist kombayna shakhty "Okt'yabr'skaya revolyutsiya" tresta Shakhtantratsit, master ugl'ya (for Fuzachev). 3. Prokhodchik shakhty imeni Vorovskogo tresta Shakhtantratsit, Pochetnyy shakhter (for Dorovskoy). 4. Mashinist vrubovoy mashiny shakhty "Novo-Azovskaya" tresta Shakhtantratsit, master ugl'ya (for Ol'khovoy). 5. Perenoschik konveyera shakhty "Komsomol'skaya pravda" tresta Shakhtantratsit, Pochetnyy shakhter (for Belousov).  
(Coal mines and mining)



BEZHANOV, V.G., inzh.; VINNIKOV, I.L., inzh.; VAYNSHTEYN, B.Z., inzh.

Study of the commutation of an electric traction machine with a laminated yoke operating with a pulsating potential. Vest. elektropron.  
31 no.10:13-15 0 '60. (MIRA 15:1)  
(Electric railway motors) (Electric locomotives)

VINNIKOV, I. P.

✓

ARUTYUNYAN, Suren Mikheylovich; YINNIKOV, Ivan Rodionovich; ASTAKHOV,  
A.V., red.izd-va; SABITOV, A., tekhn.red.

[Donbess-2k cutter-loader for coal] Ugol'nyi kombain  
"Donbess-2k." Izd.2., perer. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po gornomu delu, 1961. 270 p.

(MIRA 14:4)

(Coal mining machinery)

VINNIKOV, IVAN RADIONOVICH

ARUTYUNYAN, Suren Mikhaylovich; VINNIKOV, Ivan Radionovich; BASHKOV, A.I.,  
otvetstvennyy redaktor; KOROVENKOVA, Z.A., tekhnicheskiiy redaktor

["Donbass-2" cutter-loader; a manual on its operation, maintenance  
and servicing] Ugol'nyi kombain "Donbass-2"; rukovodstvo po ekspluata-  
tsii, ukhodu i obsluzhivaniiu. Moskva, Ugletekhizdat, 1957. 211 p.  
(Coal mining machinery) (MLRA 10:8)

VINNIKOV, Il'ya Zakharovich, inzh.; FRENKEL', Mikhail Issakovich;  
KULIKOV, N.V., nauchnyy red.; BASHKOVICH, A.L., red.;  
SUSHKEVICH, V.I., tekhn.red.; TOKER, A.M., tekhn.red.

[Driller] Sverlovshchik. Moskva, Vses.uchebno-pedagog.izd-vo  
Proftekhizdat, 1960. 198 p. (MIRA 14:3)  
(Drilling and boring)

WINTERS, R.L.

Method of determining outgoing radiation in the area of a window  
of 8-12  $\mu$  atmospheric transparency. *Trudy GGO no.168:101-106 '65.*

Outgoing radiation of the earth-atmosphere system. *Ibid.:123-140*  
(MIRA 18:8)

VINNIKOV, K.Ya.

Albedo of the earth-atmosphere system and the field of outgoing  
short-wave radiation. Trudy GGO no.170:207-213 '65.  
(MIRA 18:9)

VINNIKOV, K.Ya.

New calculation of the heat balance of the earth-atmosphere system.  
Meteor. i gidrol. no.8:32-37 Ag '65. (MIRA 18:7)

1. Glavnaya geofizicheskaya observatoriya.



L 1858-66 EWT(1) GW  
ACCESSION NR: AT5025242

UR/2531/65/000/170/0207/0213

AUTHOR: Vinnikov, K. Ya.  
44,55

19  
16  
GH

TITLE: Albedo of the earth-atmosphere system and the field of outgoing shortwave radiation

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 170, 1965. Issledovaniye radiatsionnykh protsessov v atmosfere (Investigation of radiation processes in the atmosphere), 207-213

TOPIC TAGS: albedo, linear function, geographic latitude, shortwave solar radiation, summer solstice, winter solstice

ABSTRACT: The albedo of the earth-atmosphere system was computed by various formulas yielding different results. K. Ya. Vinnikov computed the albedo  $\alpha_s$  by the formula  $\alpha_s = f(\alpha_1)(1-n) + \alpha'n$ , where  $f(\alpha_1)$  characterizes the  $\alpha_s$  depending upon the albedo of the earth's surface with a cloudless sky,  $\alpha'$  is the mean value of the albedo of the earth-atmosphere system with a cloudy sky, and  $n$  is a fraction characterizing the cloud state. An analysis of theoretical computations, taking into consideration the model of a typical cloudless atmosphere, stated that the albedo of the system is a linear function of the albedo of the earth's surface when

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ACCESSION NR: AT5025242

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the sun is 30° high. The formula for  $\alpha_g$  may be used for all regions of the earth and in all seasons. Data from 260 observation stations covering the whole world were used for determining the albedo of the earth-atmosphere system, of which 164 were located on dry land and 96 at sea. The mean annual albedo of the system is computed from these data and represented in percentages on a map in the original article. The albedo is higher on dry land than on the water. A winter maximum is found in snow-covered regions. A table in the original article represents the distribution by geographic latitude of the albedo over the earth's surface. The outgoing reflected shortwave solar radiation is computed from the annual values of the albedo and represented on a map. The maximum of reflected solar radiation is found in the equatorial zone above the continents and the minimum in the polar regions. The polar regions receive no solar radiation during the winter solstice period, while they receive the maximum solar radiation in the summer solstice. The reflected radiation depends more upon local conditions than upon the zonal position of the region. Orig. art. has: 4 figures, 2 tables, and 4 formulas. [EG]

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

44,55

SUBMITTED: 00  
 NO REF SOV: 012  
 Card 2/209

ENCL: 00  
 OTHER: 007

SUB CODE: E3AA  
 ATD PRESS: 4/12

BRAYNIN, E.S., dan. BRAYNIN, E.S., inzh.

Flaw detection in the welded joints of electrical contacts.  
Elektrotehnika 36 no. 6:54-58 Ja '65.

(MIRA 1817)

KAGAN, R.L.; VINNIKOV, K.Ya.

Mapping of radiation measurements from meteorological satellites.  
Trudy GGO no.166:227-234 '64.

(MIRA 17:11)