

LITVINCHUK, M.D.; LEPESHKIN, P.P.; SAVENKO, S.S.

Mobile FP-1 flux pad for the welding of longitudinal cylindrical
shell joints. Avtom. svar. 16 no.9:92 S '63. (MIRA 16:10)

LEPESHKIN, V., tekhnik

Sharing the collective's life. Sov. profsoiuzy 16 no.24:45-46 D
'60. (MIRA 14:1)

1. Chlen pravleniya kluba Monzenskogo lespromkhoza Vologodskoy
oblasti.

(Vologda Province--Lumbering)
(Vologda Province--Trade unions)

LEPESHKIN, V.

Friendship with the club. Okhr. truda i sots. strakh. 4
no.5:11-12 My '61. (MIRA 14:5)

1. Chlen kul'turno-massovoy komissii rabocheho komiteta
Monzenskogo lespromkhozha, Vologodskaya oblast'.
(Vologda Province—Industrial recreation)
(Vologda Province—Safety education)

KUZNETSOV, Georgiy Alekseyevich; ~~LEPESHKIN, Vladimir Ivanovich;~~
KHRONOPULO, M.P., red.; FOMICHEV, P.M., ~~skhn.red.~~

[Raising for-bearing animals; practical manual] Razvedenie
pushnykh zveri; prakticheskoe posobie. Moskva, Izd-vo
TSentrosoiuza, 1958. 82 p. (MIRA 12:12)
(Fur-bearing animals)

LEPESHKIN, Vladimir Ivanovich; ANFAKHOV, S.A., red.; LOGINOVA, Ye.I.,
tekhn.red.

[Breeding Angora rabbits] Razvedenie pukhovykh krolikov.
Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1959. 15 p.

(MIRA 14:1)

(Rabbits)

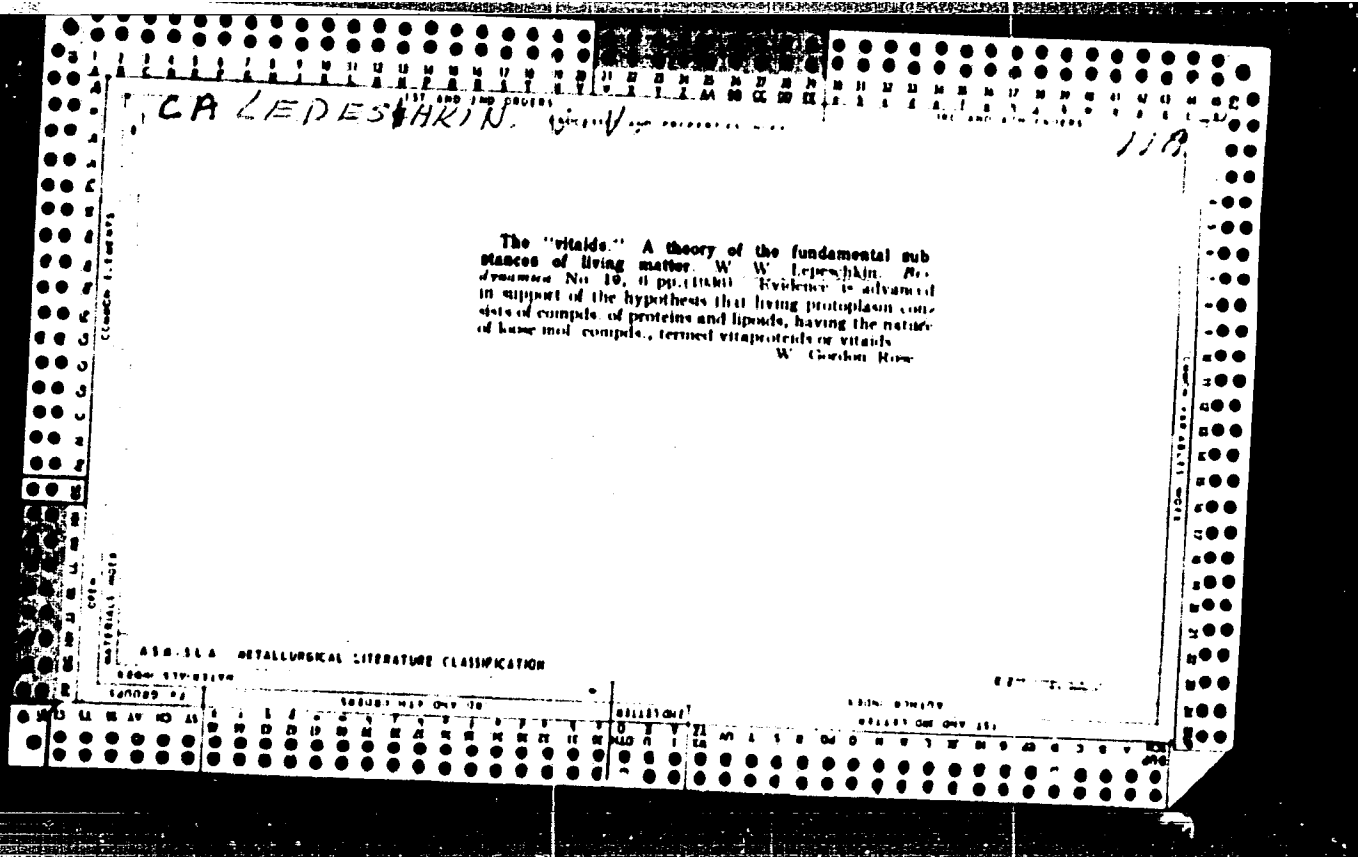
LEPESHKIN, Vladimir Ivanovich; MESHCHANKINA, A.B., red.; SAYTANIDI,
L.D., tekhn. red.

[How to obtain high-quality rabbit furs] Kak poluchit' ot krolika
vysokokachestvennuiu shkurku. Moskva, Izd-vo M-va sel'.khoz.
RSFSR, 1959. 33 p. (MIRA 14:9)
(Rabbits)

KVAPILEV, A.I., kand. sel'khoz. nauk; SEREBRYAKOV, K.M., nauchnyy sotrud.;
DEMINA, M.F., kand. biolog. nauk; ZUSMAN, N.S., kand. biolog. nauk;
LEPESHKIN, V.I., nauchnyy sotrud.; LEONTYUK, S.V., kand. veter. nauk;
GUSEV, S.A., kand. veter. nauk; DOBYCHINA, I.N., red.; PROKOP'YEVA,
L.N., tekhn. red.

[Rabbit raising] Krolikovodstvo. Moskva, Gos. izd-vo sel'khoz. lit-
ry, 1960. 311 p. (MIRA 14:9)

1. Sotrudniki Nauchno-issledovatel'skogo instituta pushnogo zverovodstva i krolikovodstva (for all except Dobychina, Prokof'yeva).
(Rabbits)



LEPESHKIN, V.V.

Temperature coefficients for the heat denaturation of serum proteins. W. W. Lepeschkin. *Kolloid-Z.* 140, 42-3 (1965); cf. *C.A.* 17, 405, 1490, 2690. —L. suggests that heat denaturation, which commences with hydrolysis, destroys the —S—S— bonds, thereby facilitating further chem. changes. These bonds lie much deeper in the albumin mol. than in the globulin mol., so that water mol. must traverse a longer path to reach them. Temp. coeffs. for serum albumin (I) are larger than either pseudoglobulin (II) or euglobulin (III). Q_{10} for I between 56.1, 58.9 and 69.0°, 22 and 10×10^3 ; for II between 67.9, 69.9 and 71.8°, 74 and 88×10^3 , resp.; for III between 67.9, 69.8, 72.1 and 74.1°, 91, 18 and 34×10^3 , resp. At any one temp., I, which is most hydrophilic, has the fastest rate of denaturation. M. Fishman

MIROLYUBOV, G.P. (Moskva); LEPESHKIN, V.V. (Moskva)

Device for determining the sidcriminable frequency of light
flashes. Zhur.vys.nerv.deiat.13 no.2:371-372 Mr-Ap'63.
(VISUAL DISCRIMINATION) (MIRA 16:9)

NADVIKOV, A.M.; LEPESHKIN, Yu.I.

Grinding slotter rams on the 345A groove-grinding machine. Stan.i
instr. 32 no.10:39 0 '61. (MIRA 14:9)
(Grinding and polishing)

MANENKOV, P.V., prof.; LEPESHKINA, A.S.

Late pregnancy toxemias. Kaz.med. zhur. no.2:64-66 Mr-Apr'63.
(MIRA 16:11)

1. Akusherskoye otdeleniye Respublikanskoy klinicheskoy bol'nitsy Ministerstva zdravookhraneniya Tatarskoy ASSR (glavnyy vrach - Sh.V.Bikchurin [deceased]).

*

DASHEVSKAYA, R.Sh., kand. med. nauk ; LEPESHKINA, A.S.

Course of Werlof's disease in pregnancy. Akush. i gin. 39 no.4:
76-78 J1-Ag'63 (MIRA 16:12)

1. Iz terapevticheskogo otdeleniya (zav. - prof. Z.I.Malkin)
i akusherskogo otdeleniya (nauchnyy rukovoditel' - prof. P.V.
Manenkov) Respublikanskoy klinicheskoy bol'nitsy, Kazan'.

ROSSOLIMO, O.K.; LEPESHKINA, O.M.

Study of the toxicity and of therapeutic properties of crystalline actinomycins [with summary in French, p.62] Antibiotiki 1 no.4: 5-9 J1-Ag '56. (MIRA 9:11)

1. Laboratoriya izucheniya lechebnykh svoystv novykh antibiotikov (zav. - doktor med. nauk V.A.Shorin) Instituta po izyskaniyu novykh antibiotikov ANH SSSR.

(ANTIBIOTICS

actinomycin, toxicity & ther. characteristics)

ROSSOLIMO, O.K.; STANISLAVSKAYA, M.S.; LEPESHKINA, G.N.

Experimental studies on the antineoplastic properties of a new antibiotic 6270. Antibiotiki 4 no.6:54-59 N-D '59. (MIRA 13:3)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh svoystv novykh antibiotikov (zaveduyushchiy - prof. V.A. Shorin) Instituta po izyskaniyu novykh antibiotikov AMN SSSR.

(ANTIBIOTICS pharmacol.)

(ANTINEOPLASTIC AGENTS pharmacol.)

ROSSOLIMO, O.K.; LEPESHKINA, G.N.

Comparative evaluation of the antitumor activity of the antibiotic
6270 and certain preparations from the chlorethylamine group.
Antibiotiki 6 no.1:39-42 Ja '61. (MIRA 14:5)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh svoystv
novykh antibiotikov (zav. - prof. V.A.Shorin) Instituta po izyskaniyu
novykh antibiotikov AMN SSSR.
(ANTIBIOTICS) (NITROGEN MUSTARDS)

ROSSOLIMO, O.K.; STANISLAVSKAYA, M.S.; LEPESHKINA, G.N.

Study of the combined effect of the antibiotic 6270 and of some synthetic preparations with an inhibitory effect on the growth of experimental tumors. Antibiotiki 6 no.6:479-484 Je '61.
(MIRA 15:1)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh svoystv novykh antibiotikov (zav. - prof. V.A.Shorin) Instituta po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIBIOTICS) (TUMORS)

ROSSOLIMO, O.K.; LEPESHKINA, G.N.

Comparative evaluation of the antineoplastic activity of
antibiotic 6270 and echinomycin. Antibiotiki 7 no.4:345-348
Ap '62. (MIRA 15:3)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh
svoystv novykh antibiotikov (zav. - prof. V.A. Shorin)
Instituta po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIBIOTICS) (CYTOTOXIC DRUGS) (ECHINOMYCIN)

SHORIN, V.A.; ROSSOLIMO, O.K.; STANISLAVSKAYA, M.S.; BLYUMBERG, N.A.;
FILIPPOS'YAN, S.T.; LEPESHKINA, G.N.

Antineoplastic activity of the antibiotic olivomycin. Antibiotiki
7 no.3:60-64 Mr '62. (MIRA 15:3)

1. Institut po izyskaniya novykh antibiotikov AMN SSSR.
(ANTIBIOTICS)
(CYTOTOXIC DRUGS)

TRUNOV, I.P., LEPESHKINA, N.I., redaktor; VEDENEYEV, Ye.A., tekhnicheskiy redaktor

[Measurements studies in a secondary-school mathematics course]
Izmeritel'nye raboty na mestnosti v kurse matematiki srednei shkoly.
Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia
RSFSR, 1954. 71 p. (MLRA 8:3)
(Surveying--Study and teaching)

GUREVICH, V.B.; IMPESHKINA, N.I., redaktor; RYBIN, I.V., tekhnicheskii redaktor.

[Assignments for students taking secondary school correspondence courses; algebra and geometry. Class 7.] Zadaniia dlia uchashchikhsia zaachnoi srednei shkoly; algebra i geometriia. VII klass. Sostavil V.B.Gurevich. Izd. 8-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1954. 79 p. (MLRA 8:1)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye shkol.
(Algebra--Study and teaching) (Geometry--Study and teaching)

ISTOMINA, N.S.; LEPESHKINA, N.I., redaktor; RYBIN, I.V., tekhnicheskiy
redaktor

[Algebra lesson plans for the 6th class; work practice] Plany
urokov po algebre v VI klasse; iz opyta raboty. Moskva, Gos.
Uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1954.
117 p. (MLRA 7:9)

(Algebra--Study and teaching)

LEPESHKINA, N. I.

DENISOVA, Tat'yana Nikolayevna; GEORGIYEVSKAYA, Valentina Stepanovna;
LEPESHKINA, N. I., redaktor; SHIKIN, S. T., tekhnicheskiy redaktor

[Lesson plans in algebra for class 7; from teaching practices] Plany
urokov po algebre v VII klasse; iz opyta raboty. Moskva, Gos. uchebno-
pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1954. 174 p.
(Algebra--Study and teaching) (MLRA 8:4)

ЛЕПЕШКИНА, М.И.

ZAYTSEVA, Nina Yakovlevna; ZYKUS, Aleksandra Ivanovna; ERASTOVA,
Anna Nikolayevna; LEPESHKINA, M.I., redaktor; RYBIN, I.V.,
tekhnicheskiy redaktor.

[Arithmetic lesson plans for class 5] Plany urokov po arif-
metike v 5.klasse. Moskva, Gos. uchebno-pedagog. izd-vo.
Ministerstva prosveshchenia RSFSR, 1954, 147 p. (MLRA 8:8)
(Arithmetic--Study and teaching)

ANDRONOV, I.K., professor; LEPESHKINA, N.I., redaktor; SHIKIN, S.T., tekhnicheskii redaktor.

[Arithmetic of natural numbers] Arifmetika natural'nykh chisel. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1954.
191 p. (MLA 8:1)

(Arithmetic)

BRADIS, Vladimir Modestovich; LEPESHKINA, N.I., redaktor; RYBIN, I.V.,
tekhnicheskii redaktor.

[Theoretical arithmetic] Teoreticheskaya arifmetika. Moskva, Gos:
uchebno-pedagog.izd-vo Ministerstva prosveshcheniya RSFSR, 1954.
207 p. [Microfilm] (MLRA 8:5)
(Arithmetic) (Numbers, Theory of)

SENNIKOV, Genadiy Petrevich; LEPESHKINA, N.I., redaktor; RYBIN, I.V.,
tekhnicheskii redaktor.

[Solving construction problems in classes 6-8; teacher's
manual] Reshenie zadach na postroenie v VI-VIII klassakh;
posobie dlia uchitelei, Moskva, Gos.uchebno-pedagog. izd-vo
Ministerstva prosveshchenia RSFSR, 1955. 154 p. (MLRA 9:6)
(Geometry--Study and teaching)

PCHILKO, Aleksandr Spiridonovich; POLYAK, Grigoriy Borisovich; LEPESHKINA,
N.I., redaktor; MAKHOVA, N.N., tekhnicheskii redaktor

[Arithmetic; textbook for grade 4 of the elementary school] Arif-
metika; uchebnik dlia 4-go klassa nachal'noi shkoly. Moskva, Gos.
uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1955.
158 p. (MLRA 8:7)

(Arithmetic--Study and teaching)

ANDRONOV. Ivan Kus'mich, professor; LEPESHKINA, N.I., redaktor; SHIKIN,
S.T., tekhnicheskiy redaktor

[The arithmetic of fractions and fundamental values; a manual for
secondary schools] Arifmetika drobnykh chisel i osnovnykh velichin;
posobie dlia srednikh shkol. Moskva, Gos. uchebno-pedagog. izd-vo
Ministerstva prosveshchenia RSFSR, 1955. 343 p. (MLRA 9:8)
(Fractions)

BARSUKOV, Aleksandr Nikolayevich; LEPESHKINA, N.I., redaktor; RYBIN, I.V.,
tekhnicheskii redaktor.

[Algebra; textbook for classes 6 and 7 of the seven-year and secondary
schools] Algebra; uchebnik dlia 6 i 7 klassov semiletnei i srednei
shkoly. Moskva, Gos. uchebno - pedagog. izd-vo Ministerstva prosve-
shcheniia RSFSR, 1956. 158 p. Pt.1. (MLBA 9:5)
(Algebra)

BERZANSKAYA, Yelizabeta Savel'yevna; MAGIBIN, Fedor Fedorovich; ~~IMPESH-~~
~~KINA~~, N.I., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Collection of problems and exercises in algebra and trigonometry;
for classes 8-10 of the secondary school] Sbornik voprosov i upra-
zhnanii po algebre i trigonometrii; dlia VIII-X klassov srednei
shkoly. Izd. 2-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministertva
prosveshchenia RSFSR, 1955. 159 p. (MIRA 8:7)

(Algebra--Problems, exercises, etc.)

(Trigonometry--Problems, exercises, etc.)

KISEL'EV, Andrey Petrovich; LEPESHKINA, N.I., redaktor; MIRONTSEVA, M.I.,
tekhnicheskii redaktor

[Arithmetic; textbook for classes 6 and 7 of the seven-year and
secondary schools] Arifmetika. Uchebnik dlia 5-go i 6-go klassov
semiletnei i srednei shkoly. Pererabotka A.IA. Khinchina. Moskva,
Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR,
1955. 167 p. (MLRA 8:7)
(Arithmetic)

LARICHEV, Pavel Afanas'yevich; LEPESHKINA, N.I., redaktor; MAKHOVA, N.N.,
tekhnicheskiy redaktor

[Collection of algebra problems] Sbornik zadach po algebre. Izd.
6-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva pros-
veshchenia RSFSR. Vol.2. [For classes 8-10 of the secondary
school] Dlia 8-10 klassov srednei shkoly. 1955. 263 p. (MLRA 8:6)
(Algebra -- Problems, exercises, etc.)

EMERZANSKAYA, Yeliseveta Savel'yevna; LEPESHKINA, N.I., redakter; RYBIN, I.V.,
tekhnicheskiiy redakter.

[Methods of teaching arithmetic; manual for teachers] Metodika arifmetiki; posobie dlia uchitelei. Izd. 5-o, perer. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1955. 541 p.
(MLRA 9:5)

(Arithmetic--Study and teaching)

ЛЕПЕШКИНА, Н. И.
NEMYTOV, Petr Alekseyevich; LEPESHKINA, N.I., redaktor; DZHATIYEV, S.G.,
tekhnicheskii redaktor.

[Collection of geometry problems for proof in grades 6-7; a
manual for teachers] Sbornik zadach na dokazatel'stve po geometrii
dlia 6-7 klassov; posebie dlia uchitelei. Moskva, Gos.uchebno-
pedagog.izd-vo M-va pronv.RSFSR, 1956. 111 p. (MLRA 10:4)
(Geometry---Problems, Exercises, etc)

BUDANTSEV, Petr Alekseyevich; SHCHIPAKIN, Grigoriy Mikhaylovich; LEPESHKINA,
H.I., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Quadratic and irrational equations] Kvadratnye i irratsional'nye
uravnenia. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva
prosveshchenia RSFSR, 1956. 117 p. (MLRA 10:1)
(Equations, Quadratic)

LARICHEV, Pavel Afanas'yevich; LEPESHKINA, N.I., redaktor; SIDOROVA, L.A.,
redaktor; MAKHOVA, N.M., tekhnicheskij redaktor.

[Collection of problems in algebra; for class 8 of the secondary
school] Sbornik zadach po algebre; dlia 8 klassa srednei shkoly.
Izd. 7-e, perer. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva
prosveshchenia RSFSR, 1956. 127 p. (MIRA 9:6)
(Algebra--Problems, exercises, etc.)

LEPESHKINA, N.I.
DENISOVA, T.it'yana Nikolayevna; GEORGIYEVSKAYA, Valentina Stepanovna;
LEPESHKINA, N.I., redaktor; DZHATIYEV, S.G., tekhnicheskii redaktor.

[Lesson plans in algebra for the 7th grade; manual for teachers]
Plany urokov, po algebre v VII klasse; posobie dlia uchitelei.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSPSR, 1956. 149 p.
(MLRA 10:4)

(Algebra--Study and teaching)

GALAFUTNIK, Yeva Meiseyevna; ILYAKHINSKAYA, Klavdiya Nikolayevna; SHOR, Yakev Aleksandrovich; LEPESHKINA, N.I., redaktor; TSYPPPO, R.V., tekhnicheskij redaktor; RYBIN, I.V., tekhnicheskij redaktor.

[Arithmetic lesson plans for class 4] Plany urekov po arifmetike: dlia 4 klassa. Izd 2-oe, perer. Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1956. 150 p. (MIRA 9:6)
(Arithmetic--Study and teaching)

BALK, Mark Benevich; LEPESHKINA, N.I., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Organization and content of extracurricular studies in mathematics; a manual for teachers] Organizatsiia i sodержanie vneklassnykh zaniatii po matematike; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 246 p.
(Mathematics--Study and teaching) (MLBA 10:1)

LEPESHKINA, N.I

LARICHEV, Pavel Afanas'eyvich; LEPESHKINA, N.I., redaktor; MAKHOVA, N.N.,
tekhnicheskiiy redaktor

[A collection of problems in algebra] Sbornik zadach po algebre.
Moskva, Gos. uchebno-pedagog.izd-vo M-va prosv. RSFSR. Pt.2.
[For grades eight to ten of secondary schools] Dlia 8-10 klassov
srednei shkoly. Izd. 8-oe, perer. 1957. 222 p. (MLRA 10:7)
(Algebra--Problems, exercises, etc.)

ЛЕПЕШКИНА Н.И.

KULIKOV, Vsevolod Vasil'yevich; LEPESHKINA, N.I., red.; MAKHOVA, M.M.,
tekhn.red.

[How to make your own slide rule; a manual for teachers] Kak
izgotovit' samodel'nuiu logarifmicheskuiu lineiku; posobie dlia
uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.
RSFSR, 1958. 37 p. (MIRA 11:7)
(Slide rule)

BOGUSHEVSKIY, K.S., SIKORSKIY, K.P.,; LEPESHKINA, N.I., red.; KREYS, I.G.,
tekhn. red.

[Practical instructions for teaching algebra and geometry in the
8th grade] Metodicheskiy ukazaniya k prepodavaniiu algebry i
geometrii v VIII klasse. Moskva, Gos. uchebno-pedagog. izd-vo
M-va osv. RSFSR, 1958. 175 p. (MIRA 11:11)
(Algebra--Study and teaching)
(Geometry--Study and teaching)

BARYBIN, Konstantin Sergeevich; IMPESHKINA, N.I., red.; NATAPOV, M.I.,
tekh. red.

[Collection of problems in plane geometry; teacher's aid] Sbornik
zadach po geometrii (planimetriia) posobie dlia uchitelei. Moskva,
Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. 180 p.
(Geometry, Plane—Problems, exercises, etc.) (MIRA 11:10)

GLAGOLEV, N.S.; LEPESHKINA, N.I., red.; SMIRNOV, G.I., techn.red.; KREYS,
I.G., techn.red.

[Teaching mathematics in schools for working youth; a collection
of articles] Iz opyta prepodavaniia matematiki v shkolakh rabochei
molodeshi; sbornik statei. Moskva, Gos. uchebno-pedagog. izd-vo
M-va prosv. RSFSR, 1958. 191 p. (MIRA 12:2)
(Mathematics--Study and teaching)

LEPESHKINA, N.I.

LARICHEV, Pavel Afanas'yevich; LEPESHKINA, N.I., red.; MAKHOVA, N.N.,
tekhn.red.

[Handbook on problems in algebra; for classes 8 to 10 of secondary
schools] Sbornik zadach po algebre; dlia 8-10 klassov srednei
shkoly. Izd. 9-s. Moskva, Gos. uchebno-pedagog. izd-vo M-va
prosv. RSFSR. Pt.2. 1958. 222 p. (MIRA 11:4)
(Algebra--Problems, exercises, etc.)

LEPESHKINA, N.I.

REP'YEV, Vasil'y Vasil'yovich.; BRADIS, V.M., ratsenzent.; BYREZANSKAYA,
Ye.S., ratsenzent.; LEFESHKINA, N.I., red.; NATANOV, M.I., tekhn. nat.

[General methods of teaching mathematics; a manual for pedagogical
institutes] Obshchaya metodika prepodavaniya matematiki; posobie
dlya pedagogicheskikh institutov. Moskva, Gos. uchebno-pedagog.
izd-vo M-va prosv. RSFSR, 1958. 222 p. (MIRA 11:12)

(Mathematics--Study and teaching)

GERMANOVICH, Panteleymon Yul'yevich; LEPESHKINA, N.I., red.; DZHATIYEVA,
F.Kh., tekhn.red.

[Mathematical games] Matematicheskie viktoryny; iz opyta raboty.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959. 74 p.
(MIRA 12:12)

(Mathematics--Problems, exercises, etc.)

PANKRATOV, Aleksandr L'vovich, uchitel' matematiki; LEPESHKINA, N.I.,
red.; VOLCHEK, V.L., tekhn.red.; KREYS, I.G., tekhn.red.

[Mathematical tables for the formulation solution of problems]
Matematicheskie tablitsy dlia sostavleniia i resheniia zadach;
posobie dlia uchitelei srednei shkoly. Moskva, Gos.uchebno-pedagog.
isd-vo M-va prosv.RSFSR, 1959. 137 p. (MIRA 12:12)

1. Blinovskaya semiletnyaya shkola Sorokinskogo rayona Altayskogo
kraya (for Pankratov).
(Mathematics--Tables, etc.)

BARSUKOV, Aleksandr Nikolayevich; LEPESHKINA, M.I., red.; RYBIN,
I.V., tekhn.red.

[Algebra; a textbook for grades 6-7 of the seven-year and
secondary schools] Algebra; uchebnik dlia 6 i 7 klassov
semiletnei i srednei shkoly. Izd.4. Moskva, Gos.uchebno-
pedagog.izd-vo M-va prosv.RSFSR. Pt.1. 1959. 159 p.

(MIRA 12:9)

(Algebra--Textbooks)

BRADIS, Vladimir Modestovich; MINKOVSKIY, Vladimir L'vovich; KHARCHEVA, Avgusta Konstantinovna; LEPESHKINA, N.I., red.; KOVALENKO, V.L., tekhn.red.

[Errors in mathematical judgments] Oshibki v matematicheskikh rassuzhdeniyakh. Izd.2., perer. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv.RSFSR, 1959. 175 p. (MIRA 13:4)
(Mathematics--Study and teaching)

BEREZANSKAYA, Yelizaveta Savil'yevna; KOLMOGOROV, Nikolay Andreyevich;
MAQIBIN, Fedor Fedorovich; CHERKASOV, Kostislav Esmenovich;
LEPESHKINA, N.I., red.; GOLOVKO, B.N., tekhn.red.; KORNEYEVA,
V.I., tekhn.red.

[Collection of problems and exercises on geometry; textbook for
secondary school teachers] Sbornik zadach i voprosov po geo-
metrii; posobie dlia uchitelei srednei shkoly. Moskva, Gos.
uchabno-pedagog.izd-vo M-va prosv.RSSSR, 1959. 207 p.
(MIRA 13:10)

(Geometry--Problems, exercises, etc.)

BOGUSHEVSKIY, Konstantin Sergeyevich, uchitel'-metodist; SIKORSKIY,
Konstantin Petrovich, uchitel'-metodist; LEPESHKINA, N.I., red.;
MAKOVA, N.M., tekhn.red.

[Methodological instructions for teaching mathematics in the
ninth grade] Metodicheskie ukazania k prepodavaniiu matematiki
v IX klasse; posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.
izd-vo M-va prosv.RSFSR, 1959. 183 p. (MIRA 13:4)
(Mathematics--Study and teaching)

TRUDNEV, Viktor Petrovich; LEPESHKINA, N.I., red.; KOZLOVSKAYA, M.D.,
tekm. red.

[Count, grasp the meaning, and guess!] Schitai, smekai, otgady-
vai. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR,
1960. 70 p. (MIRA 15:1)

(Mathematical recreations)

GERMANOVICH, Panteleymon Yul'yevich; LEPESHKINA, N.I., red.; SMIRNOVA,
M.I., tekhn.red.

[Collection of mathematical problems to promote discernment;
manual for teachers] Sbornik zadach po matematike na soobrazitel'-
nost'; posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo
M-va prosv.RSFSR, 1960. 223 p. (MIRA 14:4)
(Mathematics--Problems, exercises, etc.)

SHKOL'NIK, Adol'f Grigor'yevich; LEPESHKINA, N.I., red.; KOVALENKO,
V.L., tekhn. red.

[Problem of the division of the circle; textbook for teachers]
Zadacha delenia kruga; posobie dlia uchitelei. Izd.3. Mo-
skva, Gos. uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1961. 72 p.
(MIRA 15:4)

(Circle)

(Equations, Binomial)

OBRAZ, Konstantin Ivanovich; EPPEL', Boris Sergeevich. Primal
uchastiye KOLDASHEV, A.M.; LEPESHKINA, N.I., red.; KORNEYEVA,
V.I., tekhn. red.

[The slide rule in secondary school; a textbook for teachers]
Logarifmicheskaia lineika v srednei shkole; posobie dlia
uchitelei. Moskva, Uchpedgiz, 1962. 126 p. (MIRA 16:1)
(Slide rule)

PESKOV, Timofey Andreyevich; LEPESHKINA, N.I., red.; TATURA, G.L.,
tekhn. red.

[Independent mathematical studies for grades 5-8] Samo-
stoiatel'naiia rabota uchashchikhsia po matematike v V-VIII
klassakh. Moskva, Uchpedgiz, 1962. 102 p. (MIRA 16:4)
(Mathematics—Study and teaching)

LEPESHKINA, V.A., ROSTIMESHIN, V.A.

Biochemical inversion of peat juice brought about by *Aspergillus niger*
[with summary in English]. *Mikrobiologiya* 27 no.4:497-500 J1-A2 '58

1. Filial Leningradskogo nauchno-issledovatel'skogo instituta torfyanoy
promyshlennosti.

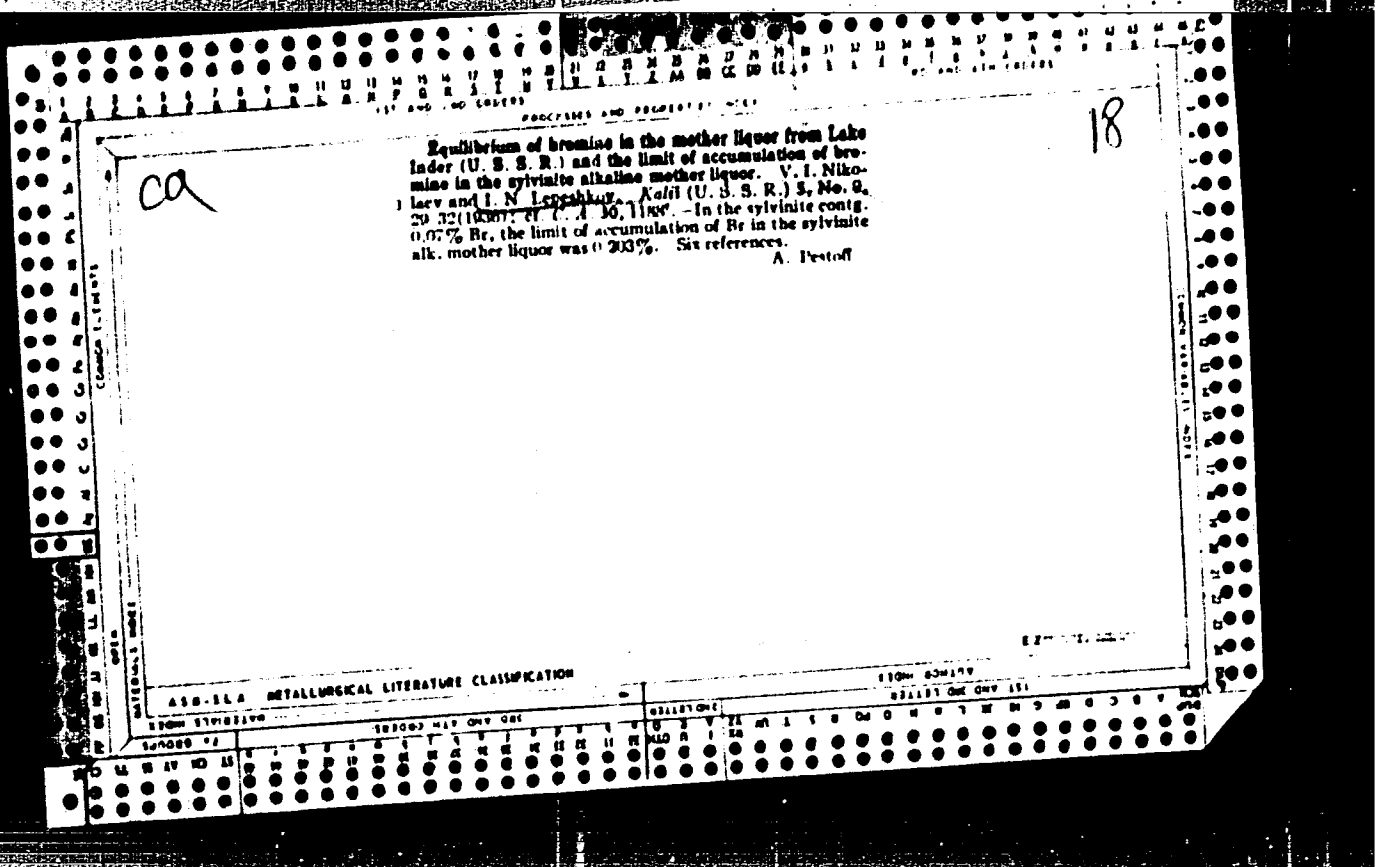
(*ASPERGILLUS NIGER*, metabolism
inversion of peat juice (Rus))

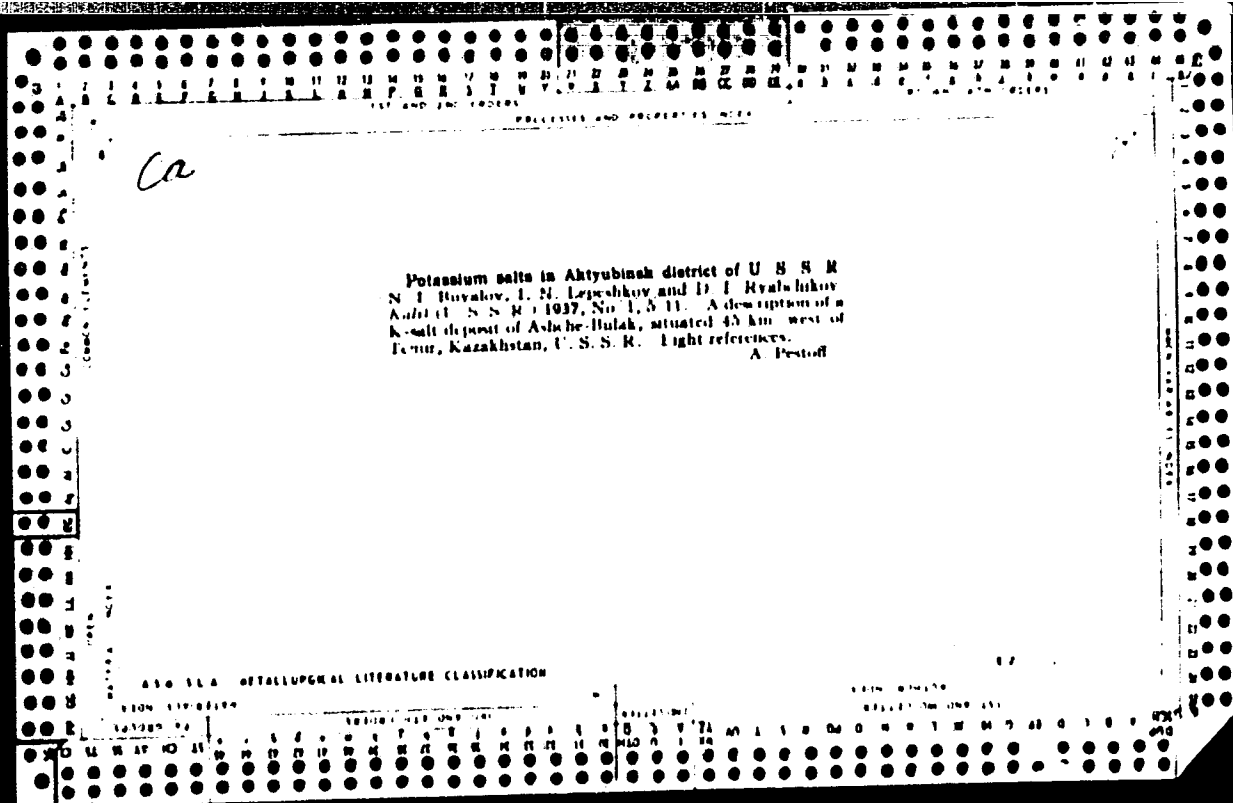
BOYKO, I.N.; LEPESHKINA, V.T.

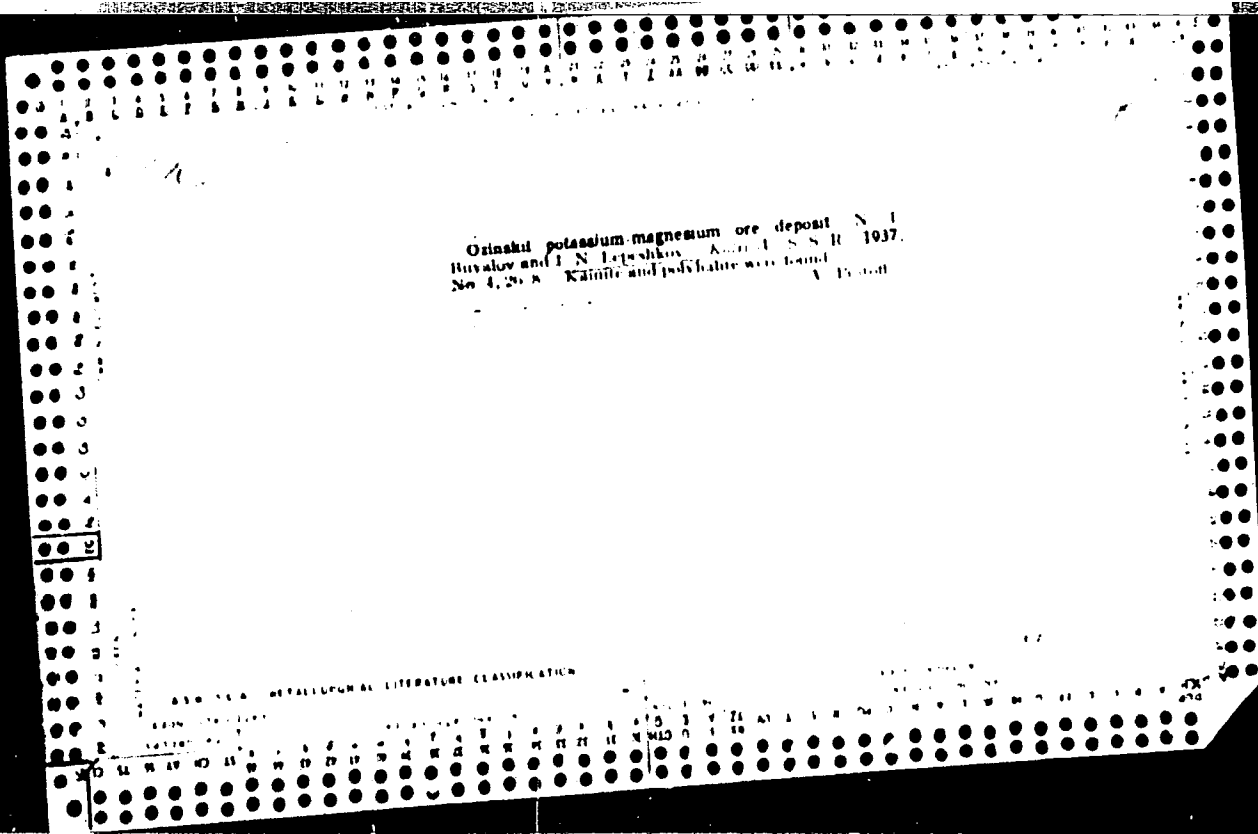
Important possibilities for increasing protein-rich feeds.
Zemledelie 25 no.2:38 F '63. (MIRA 16:5)

1. Kafedra zemledeliya Melitopol'skogo instituta mekhanizatsii
sel'skogo khozyaystva.

(Peas)







Potassium deposits of the southern basin of the Permian Sea and the salt lakes of Western Kazakhstan. S. V. Kornakov, I. N. Tepshikov, D. I. Buzalov and N. I. Buyalov. *Bull. Acad. Sci. USSR, Div. Geol. Geophys. Sci., Ser. Chem.* 1938, No. 1, 11-22 (in English). K deposits were discovered in the Western Kazakhstan territory and the adjoining regions: Saratov, Aktyubinsk and Orenburg. The deposits, should be related to the Permian age. Besides chlorides, the sulfates in the form of kamite, polyhalite, etc., were also found. The salt lakes of the north-eastern coast of the Caspian Sea are also of a great interest, since the presence of the admixtures of sulfates as strahlmannite, epsomite, glauberite, etc., was observed. The composition of about 142 samples from various deposits and depths are tabulated. Thirty-three references. A. A. Podgorny.

ASH SEA METALLURGICAL LITERATURE CLASSIFICATION

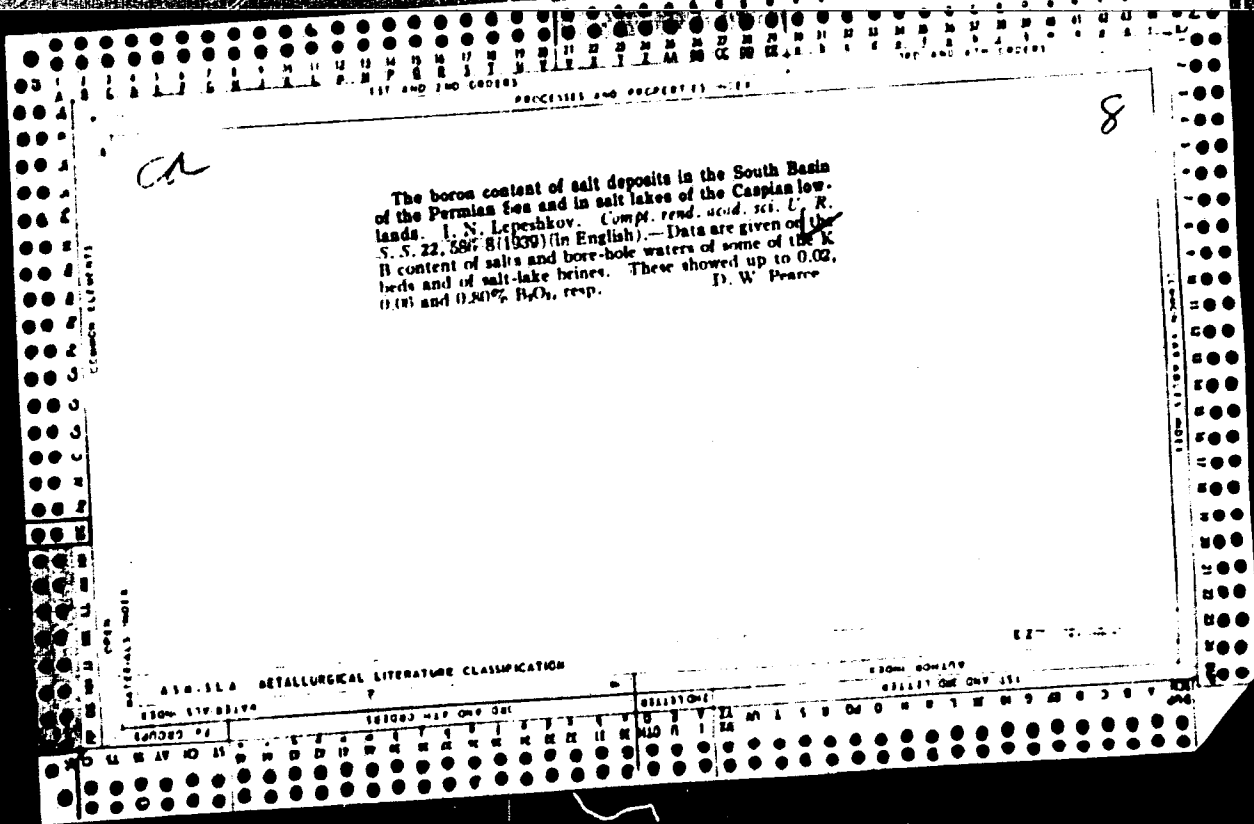
REGION: 1000000000

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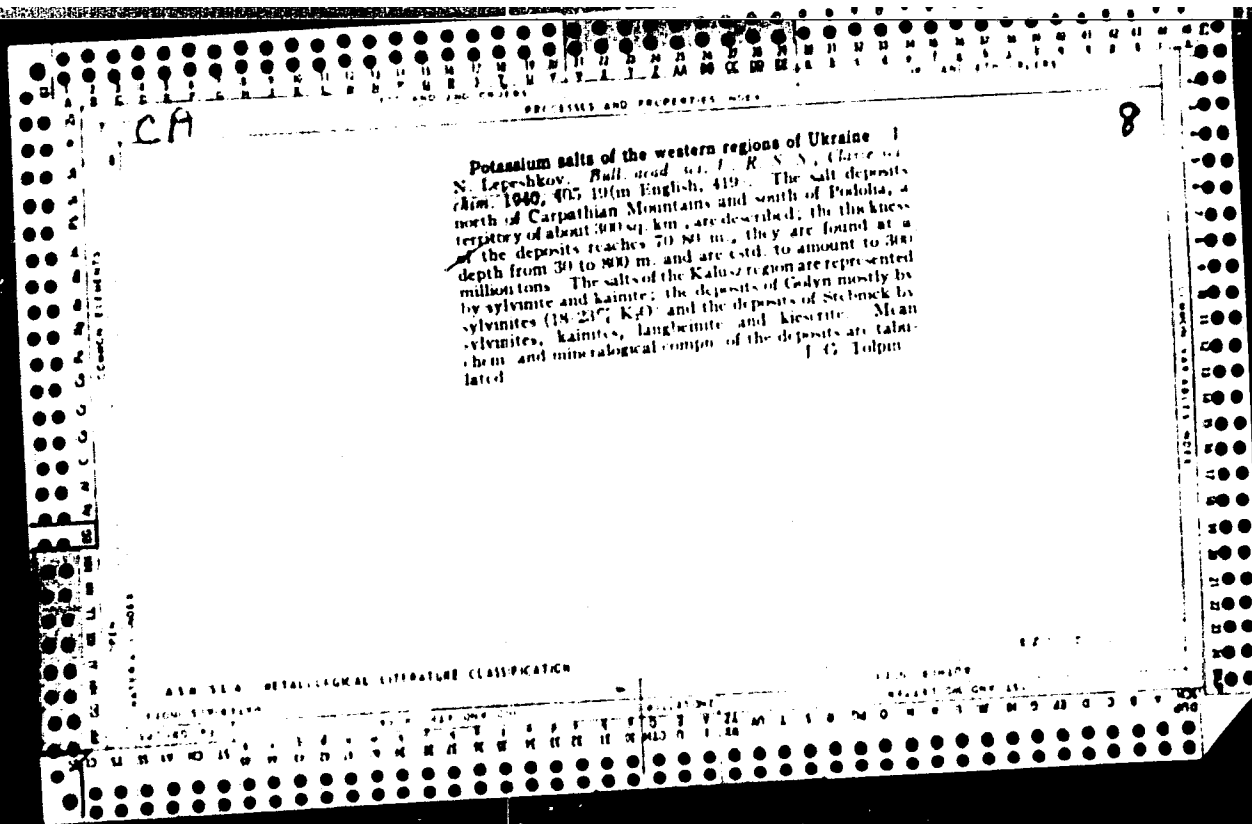
CLASS: 1000000000

CLASS: 1000000000



LEPESHKOV, I. N., Inst. Gen. & Inorg. Chem., Mbr. Acad. Sci., -1939-.

"Distrubution of Boron Between Liquid and Solid Phases of the Inder Lake
Brines During Isothermal Evaporation," Dokl. AN, 24, No 7, 1939.



A I - XI. * Geochemistry

Br. Abs.

Kieserite, bischofite, and other salts discovered in salt deposits in the southern part of the (site of) the Permian Sea. L.M. Lepeschkov and N. V. Zhdaleva (Compt. rend. Acad. Sci. U.R.S.S., 1940, 27, 973-982). -- Polyhalite, kieserite, glauberite, bischofite, and thenardite have been identified by differential thermography in samples taken from borings made in saline domes discovered at Osinky (Saratov region), Kairovka and Kranoyarka (Chkalov region), and Ishimbaevo (Zashkir). Chemical analyses of the first three of the minerals are given. R.S.H.

PROCEDURE AND RECOMMENDATIONS

2

The rate of decomposition of polyhalite by H₂O at 25, 50, and 100°. I. N. Lepshoy and N. V. Rodakova. *Sov. Acad. Sci. U.S.S.R., Chem. Sci. Ser.* 1944, 440-50. When polyhalite is treated with H₂O, it decomps. to K₂SO₄, CaSO₄·H₂O and this then forms gypsum. The rate of soln. of K increases with temp. and is much greater if the polyhalite is first heated at 800°. More rapid soln. is obtained with polyhalite to H₂O ratios of 1:25 than 1:1. NaCl, which occurs with natural polyhalite, can be removed by leaching, and the remaining polyhalite used directly as a fertilizer or decomps. by H₂O. H. M. L.

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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LEJESHKOV, I. N.

Potassium salt in the Volga-Imba and Carpathian regions. Moskva, Izd-vo Akademii
nauk SSSR, 1946. 150 p., maps. (49-55396)

CtY DA ICU InU

LEPESHKOV, I. N., N. S. Kurnakov Institute of General and Inorganic Chemistry,
Academy of Sciences of the U.S.R. -1946-

"A Contribution to the Problem of Formation of Saline Beds and of Crystallization of Salts in the Southern Zone of the Permian Sea," Iz. Ak. Nauk SSSR, Otdel Khim. Nauk, No 6, 1946.

LEPESHKOV, I. N.

USSR/Chemistry - Salts, Systems of
Chemistry - Stratification

Sept 47

"The Singly Related System $\text{AgNO}_3 + \text{TIJ} \rightarrow \text{AgJ} + \text{TINO}_3$," L. G. Berg, I. N. Lepeshkov, 12 pp
"Izv Sektora Fiz-Khim Analiza" Vol XV

Authors conducted experiments to determine stratification of above given equation in presence of chemical bonds between various components, particularly fields in which region of stratification expands. Discusses setting up experiments, methods, and evaluation of results. Failed to determine upper limit of stratification since salts began to decompose at 500° . Prof A. G. Bergman aided experiments.

PA 54T27

C. 10

7

Potassium salts of the Volga-Emba and Sub-Carpathian (regions) and their effectiveness as fertilizers. N. S. Kurnakov, I. N. Lepeshkov, and V. P. Kaulaurova. *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* 16, No. 3, 127-41 (1948). The chem. compn. of core samples taken from mineral deposits in the area once covered by the prehistoric Aral Sea is given. Some of the minerals were used in agricultural expts. and their effect on the yield is cited. M. Hosh

URAZOV, G.G.; LEPESHKOV, I.N.

Salt riches of Lake Dengiz-Kul. Trudy Inst. Khim. Akad. Nauk Uzbek S.S.R.,

Inst. Khim. Obshchaya i Neorg. Khim. No. 2, 89-93, '48. (CA 47 no. 18: 9072-53)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000929320002-4"

LEPESHKOV, I. I.

22340 Lepeshkov, I. I. Dmitriy Ivanovich Kuznetsov. (Khimik. 1904- 1943). Izvestiya sektora fiz.-khim. analiza (in-t obshchey i neorgan khimii im. kurnakova), T. XVII, 1949, S. 5-7, S Portr.- Bibliogr: ((Spisok Pechatnykh Rabot D. I. Kuznetsova)). 12 Nazv.

SO: LETOPIS' No. 30, 1949

LEPESHKOV, I.N.; BODALOVA, N.V.

Solubility isotherm of the aqueous reciprocal system $K_2Cl_2 + MgSO_4 \rightleftharpoons K_2SO_4 + MgCl_2$ at 35° . Izv. Sekt. fiz.-khim. anal. 17:338-344a '49.
(MLRA 7:6)

1. Institut obshchey i neorganicheskoy khimii [im. N.S.Kurnakova]
Akademii nauk SSSR.
(Sulfates) (Chlorides) (Solubility)

1. LEPESHKOV, I.N.
2. USSR (600)
4. Bergman, Andrei Georgievich
7. "Physical-chemical principles in the study and use of salt deposits of the chloride-sulfate type." A.G. Bergman, N.P. luzhnaya. Reviewed by I.N. LEPESHKOV Sov. kniga no.12, 1952

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

Systems (Chemistry)

Investigations by N. S. Kurnakov and his school in the field of natural salts and water-salt equilibria. Uspekhi, 21 No. 2, 1962.

Investigations by N. S. Kurnakov and his school in the field of natural salts and water-salt equilibria. Uspekhi, 21 No. 2, 1962.

Monthly List of Russian Accessions, Library of Congress, December 1962. Unclassified.

CA

8

Salt deposits of the right bank of the Volga. I. N. Lazebkov... *Doklady Akad. Nauk S.S.S.R.* 83, 451-2 (1952).—The Near-Caspian plain between the Ural and Volga rivers contains many salt cupolas that carry the salt layer some 60-80 m. below the surface. Borings in the Stalingrad area revealed salt deposits at depths greater than 1000 m. largely composed of NaCl with 0.2-0.3% K salts. A general trend to increase of the depths of the deposits from East to West is noted. The cupolas of the Saratov region show salt deposits at 210-80 m. depths. G. M. Kozlovoff

LEPESHKOV, I. N.

PP 234T11

USSR/Chemistry - Magnesium

1 Apr 52

"The Crystallization Order of Salts in the Evaporation of Water From the Aral Sea," I. N. Lepeshkov, N. V. Bodaleva, Inst of Gen and Inorg Chem imen' N. S. Kurnakov, Acad of Sci SSSR

"Dok Ak Nauk SSSR" Vol 83, No 4, pp 583, 584

Water from the Aral Sea was evapd and the order of crystn of the dissolved salts noted. The $MgSO_4$ content is 26.45% as compared with 6.44% for the ocean.

234T11

LOPESHIKOV, I. R., SVESHNIKOVA, V. N., and YAVDEYEVA, N. N. ✓

"Phase Composition and Solubility of Carbonate Rocks Characteristic for Certain Deposits in the Volga Region"

Izv. sektora fiz.-khim. analiza IONKh AN SSSR, 23, 1953, 300-306

The investigated rocks from the deposits "Mogutov Mountain" and "Apple Gulch" are represented by the authors as principally dolomitized limestones and calcareous dolomites. They determined the solubility in water of dolomitized limestones and dolomites at 25°C and pressure of one atmosphere of CO₂. (RZhGeol, No 6, 1955)

SO: Sum-No 787, 12 Jan 56

Inst. Gen. + Inorg. Chem. im. Kurukov, AS USSR

ЛЕПЕШКОВ, И.И.

POGODIN, S.A.; LEPESHKOV, I.N.

Academician Georgii Grigor'evich Urazov. *Izv.Sekt.fiz-khim.anal.*
no.25:7-16 '54. (MLRA 8:5)
(Urazov, Georgii Grigor'evich, 1884-)

LEPESHKOV, I.N.; SAVITSKIY, Ye.M.; FRADKINA, Kh.B.

Preparation of double salts under pressure. *Izv.Sekt.fiz.-khim.anal.*
no.25:144-149 '54. (MIRA 8:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
Akademii nauk SSSR.
(Salts, Double)

LEPESHKOV, I. N.
USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physico-chemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 351

Author: Berg, L. G., Lepeshkov, I. N., and Rassonskaya, I. S.

Institution: None

Title: Thermographic Analysis of Salts

Original Periodical: Tr. 1-go soveshchaniya po termografii. Kazan, 1953, Moscow-Leningrad, Izd-vo AN SSSR, 1955, 171-181

Abstract: The basic steps in the development of the thermographic study of salts during the last few years are described. A temperature table of the thermal effects recorded on the heating curves of some binary salts and crystal hydrates is given.

Card 1/1

ЛЕПЕШКОВ, И.Н.

A-1

USSR/Genral Problems - Methodology. Scientific Institutions
and Conferences. Instruction. Questions Concerning
Bibliography and Scientific Documentation.

Abs Jour : Referat Zhur - Khimiya, No 8, 1957, 25640

Author : I.N. Lepeshkov.

Inst :

Title : Outstanding Soviet Chemist.

Orig Pub : Khim. nauka. i prom-st', 1956, 1, No 5, 579-582

Abstract : To the 15th anniversary of the death of N.S. Kurmakov
(1860 - 1941).

Card 1/1

- 3 -

BODALEVA, N.V.; LEPESHKOV, I.N.

Study of solubility in the system: K_2SO_4 -- $MgSO_4$ -- $CaSO_4$
 H_2O at 55° . Zhur.neorg.khim. 1 no.5:995-1007 My⁴.56. (MLRA 9:10)

(Sulfates) (Solubility)

SHEVCHUK, V.G.; LEPESHKOV, I.N.

Solubility isotherm of the quaternary system: $\text{Na}_2\text{SO}_4 - \text{ZnSO}_4 -$
 $(\text{NH}_4)_2 - \text{H}_2\text{O}$ at 35° . Zhur.neorg.khim. 1 no.8:1888-1895 Ag '56.
(Sulfates) (MLBA 9:11)

LEPESHKOV, I.N.

~~Twenty eighth International Industrial Chemistry Congress in Madrid.~~
Zhur.neorg.khim.1 no.4:874-877 Ap '56. (MLRA 9:10)
(Madrid--Chemistry, Technical--Congresses)

Lepeshkov, I. N.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour : Referat. Zhurnal Khimii, No 6, 1957, 18955.

Author : I.N. Lepeshkov.

Inst : Academy of Sciences of USSR, Institute of General and Inorganic Chemistry. Scientific Institute of Fertilizers and Insecto-Fungicides.

Title : Study and Use of Natural Polyhalite Salt.

Orig Pub : Vestn. AN, SSSR, 1956, No 7, 83-85.

Abstract : In April 1956 N.S. Kurnakov Institute of General and Inorganic Chemistry of the Academy of Sciences of USSR together with the Scientific Institute of Fertilizers and Insecto-Fungicides of the Ministry of Chemical Industry arranged a conference concerning the questions connected with the study of natural deposits of polyhalite ($K_2SO_4 \cdot MgSO_4 \cdot 2CaSO_4 \cdot 2H_2O$), and its use as a new potassium-magnesium sulfate fertilizer and rough material for the production of various potassium and magnesium salts.

Card 1/1

-77-

KAVRZNEVA, Ye.D., doktor khimicheskikh nauk; ~~LEPESHKOV, I.N., doktor~~
khimicheskikh nauk.

At the 28th Intenational Congress on Industrial Chemistry in
Madrid. Vest.AN SSSR 26 no.5:64-68 My '56. (MLRA 9:8)
(Madrid--Chemistry, Technical--Congresses)

LEPESHKOV, I.N.

Research of N.N.Mfremov in the field of mineral salts. Izv.Sekt.
fiz.-khim.anal.27:23-27 '56. (MLRA 9:9)

1.Institut obshchey i neorganicheskey khimii imeni N.S.Kurnakova
AN SSSR.
(Salts) (Mfremov, Nikolai Nikolaevich, 1886-1947)

14-57-6-12319

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,
p 86 (USSR)

AUTHORS: Lepeshkov, I. N., Solov'yev, V. K., Smirnova, N. N.

TITLE: A Physical and Chemical Description of the Tuva
Saline Lakes (K fiziko-khimicheskoy kharakteristike
solyanykh ozer Tuvy)

PERIODICAL: Izv. Sektora fiz.-khim. analiza IONKh AN SSSR, 1956,
Vol 27, pp 380-392

ABSTRACT: The chemical composition of their salts and saline
deposits assigns most of these lakes to the 1st class
(according to N. S. Kurnakov's classification), with
a coefficient of exchange $K = \frac{Mg SO_4}{Mg Cl_2} > 0$. There
are also lakes and salt marshes containing solutions
and waters enriched by carbonates and bicarbonates.
These belong to the sulfate and soda group of lakes,
Khadyn, Shara-Kur, etc. In respect to their physical

Card 1/2

14-57-6-12319

A Physical and Chemical Description (Cont.)

and chemical nature, the latter resemble somewhat the lakes of the
Kulunda steppe, which are of soda type in the first stage of
formation.

Card 2/2

G. A. G.

LEPESHKOV, Ivan Nikonovich; FAYNBOYM, L.B., redaktor; GUBIN, M.I.,
tekhnicheskiy redaktor

[Natural salts and their significance for the national economy]
Prirodnye soli i ikh znachenie v narodnom khoziaistve. Moskva.,
Izd-vo "Znanie," 1957. 28 p. (Vsesoyuznoe obshchestvo po
rasprostraneniu politicheskikh i nauchnykh znani. Ser. 8, no.1)
(MLRA 10:4)

(Salts)

LEPESHKOV, I. N.

Georgii Ginzol'evich Urazov (1884-1957). I. N. Lepesh-
kov. *Zhur. Neorg. Khim.* 2, 5497-500 (1957).—Necrology
(with portrait) and review of Urazov's work: 181 refer-
ences. A. P. Kotloby

2 LEPESHKOV

AUTHORS: Lepeshkov, I. N., Novikova, L. V. 78-3-5-35/39

TITLE: On the Formation of Primary Polyhalite (K voprosu ob obrazovanii pervichnogo polihalita,

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol 3, Nr 5, pp 1261-1264 (USSR)

ABSTRACT: Experiments for the explanation of the process of formation of primary polyhalite were carried out at 35°C by the evaporation of synthetic solutions by adding aqueous calcium sulfate solutions. The chemical analysis of the obtained deposit showed that more than 95% of the deposit consists of purest polyhalite - $K_2SO_4 \cdot MgSO_4 \cdot 2CaSO_4 \cdot 2H_2O$. The microscopical investigations confirm this result. It results from the thermographic curve that a complete dehydration of polyhalite occurs at 320°C and that melting begins at 680°C. The formation of primary polyhalite was confirmed by the chemical, crystallo-optical and thermographical analysis.

Card 1/2

On the Formation of Primary Polyhalite

78-3-5-35/39

There are 4 figures, 3 tables and 9 references 5 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, AS USSR)

SUBMITTED: December 28, 1957

AVAILABLE: Library of Congress

1. Polyhalite--Preparation.
2. Polyhalite--Pretreatment
3. Polyhalite--Dehydration
4. Calcium sulfate--Applications

Card 2/2

AUTHORS: Lepeshkov, I. N., Novikova, L.V. SOV/78-3-10-27/35

TITLE: Physicochemical Investigation of the K_2SO_4 - $MgSO_4$ - $CaSO_4$ - H_2O System at 35° (Fiziko-khimicheskoye izucheniye sistemy K_2SO_4 - $MgSO_4$ - $CaSO_4$ - H_2O pri 35°)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, pp 2395-2407 (USSR)

ABSTRACT: An investigation was carried out at $35^\circ C$ of the solubility of the salts, the viscosity and specific weight of solutions of the system K_2SO_4 - $MgSO_4$ - $CaSO_4$ - H_2O , as well as of the ternary systems K_2SO_4 - $MgSO_4$ - H_2O , K_2SO_4 - $CaSO_4$ - H_2O and $CaSO_4$ - $MgSO_4$ - H_2O belonging to this system. In the investigation of the four-component system the following salts were ascertained: polygallite - $(K_2SO_4 \cdot MgSO_4 \cdot 2CaSO_4 \cdot 2H_2O)$ -, singenite - $(K_2SO_4 \cdot CaSO_4 \cdot H_2O)$ -, gypsum - $(CaSO_4 \cdot 2H_2O)$ -, $K_2SO_4 \cdot 5CaSO_4 \cdot H_2O$, schenite - $(K_2SO_4 \cdot MgSO_4 \cdot 6H_2O)$ -, epsomite - $MgSO_4 \cdot 7H_2O$) and arcanite (K_2SO_4). Polygallite is formed

Card 1/3

Physicochemical Investigation of the K_2SO_4 - $MgSO_4$ - $CaSO_4$ - H_2O , System at 35°

SOV/78-3-10-27/35

in the system analyzed at $35^\circ C$ only in the range of higher concentration of magnesium sulfate. The crystallization range of polygallite is extended considerably when temperature is increased. In the solid phase of the system polygallite is at $35^\circ C$ in paragenesis with gypsum, singenite, schenite and epsomite. In the potassium deposits of the Volga-Emb and the Carpathians, polygallite is in paragenesis with the following sulfates: anhydrite $-(CaSO_4)-$, gypsum, kieserite $-(MgSO_4 \cdot H_2O)-$, langbeinite $-(K_2SO_4 \cdot 2MgSO_4)-$ and glaserite $-(3K_2SO_4 \cdot Na_2SO_4)$. The results of the solubility of the ternary systems correspond to those obtained from the investigations of viscosity and specific weight of the systems. The results of the physicochemical analysis of the four-component system K_2SO_4 - $MgSO_4$ - $CaSO_4$ - H_2O are of importance for the explanation of the formation of natural polygallite. The formation of polygallite in nature, which is caused by evaporation of sea water, takes place probably at relatively low temperatures ($10-35^\circ C$).

Card 2/3

Physicochemical Investigation of the K_2SO_4 - $MgSO_4$
 $CaSO_4 \cdot H_2O$ System at 35°

SOV/78-3-10-27/35

There are 16 figures, 4 tables, and 27 references,
14 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im.N.S.Kurnakova
Akademii nauk SSSR (Institute of General and Inorganic
Chemistry imeni N.S.Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: September 6, 1957

Card 3/3

AUTHORS:

Andronova, N. P., Lepeshkov, I. N.

SO7/78-3-9-25/38

TITLE:

The Isothermal Lines of the Solubility of the System
 $K_2SO_4-Na_2SO_4-MgSO_4-H_2O$ at $75^\circ C$ (Izoterma rastvorivosti sistemy
 $K_2SO_4-Na_2SO_4-MgSO_4-H_2O$ pri 75°)

PERIODICAL:

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ABSTRACT:

The solubility of the quaternary system $K_2SO_4-Na_2SO_4-MgSO_4-H_2O$ and of the ternary system $K_2SO_4-Na_2SO_4-H_2O$ was investigated at $75^\circ C$. In the investigations of the ternary system $K_2SO_4-Na_2SO_4-H_2O$ a solid phase of varying composition of the glaserite type was found which is to a great extent enriched with potassium sulfate. The maximum ratio of $K_2SO_4 : Na_2SO_4$ is in this compound 3,75 : 1. The solubility diagram of the aqueous quaternary system of potassium sulfate - sodium sulfate - magnesium sulfate is characterized by the occurrence of 3 crystallization ranges of the following salts:

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