

LISITSKIY, I.V.

Welding the electric motor shaft of a pilger mill. Proizv.
opyt v obl. svar. no.1:110-111 '56. (MLRA 9:10)

(Shafts and shafting--Welding)

LISITSKI~~Y~~, K. Z.

Industrial oil reclamation. Moskva Gostoptekhnizdat, 1943. 15 p. (51-49369)

LISITSKIY, K. Z.

Instructions to mechanics and the heads of the workshops on the salvage of used lubrication oils. Moskva Gostoptekhnizdat, 1944. 15 p.

EMINOV, Ye.A.; OSHER, E.N.; PATSUKOV, I.P.; CHEKAVTSEV, N.A.; MAZYRIN, I.V.;
FUKS, G.I.; VLADZIYEVSKIY, A.P.; PATSUKOV, I.P.; AVDEYEV, A.V.;
LOPOYAN, G.S.; PETROV, G.G.; KOZOREZOVA, A.A.; LISITSKIY, K.Z.;
YAKOBI, M.A.; BELYANCHIKOV, G.P.; IVANOV, V.S.; VORONOV, N.M.; RU-
MYANTSEV, V.A.; ZILLER, G.K.; BEREZHINAYA, V.D.; LEVINA, Ye.S.;
vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Manual on the use and consumption standards of lubricants] Spra-
vochnik po primeneniyu i normam raskhoda smazochnykh materialov.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1960. 703 p. (MIRA 13:4)

(Lubrication and lubricants)

EMINOV, Ye.A.; SINITSYN, V.V.; OSHER, R.N.; CHEKAVTSEV, N.A.; PATSUKOV,
I.P.; USOV, A.A.; FUKS, G.I.; VLADZIYEVSKIY, A.P.; AVDEYEV, A.V.;
ARZUMANOV, Sh.P.; PETROV, G.G.; KOZOREZOVA, A.A.; LISITSKIY,
K.Z.[deceased]; YAKOBI, M.A.; BELYANCHIKOV, G.P.; IVANOV, V.S.;
VORONOV, N.M.; RUMYANTSEV, V.A.; TROFIMUK, V.A.; BERSHTADT,
Ya.A.; ZILLER, G.K.; BEREZHAYAYA, V.D.; KLEYMENOVA, K.F., ved.red.;
TITSKAYA, B.F., ved. red.

[Manual on the use and norms for the expenditure of lubricants]
Spravochnik po primeneniiu i normam raskhoda smazochnykh mete-
rialov. 2. perer. i dop. izd. Moskva, Khimia, 1964. 855 p.
(MIRA 18:3)

LISITSKIY, N.

85-58-4-4/36

AUTHOR: Lisitskiy, N. Leader of the Leningrad Model Airplane Building Team

TITLE: Leningrad-Helsinki (Leningrad-Khel'sinki); Success of Soviet Model Airplane Builders (Uspekh sovetskikh aviamodelistov)

PERIODICAL: Kryn'ya rodnay, 1958, Nr 4, pp 2-3 (USSR)

ABSTRACT: Leningrad and Helsinki aircraft modelers recently competed in the Finnish capital. The Leningrad team made a good showing and made up for its loss sustained the year before to the Helsinki team. There are 2 tables and 4 photographs showing Leningrad team members - V. Abramov, V. Simonov, N. Kolegov, and N. Yenin.

AVAILABLE: Library of Congress

1. Airplanes-Model test results

Card 1/1

SOV/85-58-12-24/38

AUTHOR: Lisitskiy, N., Leader of the USSR Model Aircraft Builders Team

TITLE: Victory of Soviet Sportsmen (Pobeda Sovetskikh sportsmenov)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 12, p 20 (USSR)

ABSTRACT: The author reports on the V European Glider Model Championship (piston engines) held in Bucharest, at Klinezen airfield. Contestants included teams from Poland, Romania, Yugoslavia, and the Soviet Union. The victorious USSR team consisted of 4 young model aircraft builders. There is 1 photograph of the Soviet team.

Card 1/1

REBRIN, S.P.; LISITSKIY, P.A., red.; KOLOMEYER, V.Z., tekhn.red.

[Parquet planks, their design and use; practices of foreign enterprises] Parketnye doski, ikh konstruksii i primeneniye; iz opyta zarubezhnykh predpriatii. Moskva, TSentr.biuro tekhn.informatsii Glavstandartdoma, 1959. 23 p. (MIRA 13:1)
(Parquet floors)

LISITSKIY, RUVIM MARKOVICH

LEVINSHTEYN, Izrail' Ionasovich; ~~LISITSKIY, Ruvim Markovich~~; LEVIN, G.Ya.,
redaktor; SACHEVA, A.I., tekhnicheskiy redaktor

[Storing drugs; manual for pharmacies and pharmaceutical warehouses]

Khraneniye medikamentov; posobie dlia aptek i aptechnykh skladov.

Izd. 2-e, perer. i dop. Moskva, Gos. izd-vo meditsinskoi lit-ry,

1954. 209 p.

(MIRA 8:3)

(Drugs--Storage)

LISITSKIY, Ruvim Markovich

[Medical supplies; instruments, apparatus, articles for care of the sick, dressing materials, eyeglasses, natural mineral waters]; Meditsinskoe tovarovedenie; instrumenty, apparatura, predmety ukhoda za bol'nym, perevyazochnye materialy, ochkovaia optika, natural'nye mineral'nye vody. Izd. 4-oe, dop. i ispr. Moskva, Medgiz, 1956.
199 p. (MLRA 9:11)

(MEDICAL SUPPLIES)

PALIN, A.I.; LISITSKIY, R.M.; KHOLSHEYN, R.Ya.; KLIMOVICH, T.P.,
otv. red.; SEMILETOVA, A.P., osv. red.; GERSHEYN, G.Ye.,
red.

[Handbook on prepared drugs] Spravochnik po gotovym lekar-
stvennym formam. Sost. A.I.Palin, R.M.Lisitskii, R.IA.
Kholstein. Otv. red. T.P.Klimovich, A.P.Semiletova. Riga,
Glav. aptechnoe upr. M-va zdravookhraneniia Latviiskoi SSR,
1962. 390 p. (MIRA 16:11)
(Pharmacy--Handbooks, manuals, etc.)

FIL'KIN, A.M.; LISTSKIY, R.M.

Review of P.E. Rozentsveig's handbook "Manual of drug prescriptions". Aptech. délo 12 no.3:86-87 My-Je'63 (MIRA 17:2)

LISITSKIY, V., provizor

Home pharmacy. Sov.shakht. 11 no.11:45-46 N '62. (MIRA 15:11)
(Coal miners--Diseases and hygiene)

LISITSKIY, V. G.

AID P - 5582

Subject : USSR/Aeronautics - bibliography
Card 1/1 Pub. 135 - 21/27
Author : Lisitskiy, V. G., Eng.-Major
Title : Photogrammetry
Periodical : Vest. vozd. flota, 6, 84, Je 1956
Abstract : Critical review of the book "Photogrammetry" (Aero-fotogrammetriya), by N. K. Karpovich, published by the Defense Ministry of USSR, Moskva, 1955, 180 pages.
Institution : None
Submitted : No date

L 4519-66 EWT(1)/EWP(n)/EWT(m)/EPF(c)/EWA(d)/EWP(j)/T/FCS(k)/EWA(c)/EWA(1) RPL

ACC NR: AP5026067 WW/JW/WI/RM SOURCE CODE: UR/0405/65/000/002/0062/0068

AUTHOR: Lisitskiy, V. I. (Moscow); Merzhanov, A. G. (Moscow)

ORG: none

TITLE: Ignition of condensed substances by the flow of hot gases

SOURCE: Nauchno-tekhnicheskiye problemy gorenija i vzryva, no. 2, 1965, 62-68

TOPIC TAGS: explosive ignition, ignition theory, ignition delay/pyroxylin no 1

ABSTRACT: Previous studies of the ignition of condensed explosives by the flow of hot gases have not accounted for the heat exchange conditions. Therefore, a new apparatus was designed in which the heat exchange between the explosive and the gas is measured under controlled conditions. Ignition of cylindrical charges of pyroxylin No. 1, 0.06-1.8 cm in diameter d and with a density $\rho = 1.5 \text{ g/cm}^3$, by the flow of hot gases (air, nitrogen, argon, or carbon dioxide) was studied at the gas temperature $T_0 = 250-370\text{C}$, gas velocity $u = 90-270 \text{ cm/sec}$, $Re = 150-550$, and an ignition delay time $t_3 = 15-95 \text{ sec}$. The ignition delay was determined as a function of T_0 , the temperature of the pyroxylin charge T_H , and the heat transfer coefficient α . Mathematical treatment of the experimental results within the similitude theory yielded

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UDC: 536.46

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ACC NR: AP5026067

the following expression for determining the dimensionless ignition delay time:

$$\tau_0 = 0,016\theta_0^2 H^{-m},$$

where,

$$\theta_0 = \frac{E}{RT_0} (T_0 - T_u); \quad H = a \left[\frac{RT_0^2}{E} \frac{1}{Qh_0\lambda} \exp(E/RT_0) \right]^{1/2}; \quad \tau = \frac{C_p}{Q} \frac{RT_0^2}{E}.$$

Here, Q is the thermal effect; C, specific heat; E, activation energy; and m = 1.64. A graphical presentation of the experimental results in dimensionless coordinates shows that only under the following conditions $\tau_0(\infty) \ll \tau_0(H) \ll \tau_0(0)$, does the above equation correctly describe the ignition of pyroxylin by hot gases and is probably applicable for other condensed systems in which the ignition is not accompanied by phase transitions. Orig. art. has: 5 figures and 4 formulas. [PS]

SUB CODE: WAF, Me/SUBN DATE: 18Jan65/ ORIG REF: 003/ OTH REF: 005/ ATD PRESS: 4/30

OC
Card 2/2

LISITSKIY, Ye.F., professor; KROK, G.S., assistant.

~~Embryonic development of chicks in an indoor-type incubator~~
Embryonic development of chicks in an indoor-type incubator
("Ukrigant"). Sbor.trud.Khar'.vet.inst. 20:29-36 '49.
(Embryology--Birds) (Incubation) (Poultry) (MLRA 9:11)

LISITSKIY, Ya. F. professor, doktor.

Effect of environment on the embryonal development of chickens
under various incubation conditions. Sbor.trud.Khar'.vet.inst.
21:27-42 '52. (MLRA 9:12)

1. Kafedra gistologii i embriologii Khar'kovskogo veterinarnogo
instituta.

(Embryology--Birds)

LISITSKIY, Ye.F., professor, doktor veterinarnykh nauk.

~~Regeneration~~ processes in the bone and cartilage tissues in bone
transplantations and fractures. Sbor. trud. Khar'. vet. inst. 22:
87-98 '54. (MLRA 9:12)

1. Kafedra gistologii Khar'kovskogo veterinarnogo instituta.
(Bone grafting) (Regeneration (Biology))
(Cartilage)

LISITSIN, A.

Improving trade in the city. Sov.torg.34 no.3:43 Nr '61.
(MIRA 14:2)

1. Zaveduyushchiy gortorgotdelom, g.Belogorsk.
(Belogorsk--Retail trade)

SHADRICHEV, Viktorin Arsen'yevich; LISITSYN, A.A., inzhener, retsenzent;
FETISOV, F.I., inzhener, redaktor; UDALOV, A.N., inzhener,
redaktor; POL'SKAYA, R.G., tekhnicheskii redaktor.

[Repair of automobiles] Remont avtomobilei. Izd.2-e perer. 1 dop.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1955. 644 p.
(Automobiles--Repairing) (MLBA 8:10)

LISITSYN, A.A.

USSR

✓ 565. NEW COMBINATION OF EQUIPMENT FOR COMPLETE MECHANIZATION IN
OPEN-PIT MINING. Lisitsyn, A.A., Parozonov, V.L., and Spillberg, L.L.
Koblenz, Transl. Masch. (Mach. automatic M), 1956, (8), 5-10;
ibstr. in Ugol. (Coal), str. 1955, 48). Mining trials are reported on
in arrangement; in which supports, roof control and movement of the face
conveyor are mechanized in addition to winning.

2 ✓

LISITSYN, A.A., inzhener; PARAMONOV, V.I., inzhener.

Experience in introducing MPK mechanized moveable mine supports.
Mekh. trud. rab. 10 no.8:11-15 Ag '56. (MLRA 9:10)

(Mine timbering)

LISITSYN, A. I.

ALEKSANDROV, B.F., inzh.; BALYKOV, V.M., inzh.; BARANOVSKIY, F.I., inzh.;
 BOGUTSKIY, H.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent;
 VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk;
 GRIGOR'YEV, L.Ya., inzh.; GRIDIN, A.D., inzh.; ZARMAN, L.N., inzh.;
 KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk,
 dotsent; KUSNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV,
 R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A.,
 inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; WASHKEVICH,
 K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK,
 V.B., kand.tekhn.nauk; MIKHEYEV, Yu.A., inzh.; PARAMONOV, V.I.,
 inzh.; ROMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.;
 SAMOYLYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-
 REV, A.Ye., kand.tekhn.nauk; SNAGIN, V.T., inzh.; SNAGOVSKIY,
 Ye.S., kand.tekhn.nauk; FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.;
 FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-
 VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHEPKOVNIKOV, V.N.,
 inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.F., kand.tekhn.nauk;
 SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk;
 SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV,
 A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I.,
 zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.;
 MOROZOV, R.N., red.; OZERNOY, M.I., red.; SPIVAKOVSKIY, A.O.,
 red.; FAYBISOVICH, I.L., red.; ARKHANGEL'SKIY, A.S., inzh., red.;
 (Continued on next card)

ALEKSANDROV, B.F.---(continued) Card 2.

BELIAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GONCHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, M.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLER, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

LISITSYN, A.A.; KLIMCHENKO, I.Z.; PETROV, P.A.; SIMANOVSKIY, V.L.

Dynamics of the number of susliks in areas under rodent control
in the plague focus of the northwestern Caspian Sea region.

Sbor. nauch. rab. Elist. protivochum. sta. no. 1:155-165 '59.

(MIRA 13:10)

(CASPIAN SEA REGION—SUSLIKS) (RODENT CONTROL)
(PLAGUE)

Lisitsyn, A. A.

KLIMCHENKO, I. Z.; LISITSYN, A. A.; MOVCHAN, V. G.

Dynamics of the suslik population in previously disinfested areas.
Trudy probl. i tem. sov. no. 5:39-44 '55. (MIRA 8:12)

1. Rostovskiy protivochumnyy institut.
(Susliks)

LISITSYN, A.A.

Problem of Predicting the Number of Mouselike Rodents

Sb. Nauch. Rabot Privolzhskoy Protivoepidem. Stantsii, Astrakhan', No 1,
1953, pp 142-151

In his studies the author took into consideration all the factors controlling the numbers of small rodents. A quantitative index is used to develop a long term prognosis which is reduced to a formula. (RZhBiol, No 2, 1955)

SO: Sum. No. 639, 2 Sep 55

LISITSYN, A.A.; PAVLOVSKIY, Ye.N.

Reviews, criticism and bibliography. Zhur. mikrobiol. epid.
i immun. 40 no.5:157-161 My '63. (MIRA 17:6)

MIRONOV, N.P., prof.; KARPUZIDI, K.S.; KLIMENKO, I.Z.; KOLESNIKOV,
I.M.; LISITSYN, A.A.; NEL'ZINA, Ye.N.; SHIRANOVICH, P.I.;
SHIRYAYEV, D.F.; YAROVLEV, M.G.; NIKOLAYEV, I.M., red.

[Sources and carriers of plague and tularemia] Istochniki i
perenoschiki chumy i tuliaremi. Moskva, Meditsina, 1965.
194 p. (MIRA 18:4)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy protivo-
chumnyy institut (for all except Nikolayev).

LISITSYN, A.D.; ABRAMOV, V.I.

Protection screens for grinding machines. Mashinostroitel'
no.4:26 Ap'64 (MIRA 1787)

LISITSYN, A.F.

Determination of the distance of a shot according to the pellet
density in the lesion. Sud.-med.ekspert 6.no.2:8-12 Ap-Je '63.
(MIRA 16:7)

(GUNSHOT WOUNDS)

A.I. Lisitsyn

18(5)

SO7/132-59-4-1/17

AUTHORS: Vselevich, L.V., Lisitsyn, A.I., Iuchir, N.S.
and Pyatnov, V.I.

TITLE: The Ancient Zircon-Ilmenite Placer in the Meso-
Cenozoic Deposits of West Siberia.

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 4, pp 1-4
(USSR)

ABSTRACT: The Tuganskoye zircon-ilmenite placer was dis-
covered in 1956-1957. It is located on the water
divide of the rivers Tom' and Yaya in the region
of northern spurs of the Kuznetskiy Alatau moun-
tain range. The Paleozoic foundation of metamor-
phic rocks of the region is covered by an erosion
crust, 15 to 70 m thick, formed under continental
conditions during a period from the Middle-Carboni-
ferous up to Upper-Cretaceous and even Paleogene
times. This crust covers both slopes of the water
divide of the rivers Tom' and Yaya. Zircon and

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807/132-59-4-1/17

The Ancient Zircon-Ilmenite Placer in the Meso-Cenozoic Deposits of West Siberia.

ilmenite were found in this stratum formed by the metamorphic rocks and the erosion crust. In Paleogene time, this weathered crust was again eroded by the transgressing sea, the clay fraction was washed away in the sea and the coarse-grained fraction was deposited in the coastal area. These deposits at present are divided into three suites, by their granulometric composition, the Simonovskaya, the Mariinskaya and Tuganskaya suites. The rare elements are found mainly in the Tuganskaya suite composed of variously grained sands. Conditional selective concentrates can be obtained from these sands. The Tuganskaya deposit can be exploited by opencast mining.

Card 2/3

SOV/132-59-4-1/17

The Ancient Zircon-Ilmenite Placer in the Meso-Cenozoic Deposits of West Siberia.

ASSOCIATION: Ministerstvo geologii i okhrany nedr SSSR. (The Ministry of Geology and Conservation of Mineral Resources of the USSR. (Yeselevich, Lisitsyn, Giredmet (Pyatnov)

Card 3/3

LISITSYN, A.I.; TALANTSEV, A.S.

New data on the metallogeny of the western slope of the Urals.
Sov. geol. 8 no.2:126-130 F '65.

(MIRA 18:12)

1. Ural'skoye geologicheskoye upravleniye.

LISITSYN, Anatoliy Ivanovich; ZVORYKINA, L.N., red.izd-va; BOLDYREVA, Z.A.,
tekh. red.

[Sinking vertical shafts; collection of examples and problems] Pro-
khodka vertikal'nykh stvolov shakht; sbornik primerov i zadach. Mo-
skva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 85 p.
(MIRA 14:11)

(Shaft sinking)

LISITSYN, A.I.

Evaluation of beryllium-bearing granitic pegmatites. Razved. 1
okh. nadrž 27 no.8:14-17 Ag '61. (MIRA 16:7)

1. Ural'skoye geologicheskoye upravleniye.
(Beryllium) (Pegmatites)

LISITSYN, A.I.

"Geology of rare element deposits." Reviewed by A.I.Lisitsyn. Sov.-
geol. 5 no.5:154-156 My '62. (MIRA 15:7)

1. Ural'skogoye geologicheskoye upravleniye.
(Metals, Rare and minor)

KOGANER, V.; LISITSYN, A.; SVIDLER, B.

Electronic control of fuel injections. Za rul. 20
no.12:22-23 D '62. (MIRA 15:12)

1. Tsentral'nyy nauchno-issledovatel'skiy institut
toplivnoy apparatury, Leningrad.
(Automobiles—Fuel systems)
(Electronic control)

44977

S/170/63/006/001/009/015
B187/B102

247800

AUTHORS: Obukhov, V. I., Lisitsyn, A. I.

TITLE: ~~Spark temperature at the breakdown of solid dielectrics~~

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 1, 1963, 66-72

TEXT: Approximate calculations are given for the temperature in the final stage of the breakdown of NaCl single crystals, in which the electron temperature and the ion temperature have balanced out, as well as for various other characteristic values at the final stage. It is assumed that the broken down substance is in the state of a neutrally charged plasma. The calculation is based on the energy balance for the process of channel formation. The results show that in the state of discharge the temperature first rises. After it has reached its maximum value it decreases again because the energy supply lags behind the rate at which the channel widens. The maximum temperature increases with the average field strength E and as the inductance of the discharge circuit decreases. This process continues until the rate of radiant heat production equals the rate of energy release in the discharge.

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S/170/63/006/001/009/015

B187/B102

Spark temperature at the

channel and limits further increase of temperature. $T_i = T_e(1 - e^{-At})$, A $-0.3 \cdot 10^{-7} \frac{m_e}{M} x \psi \sqrt{\frac{3T_e k}{m_e}}$ where t is the time, $M = (M_{Na} + M_{Cl})/2$, x is thedegree of neutralization of the chlorine ions in %, ψ is the number of molecules forming, i.e. the effective compensation of T_e and T_i takesplace at $T_e = 10000^\circ K$ for $x = 0.1\%$ after 10^{-9} sec and for $x = 0.01\%$ after 10^{-8} sec; in the initial phase $T_e > T_i$. Towards the end of the first 10^{-9} sec, $I = 2a$, $U = 63$ Mv and the channel radius $r = 1\mu$, theelectron velocity in the field direction is $8 \cdot 10^5$ cm/sec, $x = 0.01\%$ and $T = 3000^\circ K$. The pressure in the channel can be estimated by $p = \psi N(1+x)kT$.The functions $x(t)$, $p(t)$, $T(t)$, and the characteristic values of the energy balance are tabulated. There are 2 figures and 1 table.ASSOCIATION: Politekhnikheskiy institut imeni S.M. Kirova, g. Tomsk
(Polytechnic Institute imeni S.M. Kirov, Tomsk)

SUBMITTED: September 25, 1962

Card 2/2

E 25068-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pab-10/Pt-10 IJP(c)

ACCESSION NR: AR4045744.

S/0275/64/000/007/A051/A051 32-

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodny* y tom, Abs. 7A297 B.

AUTHOR: Lisitsy*n, A. I.

TITLE: Magnetic and accelerating systems of a 10-Mev waveguide cyclic accelerator 19

CITED SOURCE: Sb. Elektron. uskoriteli. M. Vyssh. shkola, 1964, 147-152

TOPIC TAGS: accelerator, waveguide cyclic accelerator

TRANSLATION: Data is submitted on the magnetic system of a waveguide cyclic accelerator, in which E-30 steel is used and which is supplied with 50-cps power. Results of a calculation of fundamental parameters of the magnetic system are tabulated; the table shows that there are optimum parameters which cause collapse of betatron acceleration at $E\beta = 3$ Mev. Technical characteristics of an accelerating system consisting of a vacuum envelope encompassing a resonator chamber are given; requirements for this system are considered. A Kurst gun operating at an injection voltage of 25--30 kv is used as an injector.

SUB CODE: NP, EC

ENCL: 00

Card 1/1

L 57823-65 EPA(w)-2/EWA(m)/EWA(m)-2 Pt.-7/Pab-10 IJP(e)

ACCESSION NR: AR4049414

S/0275/64/000/009/A059/A060
621.384.6

39
B

SOURCE: Ref. zh. Elektronika i yeye primeneniya. Svodnyy tom, Abs. 9A401

AUTHOR: Lisitsyn, A. I.; Olishanskiy, A. P.

TITLE: Calculation of the input resistance of the accelerator chamber of waveguide-cyclic-accelerator model

CITED SOURCE: Sb. Elektron. uskoriteli. M., Vyssh. shkola, 1964, 152-160

TOPIC TAGS: accelerator, accelerator chamber, waveguide cyclic accelerator

TRANSLATION: An approximate calculation of the input resistance of the accelerator n-f chamber is presented; the calculation permits to consider the match between the chamber and the transmitting waveguide and also to obtain the parameters of the matching waveguide transformer. The characteristic resistance of the transmitting channel is assumed to be 525 ohms; the slot position in the resonator center is determined. A quarter-wave matching transformer with a reactive probe that compensates the reactive component of the resonance-chamber impedance is intended for final matching. Estimated results are in good agreement with the experimental data.

Card 1/1 SUB CODES: NP

ENCL: 00

ACCESSION NR: AP4039734

S/0141/64/007/002/0338/0342

AUTHOR: Vorob'yev, A. A.; Bezmaternykh, L. N.; Didenko, A. N.; Lisitsyn, A. I.; Ol'shanskiy, A. P.

TITLE: Laminated dielectric coatings with large reflection coefficients

SOURCE: IVUZ. Radiofizika, v. 7, no. 2, 1964, 338-342

TOPIC TAGS: dielectric coating, reflection coefficient, cavity resonator, microwave equipment, dielectric permittivity

ABSTRACT: In view of various applications of laminated dielectric coating with large reflection coefficients, their reflecting properties are analyzed on the basis of a calculation of the reflection coefficient from a semi-infinite periodic medium, comprising an infinite waveguide of arbitrary cross section, one half of which is filled with dielectric layers. Such a representation neglects the reflection from the second boundary of the layer and is justified at the frequencies considered. The field outside the outermost layer is then described as a sum of incident and reflected waves, and inside the layer by a wave traveling inside the dielectrics. Calculations show that for a given reflection coefficient the dimensions of the laminated coating decrease sharply with increasing dielectric con-

Card 1/4

ACCESSION NR: AP4039734

stant of the layers, and in the case of large dielectric constants (e. g., barium titanate), such layers can be used not only in the optical but also in the microwave bands. It is shown that a frequency exists at which the tangential electric field on the surface of the laminated medium vanishes, making it possible in some cases to replace metallic walls of cavity resonators by laminated dielectrics without distorting the field structure in the cavity. Tests of laminated dielectric consisting of alternating layers of paraffin and foamed plastic placed in a rectangular waveguide confirmed this assumption, and the cavity produced by shorting the ends of this waveguide had approximately the same Q as a metal cavity. Slight deviations from theory are explained. The use of dielectrics with large permittivities (10^2 -- 10^3) will make it possible to reduce the total thickness of the sandwich to 1 -- 2 cm in the 10-cm band and to several tenths of a millimeter in the millimeter band. Orig. art. has: 2 figures and 11 formulas.

ASSOCIATION: None

SUBMITTED: 20May63

ENCL: 02

SUB CODE: EM, MT

NR REF SOV: 003

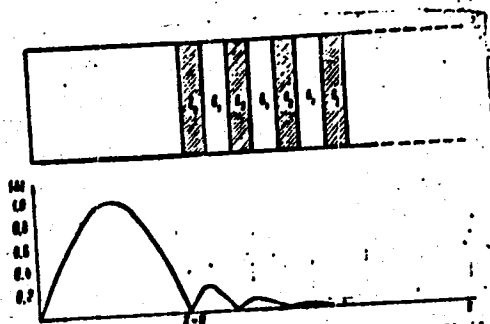
OTHER: 04

Card 2/4

ENCLOSURE: 01

ACCESSION NR: AP4039734

Distribution of electric field in a stratified medium, for $R = 1$, $\lambda = 10$ cm, $\epsilon_2 = 10$, $\epsilon_1 = 1$, $L_2 = 1.2$ cm (H_{01} mode). (R - reflection coeff., λ_{01} - wavelength, ϵ - dielectric const., L - thickness)

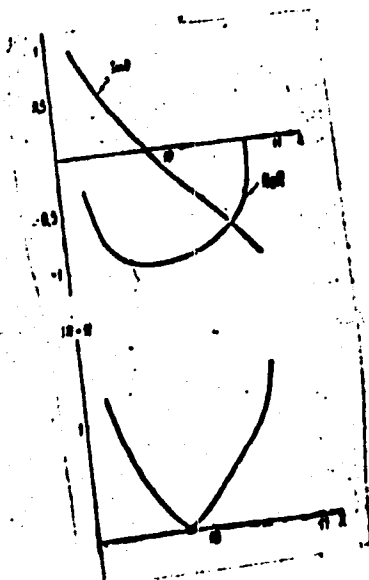


Card

3/4

ENCLOSURE: 02

ACCESSION NR: AP4039734



Card 4/4

Dependence of the reflection coefficient on the wavelength within the rejection band, at $\epsilon_2 = 2$, $\epsilon_1 = 1$, $L_2 = 2.8$ cm, $L_1 = 2$ cm, $a = 7.2$ cm (H₀₁ mode).
(a - width of waveguide)

L 3460-66 ENT(m)/EPA(ir)-2/EWA(m)-2 LJP(c) DM

ACCESSION NR: AP5016934

UR/0089/65/018/006/0633/0634
621.384.612

53
45
B

AUTHORS: Vorob'yev, A. A.; Didenko, A. N.; Lisitsyn, A. I.;
Morozov, B. N.; Pctekhin, Yu. I.; Salivon, L. G.; Filatova, R. M.

TITLE: 10 MeV waveguide synchrotron 19

SOURCE: Atomnaya energiya, v. 18, no. 6, 1965, 633-634

TOPIC TAGS: synchrotron, circular accelerator, electron accelerator,
high energy accelerator, waveguide

ABSTRACT: After first listing some of the theoretical problems in-
volved in the design of accelerators of this type and dealt with at
Institut yadernoy fiziki Tomskogo politekhnicheskogo instituta (Scien-
tific Research Institute of Nuclear Physics of the Tomsk Polytechnic
Institute), the authors describe briefly the 10 MeV synchrotron con-
structed and in operation at this institute since December 1963. The
accelerating system is a rectangular waveguide bent in the shape of a
ring, loaded with diaphragms on the outer wall. A standing H₀₁₈ mode

Card 1/3

L 3460-66

ACCESSION NR: AP5016934

8
in the $\pi/2$ mode is excited in the waveguide. The radius of the equilibrium orbit of the electrons, on which the phase velocity of the H_{018} wave is equal to the velocity of light, is 13 cm. The waveguide interaction space measures 6 x 6 cm. The system Q is approximately 300, the shunt resistance is approximately 0.07 Meg. The electrons are first accelerated to 3 MeV in the betatron mode by a Kerst gun. The high-frequency electromagnetic oscillations are generated by a pulsed 10-cm generator of 5,000 μ sec pulses of 400 W each. The operating pressure is 2×10^{-5} mm Hg. Several of the control and construction features are briefly described. We thank the students of the Tomsk Polytechnic Institute V. I. Zhuravlev, A. M. Voloshin, P. I. Matyazh, A. A. Kushch, and A. N. Pershin, who participated in the adjustment and startup of the installation, and also Ye. S. Kovalenko and A. P. Ol'shanskly for participating in the development of the accelerator theory, its design, and model test.' Orig. art. has: 1 figure

ASSOCIATION: None

Card 2/3

L 3160-66

ACCESSION NR: AP5016934

SUBMITTED: 09Jul64

ENCL: 00

SUB CODE: NP

NR REF SOV: 007

OTHER: 001

BVK.
Card 3/3

L 6407-66 EWT(d)/EWT(m)/EWP(f)/T-2/EWA(c) WE

ACC NR: AP5026823

SOURCE CODE: UR/0286/65/000/017/0100/0101

INVENTOR: Budyko, Yu. I.; Koganer, V. E.; Dukhnin, Yu. V.; Lisitsyn, A. I.; Mal'tsev, A. V.; Pavlyuchenkov, V. V.

TITLE: Fuel-injection system for internal-combustion engines. Class 46, No. 174468 [Announced by the Central Scientific-Research and Design Institute for Fuel Equipment for Automotive and Stationary Engines (Tsentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 100-101

TOPIC TAGS: internal combustion engine, fuel dispersant, fuel injection, fuel injector, engine fuel system

ABSTRACT: An Author Certificate has been issued for a fuel-injection system (see Fig. 1) for internal-combustion engines, which contains plunger-pump sections, suction lines connected to a fuel tank or booster pump, injection lines connected to nozzles, electromagnetic metering devices, and an electronic control unit. For improved uniformity and accuracy in distributing fuel under all engine operating conditions, the electromagnetic metering devices are installed along the suction lines

Card 1/2

UDC: 621.43.038.3

L 6407-66

ACC NR: AP5026823

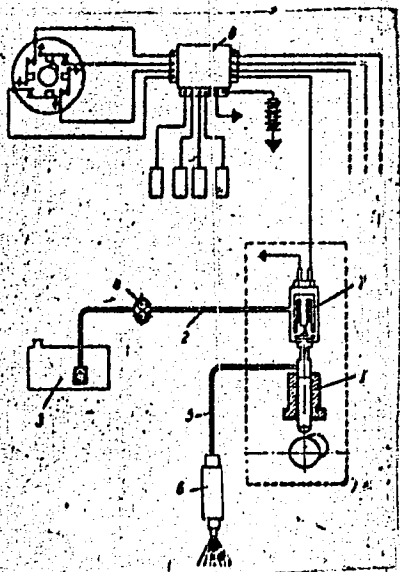


Fig. 1. Fuel-injection system

- 1 - Plunger-pump section; 2 - suction line;
- 3 - fuel tank; 4 - booster pump; 5 - in-
- jection line; 6 - nozzle; 7 - electromag-
- netic metering device; 8 - electronic con-
- trol unit.

of the plunger-pump sections. These devices provide for fuel metering at low pres-
sures. Orig. art. has: 1 figure. [LB]

SUB CODE: FR, GO/ SUBM DATE: 18Jul64/ ATD PRESS: 4181

Card 212

L 04726-67 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(z) IJP(c)

ACC NR: AT6026437 (N) SOURCE CODE: UR/3210/66/000/004/0154/0164
JD/HW/EM

AUTHOR: Semenov, O. A. (Candidate of technical sciences); Lisitsyn, A. I. (Engineer);
Odintsov, B. P. (Engineer); Nazarova, Z. M. (Engineer); Siromashenko, A. M. (Engineer)

31
50
BT1

ORG: none

TITLE: Optical investigation of the stressed state in the rolls of the KhPT-75 tube mill in
connection with its conversion to twin-groove rolling 14

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya, Metall-
urgiya i koksokhimiya, no. 4, 1966, Obrabotka metallov davleniyem (Metalworking by
pressure), 154-164

TOPIC TAGS: metal rolling, rolling mill, stress analysis, photoelasticity / EC-6
epoxy resin, KhPT-75 ROLLING MILL 10 4

ABSTRACT: The conversion of the currently operating cold-rolling tube mills to twin-groove
operation makes it possible to increase their productivity by 50-75%. However, the simultane-
ous rolling of two tubes greatly increases the working load on the elements and components of
the mill. This raises the question of assuring the operating reliability and strength of the rolls
in these conditions. To resolve this question, the authors investigated the stressed state of

Card 1/2

L 04726-67

ACC NR: AT6026437

the rolls by the photoelasticity method,²⁶ a method which consists in that the load-caused change in optical properties at points in a model of an optically translucent material may be measured and expressed in quantities mathematically associated with the stress. This method was used to investigate single- and double-groove roll models constructed of an optically active material based on the ED-6 epoxy resin and built and stressed in accordance with the conditions of geometric and stress similarity. Findings: an analysis of the cross-sectional distribution of stresses in the rolls indicates that points along the contour are subject to the highest stresses. A comparison of the curves of contour stresses for single- and double-groove rolls shows that the maximum tensile stresses in the single-groove roll are roughly 20% higher than in the identically loaded double-groove roll. Therefore, the double-groove roll may withstand higher loads. Therefore also, the replacement of the single-groove rolls with double-groove rolls is, from the standpoint of roll strength, definitely feasible and does not lead to an increase in the stressed state of the roll given the same working load. Orig. art. has: 5 figures, 2 formulas.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 004

Card 2/2

egh

L I S I T I N G , A R

21(4) TRADE I BOOK REVIEWS NOV/71A

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Belgijy sovetskih uchastnykh; *Belgians participants in the conference actually. (Reports of Soviet Scientists); Nuclear Power and Reactor Metals* Moscow, Akademie, 1959. 670 p. (Series: *IZV'* Trudy, vol. 3, 0,000 copies printed).

Ed. (Title page): A.A. Boykov, Academician, A.P. Vinogradov, Academician, V.A. Kovalenko, Corresponding Member, USSR Academy of Sciences, and A.P. Zolotov, Doctor of Technical Sciences; Ed. (Inside book): V.V. Pavlovskiy and O.M. Pohlitskiy; Tech. Ed.: E.I. Masal'.

NOTE: This volume is intended for scientists, engineers, physicists, and biologists working in the production and peaceful application of atomic energy; for professors and students of scientific and higher technical education where the subject is taught; and for people interested in atomic science and technology.

CONTENTS: This is volume 1 of a 3-volume set of reports on atomic energy presented by scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958. Volume 1 consists of two parts. The first part, edited by A.I. Zubov, is devoted to geology, prospecting, concentration and processing of nuclear source material. The second part, edited by G.L. Zverev, includes 27 reports on metallurgy, technology, processing technology of nuclear fuels and reactor metals, and neutron irradiation effects on metals. The titles of the individual papers in most cases correspond word for word with those in the official English language edition of the Conference proceedings. See NOV/2001 for the titles of the other volumes of this set.

Editskiy A.I., G.A. Tsapayev, G.D. Olshteyn, I.Y. Militskiy, V.A. Pohlitskiy, and M.M. Shteynberg. Paragonetic Associations of Hydrothermal Uranium Minerals. In Uranium Deposits of the Soviet Union (Report No. 2501)

Geology, A.I., S.G. Kapulin, G.A. Volker, A.K. Mikhlin, and V.S. Serebrennikov. Some Regularities of Uranium Distribution in Unconformable Waters (Report No. 2499)

See Data on Uranium Minerals in the USSR (Report No. 2060) 138

Geology, A.G., N.Y. Dushurubayeva, A.I. Shonov, M.M. Sokolov, I.I. 160

Geology, B.I. Simov and G.P. Nefedov. Some Theoretical and Methodical 199

Problems of Radiometric Prospecting and Survey (Report No. 2505)

Kalashnikov, Yu.P. The Gamma-ray Mutation Method for Classifying 218

Acidulose in Radioactivity (Report No. 2285)

Kozlov, G.J., and M.L. Spiridonov. Some Problems of Radiometric Uranium 227

Core Concentration (Report No. 2501)

Card 8/11

3(8)

AUTHORS:

Germanov, A. I., Volkov, G. A.,
Lisitsyn, A. K., Serebrennikov, V. S.

SOV/7-59-3-7/13

TITLE:

Results from Investigating the Oxidation-reduction Potential
of Subterranean Waters (Opyt izucheniya okislitel'no-
vosstanovitel'nogo 'potentsiala podzemnykh vod)

PERIODICAL:

Geokhimiya, 1959, Nr 3, pp 259-265 (USSR)

ABSTRACT:

During the period from 1951 to 1957 the oxidation-reduction potential was determined more than 300 times of subterranean waters from (Soviet) Central Asia, Kazakhstan and the Caucasus. Determination was carried out by means of LP-4., LP-5., and P-6-type potentiometers of the "MOSKIP" plant. Samples were in most cases taken from bore-holes and more rarely from springs, and only for purposes of comparison from water-courses on the surface. Certain precautionary measures were taken when taking samples (Fig 1) in order to eliminate the influence exercised by the oxygen of the air. Besides the oxidation-reduction potential, also pH and temperature were measured, a chemical analysis was carried out, and the gas content was investigated (Table). The oxidation-reduction potential is between +550 and -480 millivolt referred to the normal hydrogen

Card 1/2

An Attempt at Investigating the Oxidation-reduction Potential of Subterranean Waters SOV/7-59-3-7/13

electrode; in oxygen-containing waters it is + 300, in hydrocarbonaceous waters it is between -30 and -480 mv. The highest value of + 550 mv was found in water containing oxygen of pH 2. Water containing oxygen is found in depths of up to about 1000 m; the biochemical oxidation of organic substance may be found in even greater depths. There are 3 figures and 1 table.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva (Institute for the Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry, AS USSR Moscow)

SUBMITTED: July 18, 1958

Card 2/2

UDINTSEV, G.B.; LISITSYN, A.N.; NEPROCHNOV, Yu.P.

Equipment and methods used in determining the thickness of
unconsolidated marine deposits and studying the bottom structure
of seas and oceans. Biul.Okean.kom. no.2:41-46 '58.
(MIRA 12:5)

(Deep-sea deposits)

LISITSYN, A. P.

USSR/Meteorology - Ocean Dredger

Aug 52

"Bottom Dredger Ocean 50 and Possibilities of Its Application in Oceanographic Investigations,"
A. P. Lisitsyn, G. B. Udintsev, Moscow Inst of Oceanol, Acad Sci USSR

"Meteorol iGidrol" No 8, pp 44-46

Describes construction of a new improved bottom dredger, designed by the authors. It has a capturing area of 0.25 sq m, wt of 150 kg, and a velocity of descent of 170 m/min. It was tested on depths from 20-to 4,400 m and proved very satisfactory.

229T106

LISITSYN, A.P.: UDINSTEY, G.B.

Photography, Submarine

Photographing the bottom of the sea. Priroda 41 No. 8, 1952.

APPROVED FOR RELEASE: 06/20/2000 of Congress, November 1952. Unclassified.

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

CIA-RDP86-00513R000930110015-1

LISITSYN, A. P.

Seashore

Lithologic traces of old buried coastal lines, Dokl. AN SSSR, 84, No. 4, 1952.

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

LISITSYN, A. P.

PA 243T65

USSR/Geophysics - Shore Lines

Jan/Feb 53

"Ancient Shore Lines on the Bottom of the Sea," A. P. Lisitsyn and G. B. Udintsev, Oceanology Inst, Acad Sci USSR

"Iz Ak Nauk SSSR, Ser Geograf" No 1, pp 23-31

A complete study of the principal laws governing the tectonic development of the earth's crust necessitates a knowledge of the important features of geological history of seas and oceans, the bottoms of which occupy 7/10ths of the earth's surface.

243T65

LISITSYN, A.P.; PETELIN, V.P.; UDINTSEV, G.B.

Current methods of obtaining long core samples of marine deposits (author's summary). Biul.MOIP. Otd.geol. 28 no.1:91-92 '53. (MIRA 6:11) (Boring)

LISITSYN, A.P.; PETELIN, V.P.

Recent carbonate deposits in cold water seas (author's summary). Biol.MOIP.
Otd.geol. 28 no.2:82-83 '53. (MLBA 6:11)
(Carbonates (Mineralogy))

UDINTSEV, G.B.; LISTITSYN, A.P.

Study of the stratification of recent marine deposits with the aid of a sounding device (author's summary). Bnl.MOIP. Otd.geol. 28 no.2:83-84
'53. (MLRA 6:11)
(Deep-sea deposits)

LISITSYN, A.P.

Petrographic areas of coarsely fragmental material in recent marine deposits
(author's summary). *Biul.MOIP. Otd.geol.* 28 no.2:84-86 '53. (MLRA 6:11)
(Okhotsk, Sea of--Deep-sea deposits) (Deep-sea deposits--Okhotsk, Sea of)

1. LISITSYN, A.P.; UDINTSEV, G.B.
2. USSR (600)
4. Deep-Sea Sounding
7. Maximum depth of the ocean, G.B. Udintsev, A.P. Lisitsyn, Priroda 42 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

1. UDINTSEV, G. B.; LISITSYN, A. P.
2. USSR (600)
4. Sedimentation and Deposition
7. Study of the stratification in contemporary oceanic sedimentation by means of an echo sounder. Dokl. AN SSSR 88, No. 5, 1953.

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

LISITSYN, A. P.

USSR/ Geology - Oceanology

Card : 1/1

Authors : Lisitsyn, A. P., Petelin, V. P., and Udintsev, G. B.

Title : New achievements of Soviet Sea geology

Periodical : Priroda, 6, 63 - 66, June 1954

Abstract : Brief excerpts are given on the work of the Institute of Oceanology of the Academy of Sciences USSR and the difficulties involved in studying the geological history of the sea and ocean bottoms. Illustrations.

Institution : Acad. of Sc. USSR, Institute of Oceanology

Submitted :

LISITSYN, A.P.; UDINTSEV, G.B.

New model of a bottom dredger bucket. Trudy Hidrobiol.ob-va
no.6:217-222 '55. (MLA 8:9)

1. Institut okeanologii Akademii nauk SSSR
(Dredging (Biology))

LISITSYN, A.P.

Data on the distribution of particulate matter in the Kurile-
Kamchatka Trench. Trudy Inst.ocean. 12:62-96 '55.

(MIRA 8:9)

(Kurile Trench--Marine biology)

ЛИСТЫН, А.П.
LISITSYN, A.P.

Atmospheric and water-borne suspended matter as raw material in the
formation of marine deposits. Trudy Inst.ocean.13:16-22 '55.
(Ocean bottom) (MIRA 8:11)

LISITSYN, A.P.

Transport role of marine ice. *Bul.MOIP. Otd.geol.* 30 no.4:111-
114 J1-Ag'55. (MLRA 8:12)

(Arctic regions--Ice)

LISITSYN, A.P.

USSR/Geology

Card 1/1 Pub. 22 - 34/45

Authors : Lisitsyn, A. P.

Title : Distribution of organic carbon in Bering Sea sedimentations

Periodical : Dok. AN SSSR 103/2, 299-302, Jul 11, 1955

Abstract : Geological data are presented on the origin and quantitative distribution of organic carbon (Corg) found among the sedimentations of the Bering Sea. Twelve references: 2 USA, 1 Ger and 9 USSR (1931-1955). Table; diagram; graphs.

Institution : Acad. of Sc., USSR, Inst. of Oceanology

Presented by: Academician S. I. Mironov, April 11, 1955

LISITSYN, A.P.

✓ Distribution of authigenic SiO_2 in the bottom sediments of the western Bering Sea. A. P. Lisitsyn, *Doklady Akad. Nauk S.S.S.R.* 103, 479-522 (1958). The authigenic SiO_2 content (dtd. by double leaching in 5% Na_2CO_3 soln.) of the clayey silts is 26.8%, that of aleuritic silts 21.6%, of small-granular silts 15.4%, of coarse aleurites 7.4%, of small-granular sands 3.2%, of coarse sands 1.9%, as an average, but it varies widely in the single samples. In gravels the author dtd. 2.7 to 13.9% of sol. SiO_2 . A graph shows the steep decrease of the authigenic SiO_2 contents with increasing diam. of the particles. The chief source of the authigenic SiO_2 is the plankton-diatomaceous material; no indication was found for a chem. pptn. of SiO_2 . Barnes and Thompson (*C.A.* 33, 5713) dtd. the highest known SiO_2 concn. dissolved in sea water from the Bering Sea with 12.6 Mg SiO_2 per l. The littoral sediments are relatively low in authigenic SiO_2 (only 6% max.), while the central regions show the highest SiO_2 contents, as shown by a map. Particularly interesting is the distribution of authigenic SiO_2 on the W. and E. slope of the submarine Shirshova Range, with a min. along the crest of this range. The diatomaceous shells are visibly corroded and even redissolved in the deep-sea sediments (2000 to 4000 m., cf. Bezrukov, *C.A.* 50, 22184). The MnO_2 content is about 0.65%; all of the authigenic SiO_2 is biogenic. W. E.

W. E.

LIZUNOV, N.V.; LISITSYN, A.P.

Composition of suspended matter in the Bering Sea as determined by spectrographic analysis. Dokl. AN SSSR 104 no.4:593-596 O '55.

1. Laboratoriya mineralogii i geokhimi redkikh elementov Akademii nauk SSSR. Predstavleno akademikom N.M. Strakhovym.
(Bering Sea--Water--Analysis)

~~LISITSYN~~ LISITSYN, A. P.

15-57-4-5284

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 171 (USSR)

AUTHORS: Sysoyev, N. N., Mikhal'tsev, I. Ye., Udintsev, G. B.,
Lisitsyn, A. P.

TITLE: The Potentialities of Studying the Thickness of Uncon-
solidated Marine Sediments by Seismo-Acoustical Methods
(Perspektivy izucheniya moshchnosti rykhlykh morskikh
otlozheniy seysmoakusticheskimi metodami)

PERIODICAL: Buyl. Soveta po seysmol. AN SSSR, 1956, Nr 2, pp 52-58.

ABSTRACT: The authors examine the potentialities of seismo-
acoustical investigations of the floor of the seas and
oceans. The apparatus for these studies (EKhO-52),
which permits the use of either reflected or refracted
waves, was designed and built at the Institute of
Oceanology (Oceanography and all related and pertinent
sciences) of the Academy of Sciences of the USSR in
consultation and cooperation with the Acoustical
Institute. The apparatus includes a detector with a

Card 1/2

15-57-4-5284

The Potentialities of Studying the Thickness (Cont.)

sensitive element of Rochelle salt, a specially constructed amplifier, and also an 8-loop oscillograph MPO-2 and an electronic oscillograph EO-4 with a photographic recorder. The apparatus was tested in the eastern part of the Black Sea and produced satisfactory results. Reflections were obtained from four horizons at depths of 180 m, 330 m, 470 m, and 570 m. The question is raised as to the possibility of forming tsunamis during underwater landslides.

Card 2/2

L. L. V.

LISITSYN, A.P.

Methods for collecting and studying suspended matter in water
for geological purposes. Trudy Inst.okean. 19:204-231 '56.

(MLRA 10:2)

(Sedimentation and deposition)

UDINTSEV, G.B.; LISITSYN, A.P.; KANAYEV, V.F.; ZENKEVICH, N.L.;
GANPANTSEV, F.I.

Design of a piston core sampler with an automatically
stabilized piston. Trudy Inst.okean. 19:232-237 '56.

(MLRA 10:2)

(Boring machinery)

LISITSYN, A.P.; PETELIN, V.P.

Method for preliminary treatment of ocean bottom samples on
board ships. Trudy Inst.ocean. 19:240-251 '56. (MLRA 10:2)

(Ocean bottom) (Borings)

SOV/14-57-12-25581

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 12,
p 36 (USSR)

AUTHORS: Lisitsyn, A. P., Kanayev, V. F.

TITLE: Mechanical Analysis of Coarsely Fragmental Material
at Sea (Mekhanicheskiy analiz grubooblomchnogo
materiala v sudovykh usloviyakh)

PERIODICAL: Tr. In-ta okeanol. AN SSSR, 1956, Vol 19, pp 252-261

ABSTRACT: The authors note that iceberg and ice-transported
marine deposits are very common in navigable ocean
waters, that they are found in certain zones, and
that they are important in the formation of deposits
on the bottom of oceans and seas. Studies of the laws
governing the distribution of the coarsely fragmental
material found in these deposits have been conducted
during the cruises of the vessel "Vityaz" since 1949.
The authors describe the method used to analyze

Card 1/2

LISITSYN, A.P.

Processing results of the mechanical analysis of ocean bottom
deposits. Trudy Inst.okean. 19:262-287 '56. (MLRA 10:2)

(Ocean bottom)

LISITSYN, A.P.

Water content of bottom deposits of the western regions of the
Bering Sea. Dokl.AN SSSR 107 no.3:455-458 Mr '56. (MIRA 9:7)

1.Institut okeanologii Akademii nauk SSSR. Predstavleno akademikom
N.M.Strakhovym.
(Bering Sea--Sedimentation and deposition)

LISITSYN, A.P.

Moisture variation in long vertical samples taken from the Bering Sea.
Dokl.AN SSSR 108 no.2:313-316 My '56. (MIRA 9:9)

1. Predstavlena akademikom N.M.Strakhevym.
(Bering Sea—Sedimentation and deposition)

Л-24.12.77, П.1.
ZHIVAGO, A.V.; LISITSYN, A.P.

New data on bottom relief and sediments in the eastern Antarctic seas.
Izv. AN SSSR. Ser. geog. no. 1:19-35 Ja-F '57. (MLRA 10:4)

1. Institut geografii AN SSSR i Institut okeanologi AN SSSR.
(Antarctic Ocean--Ocean bottom)

LISITSYN, P. I.

UDINTSEV, G.B.; LISITSYN, A.P.; KANAYEV, V.F.; ZENKEVICH, N.L.; GANPANTSEV,
P.I.

Piston tube with rigid frame for obtaining high quality samples
of marine deposits. *Zemlevedenie* 4:263-266 '57. (MIRA 10:9)

(Deep sea deposits)

(Scientific apparatus and instruments)

LISITSYN, A.P.

20-6-15/48

AUTHORS: Lisitsyn, A.P., Mikhal'tsev, I.Ye., Sysoyev, N.N., Udintsev, G.B.

TITLE: New Data on the Thickness and on the Sedimentary Conditions of Soft Deposits in the Northwestern Part of the Pacific (Novyye dannyye o moshchnosti i usloviyakh zaleganiya rykhlykh otlozheniy severo-zapadnoy chasti Tikhogo Okeana)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1107 - 1110 (USSR)

ABSTRACT: At present the Institute for Oceanology, AN USSR, investigates the thickness of the slack deposits on the bottom of the seas and oceans by seismic-acoustical methods. It is referred to former expeditions on board of the ship "Vityaz". In these investigations detonations of explosive charges of 400 g up to 120 kg served as sources of the elastical oscillations. These charges exploded according to the operational method either at the surface of the water or in a depth of 1 m or in depths between 50 and 70 m. The reflected waves were registered immediately at the point of the explosion or in different distances from it. The receivers were let down into depths of 30 to 150 m. The recorded signals were amplified and registered by a magneto-

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New Data on the Thickness and on the Sedimentary Conditions of Soft Deposits in the Northwestern Part of the Pacific

electrical oscillograph. The present paper investigates the data obtained from the registration of the reflected waves immediately at the point of the explosion. The evaluation of these data gives evidence of the existence of several interfaces in the soft layer of deposits and these parting surfaces lie in different depths below the bottom of the sea. Southeast of the middle part of the Kuriles in all measuring points 2 to 3 reflecting layers were ascertained and the depth of these layers under the bottom of the sea is different in every point. One of these parting layers reflects the waves twice as much as the bottom of the sea. This parting interface was ascertained in a very far distance from the Haway underwater-ridge to the height of Zenkevich. Then the behavior of these layers east of the Japanese island Honshu (Khonsyn) and in the Philippines ditch is discussed. The results of these investigations obtained so far are not plenteous and their interpretation is not concluded yet. Nevertheless the following can already be said: These results are in good conformity with the results obtained by sonic altimeter and the accumulation of the deposits in the northwestern basin of the Pacific takes place irregularly. There are 1 figure, 2 tables and 2 references, 1 of which is Slavic.

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20-6-15/48

New Data on the Thickness and on the Sedimentary Conditions of Soft Deposits
in the Northwestern Part of the Pacific

ASSOCIATION: Institute for Oceanology, AN USSR
(Institut okeanologii Akademii nauk SSSR)

PRESENTED: March 20, 1957, by D.I. Shcherbakov, Academician

SUBMITTED: March 7, 1957

AVAILABLE: Library of Congress

Card 3/3

LISITSYN, A. P.

Processes of Contemporary Sedimentation in the Bering Sea.
The author describes methods used in the analysis of bottom deposits and discusses the influence of rivers (Yukon, Anadyr', etc.) on the process of sedimentation. The main climatic, hydrological and hydrochemical peculiarities of the Bering Sea are pointed out. Three types of sediments are analyzed in special sub-chapters: terrigenous sediments, biogeneous sediments, and volcanogenic deposits.

Oceanographic Research of the Northwestern Part of the Pacific Ocean Moscow, Izd.-vo AN SSSR, 1958, 148 p. Its: Trudy t.2.

This collection of articles reports the results of observations made in the Pacific by the Institute of Oceanology of the Academy of Sciences, USSR. In 1949 the Institute launched a systematic five-year program of scientific exploration of certain hydrographic peculiarities of the Soviet Pacific Area. The operations were carried out as a "Complex Oceanographic Expedition," using the Motorboat Vityaz' as its base. The Expedition worked in collaboration with the Hydrographic Institute of the Soviet Navy (VMS), the Pacific Institute of Piscatology and Oceanography, and some 40 other institutes of the Academy of Sciences. Between 1949 and 1954, 18 trips were made, covering about 130,000 miles. Among the subjects of direct concern were: Meteorology, hydrology, oceanography, hydrochemistry, sedimentation, geography of the littoral, geology and contours of the sea bottom, fauna, plankton, microbiology, and gravimetry. Twenty-eight authors contributed to the collection which consists of 27 articles/ There are 6 tables, 23 diagrams, 3 illus. (photo of littoral) 4 maps. no references.

Л. Б. И. Т. С. Я. Н., Н. П.

KRAVTSOV, N. D.

3(5) ПЯТЬ ПЕРВЫХ ВЫПУСКОВ 207/1637

Академия наук СССР. *Пять первых выпусков* экспедиции. *Специальная серия* на диск-электрических носителях. 1955-1956 гг. "Об" "Description of the Expedition Board the Diesel-electric Ship 1955-1956" Moscow, Izd-vo AN SSSR, 1956. 237 p. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Soviet Geographical Institute for this vol.; I. P. Burdin, Akademicheskii Tsentr, MA. Marine Antarctic Expedition, USSR Academy of Sciences; Editorial Board: A. A. Afanas'yev (Chief, Main Administration of the Northern Sea Route, Sea Route, SNV), V. G. Babinov (Minister of Sea Transport), V. P. Burdakov (Deputy Chief, Main Administration of the Northern Sea Route), A. A. Solov'yev (Chief, Main Administration of the

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Hydro-meteorological Service), V. G. Kort (Professor, Chief, 1st trip of the Marine Antarctic Expedition, USSR Academy of Sciences), M. M. Somov (Chief, Combined Antarctic Expedition, USSR Academy of Sciences), V. V. Prolov (Director, Arctic Scientific Research Institute, Main Administration of the Northern Sea Route), D. I. Shcherbakov (Chairman, Council for Antarctic Research, USSR Academy of Sciences; Eds. of Publishing House: E. I. Sprygina, and B. S. Shokhat; Tech. Ed.: P. S. Mashina.

REMARKS: This volume is intended for the general reader.

COVERAGE: The Report of the Combined Antarctic Expedition of the AN SSSR, headed by M. M. Somov, contains an account of the work on the first trip of the Diesel-electric ship "Ob" to the Antarctic and the aims and problems involved, including the establishment of an observatory at Mirny. A major part of the book is devoted to scientific research in aerology, meteorology and actinometry.

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conducted in cooperation with the IGY program. A large part of the observations and preliminary findings cited are in the field of hydrology and hydrobiology, marine geology, geophysics, hydrography and hydrobiology. A number of the members of the expedition together with their specialties are included. There are 72 figures, including maps. Bibliographic references accompany separate chapters.

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LISITSYN, A.P.

AUTHOR: Lisitsyn, A.P., Zhivago, A.V. 10-58-2-2/30

TITLE: Submarine Relief and Sediments in the Southern Part of the Indian Ocean (Rel'yef dna i osadki yuzhnoy chasti indiyaskogo okeana) First Report (Soobshcheniye 1-ye)

PERIODICAL: Investiya Akademii nauk SSSR - Seriya geograficheskaya, 1958 Nr 2, pp 9-21 (USSR)

ABSTRACT: During the second voyage of the Antarctic expedition of the vessel "Ob", organized by the AS USSR, complex oceanographic research work was done in the southern part of the Indian Ocean between 20 and 100° east longitude (Figure 1). A profile has been prepared of the Indian Ocean comprising the area from the Antarctic to the mouth of the Ganges along 97° east longitude. Sonic-depth measurements have been carried out in the eastern and central parts of the Atlantic Ocean including Romansh Depression and areas west of the Central Atlantic Ridge, the northern part of the Indian Ocean from Colombo to the Arabian Gulf, the Red and the Mediterranean Sea. Research of the sea bottom was carried out with the Soviet self-recorder sounding device, NEL-5. The following Soviet scientists took part in the expedition: A.P. Lisitsyn, A.V. Zhivago, A.F. Beresnev, Ye.I. Gordeyev, S.Ye. Alferov, P.N. Fominykh, V.V. Shiporin, A.F. Shmyrev, A.I.

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10-58-2-2/30

Submarine Relief and Sediments in the Southern Part of the Indian Ocean
First Report

Kuvarzin and Ye.I. Sidorov. A detailed, characteristic picture of the bottom relief of the Indian Ocean is given in Figure 7. Apart from the discovery of the morphological type of the bottom, the research of the submarine relief made it possible to correct former mistakes made in marking the coastal line, to establish the limits of some volcanic elevations and to map a number of new upheavals. A pronounced predominance of the volcanic type relief on the bottom of the southern ocean has been discovered. The well-preserved forms suggest a recent origin. In many areas a process of sedimentation is taking place in the irregular structure formed by volcanic activity. This process of accumulative leveling is only beginning. Only in individual sections of weak volcanic activity does this process form even-wavy plains. The echograms give a good picture of the thickness of the surface sediments and their stratification. Especially clear recordings have been obtained for the deep-water zone south of the isles of "Kroze" where a thickness of about 15 m has been recorded for several layers. The important part played by disjunctive dislocations was disclosed, as far as

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1. Oceanography 2. Indian Ocean--Characteristics

Submarine Relief and Sediments in the Southern Part of the Indian Ocean
First Report

10-58-2-2/30

the formation of big and minor relief forms of the shelf and matrix slopes of the Antarctic is concerned. Big ruptures and upheavals accompanied by minor breaks and dislocations of the rocks give evidence of powerful tectonic tensions existing in the wide zone of contact between the continent and the oceanic bottom. There are five graphs and two charts.

ASSOCIATION:

Institut okeanologii AN SSSR (Institute of Oceanography of the AS USSR) Institut geografii AN SSSR (Institute of Geography of the AS USSR)

Card 3/3

ZHIVAGO, A.V.; kand.geol.nauk; LISITSYN, A.P., kand.geol.nauk

Bottom relief and sediments of the Southern Ocean. Inform.biul.
Sov.antark.eksp. no.3:21-22 '58. (MIRA 12:4)

1. Moskovskiy gosudarstvennyy universitet i Institut okeanologii
AN SSSR.

(Antarctic regions--Ocean bottom)

AUTHOR: Lisitsyn, A.P., and Zhivago, A.V. 10-58-3-4/29

TITLE: Bottom Relief and Sediments in the Southern Part of the Indian Ocean (Rel'yef dna i osadki yuzhnoy chasti Indiyaskogo okeana).
Second Report (Soobshcheniye 2-ye)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, 1958,
Nr 3, pp 22-36 (USSR)

ABSTRACT: The article is the 2nd report on the second passage of the Soviet naval Antarctic expedition in 1956/57, covering a considerable part of the Indian Ocean and its Antarctic areas. The authors present the following detailed description of the bottom sediments discovered: 1) terrigenous sediments, 2) volcanogenous sediments, 3) organogenous sediments, 4) chemogenous sediments, 5) red deep-water clay. Examinations and analyses have been carried out by Lisitsyn, A.P. Morozova, A.P. Zhuze, I.P. Svirenko, N.A. Minskiy, N.S. Dobronravoza, Z.A. Glagoleva, P. Ushakov and G. Belyayev. There are 4 maps, 1 table, and 13 references, 4 of which are Soviet, 5 English, and 4 German.

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10-58-3-4/29

Bottom Relief and Sediments in the Southern Part of the Indian Ocean.

Second Report

ASSOCIATION: Institut okeanologii AN SSSR (Oceanographic Institute of the AS USSR), Institut geografii AN SSSR (Geographical Institute of the AS USSR)

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1. Indian Ocean bottom - Analysis
2. Sedimentation - Indian Ocean