LATSINNIK, Ye, Ya

GOL'SHTEYN, I.M., prof.; DEMIKOVS'KIY, Ye.I., prof.; KOROVITS'KIY, A.K., prof.; LATSINNIK, Ye.Ya., prof. (Odesa); BRAUDE, I.H., prof. (Kharkiv)

Isak Il'ich Levin; obituary. Mikrobiol.zhur. 19 no.4:69-70 '57. (MIRA 11:1)

1. Pravlinnya Dnipropetrovs'kogo filialu Vsesoyuznogo tovaristva epidemiologiv, mikrobiologiv ta infektsionistiv.
(LEVIN, ISAK IL'ICH, 1904-1957)

LATSINNIK, Ye. Ya.

GOL'SHTEYN, I.M.; DENIKHOVSKIY, Ye.I. (Dnepropetrovsk); KOROVITSKIY, L.K.; LATSINNIK, Ye.Ya. (Odessa); BRAUDE, I.R. (Khar'kov); BOGDANOV, I.L. (Kiyev)

Isaak Il'ich Levin; an obituary. Vrach.delo no.2:219 F '58. (MIRA 11:3)
(LEVIN, ISAAK IL'ICH, 1904-1958)

LATSINIK, Ye.Ya., prof.; SUSHKO, S.R.; FILONOVSKAYA, M.G.; ISKOL'D, G.Z. (Odessa)

Diagnosis and clinical aspects of salmonellosis caused by Heidelberg and London bacteria. Vrach.delo no.2:143-147 F '59. (MIRA 12:6)

1. Gorodskaya infektsionnaya bol'nitsa.
(SALMONELLA)

LATSINIK, Ye.Ya., prof.; SUSHKO, S.R. (Odessa)

Study of the effectiveness of compound and combined drug and antibiotic therapy in chronic dysentery. Vrach.delo no.3:267-271 Mr '59. (MIRA 12:6)

1. Gorodskaya infektsionnaya bol'nitsa.
(DYSENTERY) (ANTIBIOTICS) (PHTHALANILIC ACID)

LATSINIK, Ye.Ya., prof.; SLOVESNIK, R.S.; SOKOL'SKAYA, G.T.; KALINA, O.S. (Odessa)

Mistakes in the diagnosis of Botkin's disease and of obstructive jaundice. Vrach.delo no.1:65-69 '60. (MIRA 13:6)

1. Gorodskaya infektsionnaya bol'nitsa.
(HEPATITIS, INFECTIOUS) (JAUNDICE)

LATSINIK, Ye.Ya., prof.; SHARAPOVA, O.K.; SUSHKO, S.R.; MAZUR, D.Ye.; SOTNICHENKO, L.A.

Peculiarities in the clinical aspects of the pandemic influenza of 1957. Vrach.delo no.3:287-289 Mr '60. (MIRA 13:6)

1. Gorodskaya infektsionnaya bol'nitsa, Odessa.
(ODESSA--INFLUENZA)

LATSINIK, Ye.Ya., prof.; NOTKIN, D.L., kand.med.nauk; SLOVESNIK, R.S.; SOSNOVSKAYA, L.A.; BACHINSKIY, D.Kh.; SOTNICHENKO, L.A.; KAMINSKAYA, L.I. (Odessa)

Characteristics of the clinical course of Asian flu ($A^2$) in the 1959 epidemic. Klin.med. 38 no.3:59-63 Mr'60. (MIRA 16:7)

1. Iz Odesskoy gorodskoy infektsionnoy bol'nitsy Leninskogo rayona (glavnyy vrach L.T.Zhidovlenko).

LATSINIK, Ye.Ya., prof.; SUSHKO, S.R.; SOTNICHENKO, L.A. (Odessa)

Some characteristics of the course of dysenterial peritonitis. Klin.med. 39 no.3:62-65 Mr '61. (MIRA 14:3)

1. Iz Gorodskoy infektsionnoy bol'nitsy (glavnyy vrach L.T. Zhidovlenko).
(DYSENTERY) (PERITONITIS)

MAL'CHENKOVA, S.V.; LATSINNIK, A.A., elektromekhanik

Device for checking the output limitation of IGIO apparatus.
Avtom., telem. i sviaz. 9 no.1:37 Ja '65. (MIRA 18:2)

1. Starshiy elektromekhanik Bryanskoy distantsii Moskovskoy dorogi (for Mal'chenkova).

L 27982-66 EWP(w) EM

ACC NR: AP6017675 SOURCE CODE: UR/0198/65/001/007/0067/0076

AUTHOR: Grigorenko, Ya. M. (Kiev); Latsinnik, I. F. (Kiev)

ORG: Institute of Mechanics, AN UkrSSR (Institut mekhaniki AN UkrSSR)

TITLE: Bending of a circular plate of linearly variable thickness subjected to an antisymmetric load

SOURCE: Prikladnaya mekhanika, v. 1, no. 7, 1965, 67-76

TOPIC TAGS: flat plate, second order differential equation, bend test

ABSTRACT: It was previously shown by one of the authors (Ya. M. GRIGORENKO) that the problem of antisymmetric bending of a circular plate of radially variable thickness, just as in the case of symmetric bending, is described by a differential equation of the second order. A. D. KOVALENKO, Ya. M. GRIGORNEKO and L. A. IL'IN in 1963 presented a general solution to the problem for a plate of linearly variable thickness, this solution corresponding to boundary load. The present article offers a method of solving this problem and presents tables of partial solutions of homogeneous equations. Partial solutions of nonhomogeneous equations are expressed in elementary functions. Partial solutions are given for some forms of distributed load. A number of examples are given to illustrate the method. Orig. art. has: 4 tables and 46 formulas. [JPRS]

SUB CODE: 12, 13 / SUBM DATE: 19May64 / ORIG REF: 004

Card 1/1

LATSIS, A.

7709. LATSIS, A. - Obshchimi silami. trudovyye uspekhi kolkhoza (kopdarbiba) , Gulben. Rayona. Riga, Latgosizdat, 1954. 112 s.s ill.20sm. 3.000 ekz 1 R. 60 K. -- Na latysh. Y az.--(55-3240) 338.1K (47.43)

SO: Knizhnaya Letopis', Vol. 7, 1955

BERNEY, I.I., kand.tekhn.nauk; GRAZHDANSKIY, S.A., inzh.; KINSTLER, K.M., inzh.; LATSIS, A.G., inzh.; ZAUERKHAGENA, G.O., inzh.

Modernization of sheet-molding machines. Stroi. mat. 8 no.6:27-29 Je '62. (MIRA 15:7)

(Asbestos cement) (Molding machines)

LATSIS, G.M.; KHUGLOVA, G.I., red.; KISINA, Ye.I., tekhn. red.

[Tables for calculating fermentable in molasses] Tablitsy dlia opredeleniia summy sbrazhivaemykh sakharov v melasse. Moskva, Pishchepromizdat, 1957. 133 p. (MIRA 11:7)
(Molasses--Analysis) (Sugars--Analysis)

LATSIS, K.I.

A republican conference was held at the Ministry of Agriculture, Latvian SSR, at the end of July in Riga. The conference heard a report by Deputy Minister of Agriculture, Latvian SSR, A. Ya. Kalnin, on the topic "On the Condition and Status of Veterinary Service in the Republic", and a report of the Chief of Veterinary Administration, Ministry of Agriculture, Latvian SSR, K.I. LATSIS, "On the Veterinaro-sanitary Condition of the Kolkhozes and Sovkhozes of the Republic and about the Fulfillment of the Plan of Anti-epizootic and Antihelminthous Measures for the first half of 1952."
SO: Veterinariya;Vol. 29; No. 10; 61-62; October 1952 uncl de g
Trans. # 111 by L. Lulich

VANAG, Ya.[Vanags, J.]; DZERVE, P.; KAUGUR, K.[Kaugurs, K.]; LATSIS,R.[Lacis, R.]; ROKPELNIS, F.; RUNTSIS, A.[Runcis, A.]; STARODUBSKIY,L.; PLOTKE, I., red.; SILIN',V.[Silins,V.], tekhn. red.

[Fifteen years of Soviet Latvia, 1940-1955]15 let Sovetskoi Latvii, 1940-1955. Sost. i avtory tekstov: IA.Vanag i dr. Red. I.Platke. Riga, Latviiskoe gos. izd-vo, 195[illegible]. 1 v. (MIRA 15:12)
(Latvia—Views)

LATSIS, VILIS

PHASE I BOOK EXPLOITATION SOV/5174

Pravda, Moscow.

Vtoroy Sovetskiy kosmicheskiy korabl'; materialy, opublikovannyye v gazete "Pravda" (The Second Soviet Cosmic Ship; Materials Published in the Newspaper "Pravda") Moscow, 1960. 198 p. 50,000 copies printed.

Resp. for this Publication: V. Reut and V. Smirnov; Tech. Ed.: V. Yagodkina.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a compilation of articles which appeared in the newspaper Pravda after the launching, orbiting, and recovery of the capsule of the Soviet 4,600 kg spaceship on August 19, 1960. The articles give some details of scientific research undertaken in this flight in the fields of biology, cytology, genetics, cosmic radiation, solar radiation, ultraviolet radiation, and radiation levels. A description and

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three photos of the capsule are given. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

30685. LATSIS, V.

Rastsvet Sovetskoy Latvii (K 5-y Godovshchine Osvobozhkeniya Respubliki). Ogonek, 1949, No. 41, s. 5, S. portr.

GAYEVSKIY, Boris Antonovich; LATSIYEV, R.Ya., kandidat tekhnicheskikh nauk, redaktor; LEUTA, V.I., inzhener, redaktor; UL'BERG, R.F., inzhener, retsenzent; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Machine and equipment of the paper industry] Mashiny i apparaty bumazhnoi promyshlennosti. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 287 p. (MLRA 9:3)
(Papermaking machinery)

GRYAZNOV, N.S.; LATSKAYA, M.P.; KOMAROVSKAYA, G.M.

Pore formation in coke. Koks i khim. no.1:16-24 '56. (MLRA 9:5)

1. Vsesoyuznyy uglekhimicheskiy institut.
(Coke)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.; KAUFMAN, A.A.; KOMAROVSKAYA, G.M.; LATSKAYA, M.P.; IVANOVA, L.V.

Peculiarities of the process of coking coal with oil additions. Koks i khim. no.1 6:17-22 '61. (MIRA 15:2)

1. Vostochnyy uglekhimicheskiy institut.
(Coke industry)

VESELOV, Aleksey Illarionovich, doktor tekhnicheskikh nauk, professor; LATSKIY, V.I., redaktor; LUCHKO, Yu.V., redaktor; KOVALENKO, N.I., tekhnicheskiy redaktor.

[Mine pumping] Rudnichnyi vodootliv. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsetnoi metallurgii, Sverdlovskoe otd-nie, 1956. 532 p. (MLRA 9:6)
(Mine pumps) (Mine drainage)

KRUSHENOK, D.I.; OGNEV, A.P.; LATSKIY, V.I.; MURZIN, G.A.

High-speed entry driving in the Degtiarka mine. Gor.zhur.no.3: 7-9 Mr '56. (MLRA 9:7)

1.Degtyarskoye rudoupravleniya (for Krushenok, Ognev).2.Unipromed' (for Latskiy, Murzin).2.Unipromed' (for Latskiy, Murzin)

ROZHNOVSKIY, A.A.; SHILIN, A.N.; LATSKIY, V.I.

Conference on problems of increasing labor productivity. Gor.zhur.no.8: 60 Ag '56. (Mine management) (MLRA 9:10)

LATSKIY, VENIAMIN ISAKOVICH

MURZIN, Georgiy Alekseyevich; LATSKIY, Veniamin Isakovich; TSIMBALENKO, L.N., red.; TSYMBALIST, M.M., red.izd-va; ZEF, Ye.M., tekhn.red.

[Accelerated tunneling in copper mines in the Urals] Skorostnye prokhodki na mednykh rudnikakh Urala. Sverdlovsk, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1957. 55 p. (MIRA 11:2)
(Ural Mountains--Tunneling)

LATSKIY, V. I.

118-58-3-3/21

AUTHORS: Murzin, G.A.; Latskiy, V.I.; Zimin, V.A.; Kizler, E.A.; and Sanik, A.Ya., Engineers

TITLE: Machine Tools for the Manufacturing of Mining Supports (Stanki dlya izgotovleniya elementov krepi)

PERIODICAL: Mekhanizatsiya Trudoyemkikh i Tyazhelykh Rabot, 1958, # 3, pp 10-13 (USSR)

ABSTRACT: The Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti-unipromed' (Ural Scientific Research and Designing Institute of the Copper Industry) has worked out 2 new types of mining support manufacturing machine tools, the "KZS-1U"and the "KZS-2U". The KZS-1U is a two spindle milling machine capable of producing 120 mining supports per hour, with lengths from 2,300 to 3,000 mm, and diameters from 170 to 250 mm. Two electric motors of the A52-4 type are used to operate the machine; one electric motor of the AOL-22-4 type is used for the conveyor mechanism. The wattage of the electric motors ranges from 7 to 0.4 kw. The dimensions of the machine are 4,180x2,885x1,435 mm, and its weight is 2,622 kg. The test model manufactured by the Kyshtymskiy mekhanicheskiy zavod (Kyshtym Mechanical

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Plant) has shown high working qualities.

The KZS-2U, used to cut vertical props, is a two spindle milling machine. Material handling is automatic, with an output of 30 props per hour. The length of the manufactured props may range from 1,500 to 3,900 mm, and their diameters from 180 to 220 mm. The machine is operated by two 4.5 kw electric motors of the AOL-51-4 type. Two 0.4 kw electric motors of the AOL-22-4 type are used, one each for the moving of carriages and material handling. The dimensions of the milling machine are 10,500x2,140x2,187 mm and its weight is 2,170 kg.

There are 3 graphs.

AVAILABLE: Library of Congress

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KULAKOV, I.K., gornyy inzh.; LATSKIY, V.I., gornyy inzh.; MINGALEV, Yu.A., gornyy inzh.

On an article by A.I. Golomolzin, T.V. Kapitanov and others, entitled "Reduce unnecessary volume of major mine workings." Gor. zhur. no.5:78-79 My '58. (MIRA 11:6)

1.Sibirskoye otdeleniye Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy zolotо-platinovoy promyshlennosti (for Kulakov).
2.Unipromed' (for Latskiy, Mingalev).
(Mining engineering)
(Golomolzin, A.I.) (Kapitanov, T.V.)

LATSKIY, V.I., inzh.; ZIMIN, V.A., inzh.

Equipment for charging deep holes. Bezop.truda v prom. 3 no.9:32-33 S '59. (MIRA 13:2)
(Blasting)

CHUVIN, V.P.; KULIKOV, O.T., inzh.; LADIN, M.N., inzh.; LATSKIY, V.I., inzh.; ZIMIN, V.A., inzh.; LEVCHENKO, K.P., inzh.; LEVIN, S.S., inzh.; SERGEYEV, V.V., inzh.

"Ural-61" boring machine. Gor.zhur. no.2:53-55 F '64.
(MIRA 17:4)

1. Glavnyy instruktor Magnitogorskogo zavoda gornogo oborudovaniya (for Chuvin). 2. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya, Sverdlovsk (for Latskiy, Zimin, Levchenko, Levin, Sergeyev).

LATSKIY, V.I.; DERYAGIN, A.P.

New machines for the mining industry from the "NIPIGormash" Institute. Gor. zhur. no.7:47-49 Jl '64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo mashinostroyeniya, Sverdlovsk.

LATSKIY, V.I.; YANKELEVICH, M.D.; RYSEV, G.S.

Review of the book by K.S. Gurkov, IA.B. Kal'nitskii, A.D. Kostylev, P.A. Mikhirev, I.M. Press, G.V. Rodionov, A.V. Sobol', and V.V. Soroko, "Loading machinery for loose and lump materials." Gor. zhur. no.8:78 Ag '64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo mashinostroyeniya, Sverdlovsk.

ACCESSION NR: AT4036061 S/2781/63/000/003/0211/0216

AUTHORS: Il'yenko, B. P.; Zy*kov, V. G.; Lats'ko, Ye. M.; Tolok, V. T.

TITLE: Measurement of the twist angle and turning angle of a force line in a system with a helical magnetic field

SOURCE: Konferentsiya po fizike plazmy* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy* i problemy* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady* konferentsii, no. 3. Kiev, Izd-vo AN UkrSSR, 1963, 211-216

TOPIC TAGS: magnetic mirror, plasma confinement, magnetic field, magnetic pinch, plasma magnetic field interaction, electron beam, charged particle motion

ABSTRACT: The work described is a continuation of earlier experi-

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ACCESSION NR: AT4036061

ments on the confinement of plasma in traps of the stellarator type (ZhTF v. 31, 1289, 1961 and v. 32, 1190, 1962). The paper is devoted to an experimental investigation of the twist angle and turning angle in systems with helical magnetic fields, using a vacuum chamber 9 cm in diameter and 140 cm long (straight copper tube). The longitudinal magnetic field was produced by 12 single-layer coils and had a maximum in the axial direction of $3.4 \times 10^4$ A/m. The charged particles were confined in the stellarator by external magnetic field in which each force line was gradually wrapped around the axial line of the chamber. The twist angle of the force lines were measured with the aid of a rotating electron gun, the construction of which is described elsewhere (ZhETF, v. 32, 1190, 1962). The measurement results were compared (in an axial magnetic field $3.4 \times 10^4$ A/m and at a current of 440 A) with the theoretical formula. The force-line rotation angle was measured on the curved section of the stellarator model in a longitudinal magnetic field 7.2 x $\times 10^4$ A/m and at a current of 1100 A in the coil. The measurements

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ACCESSION NR: AT4036061

have shown that the angular rotation of the beams on the external side of the curvilinear section is larger than on the external side. This difference does not affect the motion of the particles in the closed system, since the average turning angle remains the same and depends only on the radius. The measurement results showed satisfactory agreement with the calculated data. Orig. art. has: 7 figures and 2 formulas.

ASSOCIATION: None

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| SUBMITTED: 00 | DATE ACQ: 21May64 | ENCL: 02 |
| SUB CODE: ME | NR REF SOV: 004 | OTHER: 000 |

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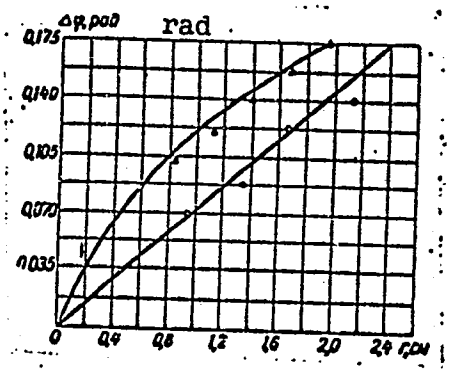
ACCESSION NR: AT4036061

ENCLOSURE: 03




Dependence of twist angle on the radius

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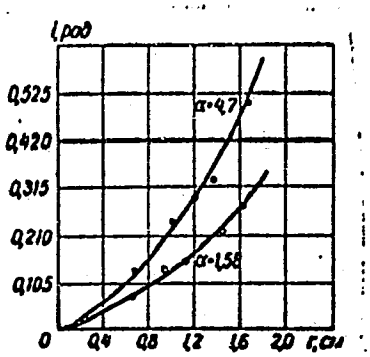
ACCESSION NR: AT4036061

ENCLOSURE: 02




Dependence of turning angle on the radius

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L 12862-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m) IJP(c) AT

ACC NR: AT5022298 SOURCE CODE: UR/3137/64/000/048/0001/0015

AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. M.; Zalkind, V. M.; Zykov, V. G.; Tolok, V. T.

ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut Akademiya nauk UkrSSR)

TITLE: Investigation of a plasmoid moving in a toroidal magnetic field

SOURCE: AN UkrSSR. Fiziko-tekhnicheskiy institut. Doklady, no. 048/P-007, 1964. Issledovaniye plazmennogo sgustka, dvizhushchegosya v toroidal'nom magnitom pole, 1-15

TOPIC TAGS: plasmoid, plasma magnetic field, plasma density, plasma injection

ABSTRACT: The present paper is a continuation of an investigation of electrical fields in plasmoids moving in curved magnetic fields. Fig. 1 shows the general view of the experimental apparatus used in the investigation. The maximum magnetic field was 200 ka/m, length of vacuum tube was 252 cm, effective radius of spiral windings was 5.4 cm. The plasma was injected from conical plasma sources. Battery capacity was

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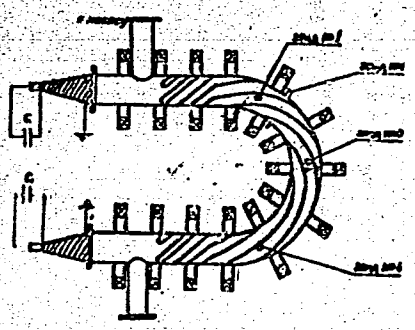

Fig. 1.

3 μf and discharge time 6.5 μsec. Plasma density injected by the source was not less than $10^{13}$ $cm^{-3}$. To measure the difference of potentials between two points in the plasma, two electrostatic probes were used: one grounded and located close to the wall of the chamber and the second moving along the cross section of the vacuum chamber. Measurements of the $V_z$ component of the field was taken in the middle of toroidal portion. The Z-direction is parallel to the axis through the origin of the large radius of curvature. It is confirmed that component $V_z$ is formed due to the separation of charges resulting from the drift forces. It was noticed that in the curved section, the components of the plasmoid's radial polarization were equal to the $V_z$ component. Later, the $V_z$ component dominated the other two components. Measurements confirm the fact that the magnetic field of spiral type improves the passing of plasmoids by about one order of magnitude. Orig. art. has: 13 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 005/ OTH REF: 001

Card 2/2 HW

L 3612-66 EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) AT

ACCESSION NR: AP5024035 UR/0057/65/035/009/1594/1597

533.9

AUTHOR: Il'yenko, B.P.; Lats'ko, Ye.M.; Zalkind, V.M.; Zykiv, V.G. 44,55 B

TITLE: Investigation of the polarization of a plasma moving in a helical magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1594-1597

TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field, helical magnetic field

ABSTRACT: The authors have investigated the effect of an additional triple helical magnetic field on the polarization of plasmas moving in a toroidal magnetic field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 cm radius U-shaped copper drift tube by suitable windings powered with dc generators. The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 80 cm long. The helical field was produced by a 134 cm reciprocal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kA. Plasmas with ion densities exceeding $10^{13}$ $cm^{-3}$ were inject at one end by a conical plasma gun. The electric (polarization) field in the plasma was measured with a plane probe at the exit from the toroidal section; this probe could be rotated in

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ACCESSION NR: AP5024035

azimuth in order accurately to determine the direction of the polarization. In the absence of the helical field, the polarization vector rotated through an angle of $\pi/2$ when the longitudinal field was reversed; this behavior is in agreement with theory (N.A.Khizhnyak. Fizika plazmy i problemy upravleniya termoyadernogo sinteza, No. 4, Izd. AN USSR, Kiyev, 1962). Application of the helical field did not decrease the polarization but rotated its direction through an angle corresponding to the rotation of the lines of force; this rotation was $\pi/3$ radians when the longitudinal field strength was 160 kA/m and the current in the helical winding was 3 kA. The density of the plasmas at the exit from the toroidal section was measured with a screened probe. In the absence of the helical field the plasma density was approximately $8 \times 10^{10}$ $cm^{-3}$ when the longitudinal field strength was 40 kA/m and $6 \times 10^{11}$ $cm^{-3}$ when the longitudinal field strength was 200 kA/m. Application of the helical field (when the longitudinal field was 56 kA/m) increased the plasma density at the exit from the toroidal section by as much as a factor 10. This increase was greater for the slower components of the plasma burst than for the faster components. Orig. art. has: 1 formula and 8 figures.

ASSOCIATION: none

SUBMITTED: 18Dec64 ENCL: 00 SUB CODE: ME

NR REF SOV: 003 OTHER: 000

Card 2/2

L 3611-66 EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) AT

ACCESSION NR: AP5024036 UR/0057/65/035/009/1598/1601

AUTHOR: Il'yenko, B.P.; Lats'ko, Ye.M.; Zalkind, V.M.; Zykov, V.G.; Tolok, V.T.

TITLE: Investigation of the polarization of a plasma moving in a toroidal magnetic field

SOURCE: Zurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1598-1601

TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field

ABSTRACT: The authors measured the polarization of plasmas moving in a toroidal magnetic field. The magnetic field (up to 200 kA/m) was produced in a U-shaped copper drift tube (diameter not given). The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 60 cm long. Plasmas with ion densities exceeding $10^{13}$ cm$^{-3}$ were injected at one end of the drift tube with a conical plasma gun powered by the 8-12 kV 6.5 μ sec discharge of a 3 μfd capacitor. The charged particle density of the injected plasmas was not less than $10^{13}$ cm$^{-3}$. The electric field polarization in the plasma was measured with probes at the exit from the toroidal section. The polarization field had components in the direction

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L 3611-66

ACCESSION NR: AP5024036

of the large radius of the torus and in the direction of the axis of the torus. The axial component changed sign when the direction of the longitudinal field was reversed, and the component did not. The distribution of the polarization field across the section of the drift tube and the variation of the polarization field with the longitudinal magnetic field strength were measured and are presented graphically. By comparing the time of maximum polarization with that at which a 3 cm wave crossing the drift tube was cut off by the plasma , it was established that the polarization was confined almost entirely to the more rapid, less dense leading portion of the plasma burst. Orig. art. has: 9 figures.

ASSOCIATION: none

SUBMITTED: 18Dec64 ENCL: 00 SUB CODE: ME

NR REF SOV: 002 OTHER: 002

Card 2/2

L 3610-66 EEC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) AT
ACCESSION NR: AP5024037 UR/0057/65/035/009/1601/1605 51
533.9 44,55 44,55 44,55 44,55
AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. M.; Zalkind, V. M.; Zykov, V. G.; Tolok, V. T. 44,55 B

TITLE: Investigation of the polarization of plasmas moving in magnetic fields of opposite curvatures 21,44,55

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1601-1605

TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field,

ABSTRACT: The authors measured the polarization of plasmas moving in a toroidal magnetic field, using the apparatus described in the two accompanying papers (ZhTF 35, 1598, 1601, 1965 [see abstracts AP5024035 and AP5024036]) and, in addition, a 7.4 cm diameter S-shaped copper drift tube consisting of two half-tori of 35 cm large radius joined by a 20 cm long straight section. A longitudinal magnetic field of 200 kA/m was maintained in both drift tubes. Plasmas could be injected at either or both ends of both drift tubes by means of conical plasma guns. The polarization of the plasmas was measured with probes located at the center of the toroidal section of the U-shaped drift tube and in the straight section joining the

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two half-tori of the S-shaped drift tube. The polarization is analyzed in terms of three components $V_z$, $V_R$, and $V_r$: $V_z$ is parallel to the axis of the torus, $V_R$ is in the direction of the large radius of the torus, and $V_r$ is in the plane of $V_z$ and $V_R$ and is directed away from the axis of the drift tube (along the small radius of the torus). It was found that $V_z$ changes sign when the direction of the magnetic field is reversed but not when the direction of motion of the plasma through the U-shaped drift tube is reversed without reversing the field. When the direction of motion of the plasma through the S-shaped drift tube was reversed, however, the $V_z$ component of the polarization measured in the straight section joining the two half-tori changes sign. When two oppositely moving plasmas collided in the center of the U-shaped drift tube the value of $V_z$ was approximately the same as when only one plasma was present. When two oppositely moving plasmas collided in the straight section joining the two half-tori of the S-shaped drift tube, the $V_z$ polarization components of the two plasmas canceled each other and only $V_r$ was measured. The distributions of $V_z$ and $V_r$ across the drift tube are presented graphically. It was found that $V_z$ and $V_r$ are of comparable magnitude in the fast leading edge of the plasma burst, but that $V_z$ predominates in the tail. Orig. art. has: 8 figures.

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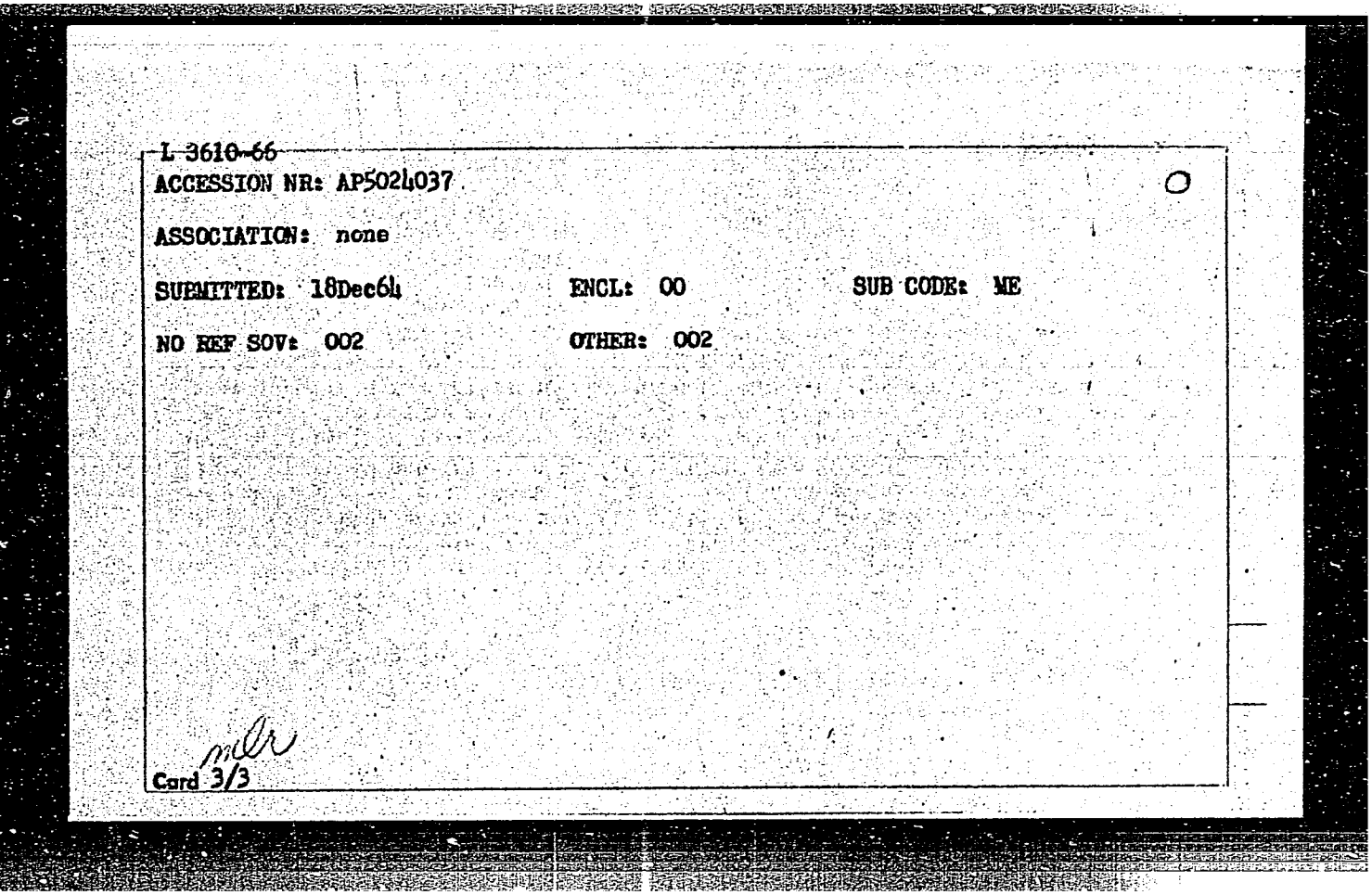

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ACCESSION NR: AP5024037 O

ASSOCIATION: none

SUBMITTED: 18Dec64 ENCL: 00 SUB CODE: ME

NO REF SOV: 002 OTHER: 002

Card 3/3

L 41067-66 EWI(j) IJP(c) GD/AT

ACC NR: AT6020410 (N) SOURCE CODE: UR/0000/65/000/000/0129/0136

AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. M.; Zalkind, V. M.; Zykov, V. G.; Tolok, V. T.

ORG: none

TITLE: Investigation of plasmoids moving in a toroidal magnetic field

SOURCE: AN UkrSSR. Issledovaniye plazmennykh sgustkov (Study of plasma clusters). Kiev, Naukovo dumka, 1965, 129-136

TOPIC TAGS: plasmoid, plasma magnetic field, plasma injection, plasma gun, plasma pinch, helical magnetic field

ABSTRACT: This work reports on three experimental studies of electric fields in plasma. Electric fields arising due to polarization in plasma in 1) curved magnetic fields with varying radii of curvature, 2) in a toroidal field where two plasmoids collide and 3) in a case where a plasmoid moves along the toroidal field, are studied. The measurements were performed with two probes, one near the vessel wall and the other located at a given point in the plasma. The plasma was generated in a conical pinch gun and injected into the working region. The experiments show that polarization fields consist of the components along the toroid's major and minor radii and along the toroidal axis. Initially, the latter two components dominate in the main part of the plasmoid; subsequently, only the axial component is dominant. Plasma density was

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ACC NR: AT6020410

also found to increase by an order of magnitude at the exit from the helical magnetic field of a curved toroidal section. Data for the various cases showing both space and time dependence of the various quantities measured are graphed. Orig. art. has: 9 figures.

SUB CODE: 20/ SUBM DATE: 11Nov65/ ORIG REF: 003/ OTH REF: 001

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41565

S/057/62/032/010/003/010
B104/B102

26.2371

AUTHORS: Zykov, V. G., Il'yenko, B. P., Lats'ko, Ye. M., Stepanenko, I. A., Ternopol, A. M., Tolok, V. T., and Sinel'nikov, K. D.

TITLE: Investigation into the properties of magnetic surfaces in systems with a helical magnetic field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 10, 1962, 1190-1196

TEXT: The shapes of the magnetic surfaces in systems with stabilizing helical windings were studied by the method of the preceding electron beam, developed by F. V. Karmanov and P. A. Cheremnykh at the Institut atomnoy energii im. I. V. Kurchatova (Institute of Atomic Energy imeni I. V. Kurchatov) and by injecting plasma clouds into a right cylinder with a three-turn coil, or by injecting them into the curvilinear section of a stellarator model. In the experiments with the preceding electron beam a fluorescent screen was used in the right cylinder (Fig. 1); in the experiments with the plasma clouds special targets were used, superficially charged by the plasma particles. If no current flows in the helical windings, the electron beam forms concentric circles on the fluorescent

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screen. As the amperage in the helical winding increases, the circles degenerate to triangles, whose sides later bend inward. The largest and smallest radii of the separatrices measured as functions of $I_{hel}/H_z$, and the distortions of the magnetic surfaces caused by deviations of the magnetic axis from the geometric axis, are in agreement with theoretical results. The cross sections of the plasma clouds were studied as functions of $I_{hel}/H_z$ in clouds completely filling the cross section of the tube, and in clouds partially screened by diaphragms. In the former case two types of particles were distinguished, one type remaining trapped in the central part of the cloud bounded by a separatrix, the other escaping from the confinement region. In the second case all plasma particles remained in the confinement region if the radius of the separatrix exceeded that of the clouds, but if it was smaller the same result was obtained as in the first case. The separatrix is a function of the confining induction and of the amperage in the helical windings. This agrees with the theory. The magnetic surfaces in the curvilinear chamber of a stellarator model was studied by the same methods, yielding practically the same results with the electron beam as those obtained with the right cylinder. It is only in the

initial stage of the discharge that the electrons escape to the copper-walls of the vacuum chamber (diameter 80 mm) which was shaped as a semi-tore (mean radius of curvature 42 cm). It is concluded that at low velocities and small densities the plasma particles move along the lines of the magnetic field. There are 8 figures.

SUBMITTED: November 29, 1961

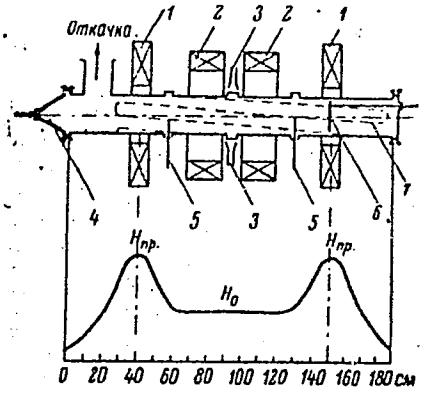


Fig. 1. Experimental arrangement (right cylinder).
Legend: (1) coils producing the magnetic mirror field; (2) coils producing the main field; (3) mouthpiece for 3-cm waves; (4) conic plasma gun; (5) electric probes; (6) fluorescent screen; (7) helical winding.

FEDOROVA, T.I.; CHERNOVA, Ye.I.; ORLOVA, I.N.; LATSKOVA, V.Ye.

New data on the stratigraphy of Paleozoic sediments in the Volga Valley portions of Saratov and Stalingrad Provinces. Trudy VNIGNI no.28:71-77 '60. (MIRA14:4)

1. Nizhne-Volzhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo geolog-razvedochnogo neftyanogo instituta.
(Volga Valley--Geology, Stratigraphic)

DALMATSKAYA, I.I.; LATSKOVA, V.Ye.; ORLOVA, I.N.; RAUZER-CHERNOUSOVA, D.M.; REYTLINGER, Ye.A.; SAFONOVA, T.P.; SEMIKHATOVA, Ye.N.; CHERNOVA, Ye.I.; SHATSKIY, N.S., akademik, glav. red.; MENNER, V.V., zam glav. red.; SEMIKHATOVA, S.V., prof., red. toma; KATLYAREVSKAYA, P.S., red. izd-va; NOVICHKOVA, N.D., tekhn. red.

[Regional stratigraphy of the U.S.S.R.] Regional'naia stratigrafiia SSSR. Glav. red. N.S.Shatskii. Moskva. Vol.5. [Stratigraphy of the Middle Carboniferous sediments of the central and eastern parts of the Russian platform based on the studies of foraminifera] Stratigrafiia srednekamennougol'nykh otlozhenii tsentral'noi i vostochnoi chasti Russkoi platformy (na osnove izucheniia foraminifer). Pt.2. [Volga and Koma Valleys] Povolzh'e i Prikam'e. 1961. 355 p. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut (for Dalmatskaya). 2. Institut geologicheskikh nauk AN SSSR (for Rauzer-Chernousova, Reytlinger). 3. TSentral'naya nauchno-issledovatel'skaya laboratoriya Upravleniya neftyanoy promyshlennosti Permskogo Sovnarkhoza (for Safonova). 4. Nizhnevolzhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo geologorazvedochnogo neftyanogo instituta (for Latskova, Orlova, Chernova). 5. Rostovskiy gosudarstvennyy universitet (for Semikhatova, Ye.N.)

(Volga Valley--Paleontology, Stratigraphic)
(Kama Valley--Paleontology, Stratigraphic)

UL'MISHEK, G.F.; KHENVIN, T.I.; LATSKOVA, V.Ye.; URUSOV, A.V.

Lower-Permian sediments of the western and northern parts of the north-Caspian oil- and gas-bearing basin. [Trudy] NIIneftegaza no.10:223-235 '63. (MIRA 18:3)

1. Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti; Nizhnevolzhskiy nauchno-issledovatel'skiy institut geologii i geofiziki i Volgogradskiy nauchno-issledovatel'skiy institut neftyanoy i gazovoy promyshlennosti.

LATSKOVA, V.Ye.

Conditions governing the formation of Tatarian sediments in the trans-Volga portion of Saratov Province. Trudy NVNIIGG no.1:77-78 '64. (MIRA 18:6)

DUBOVSKOY, I.T.; LATSKOVA, V.Ye.; MARINBERG, S.V.; URUSOV, A.V.; UL'MISHEK, G.F.; KHENVIN, T.I.

Upper-Permian and Triassic sediments of the western and northern parts of the north-Caspian oil- and gas-bearing basin. [Trudy] NIIneftegaza no.10:236-256 '63. (MIRA 18:3)

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LATSUK, N.A.

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Title tr.: Air support for partisan operations.
CSt-H

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LATUGIN, G.M., gornyy inzh.

Mine testing of the KM-87 machinery unit. Ugol' Ukr. no.6:29-30
Je '61. (MIRA 14:7)

1. Trest Voroshilovugol'.
(Coal mining machinery—Testing)

LATUKHIN, Boris Mikhaylovich; KNYAZEV, V.V., red.

[Mechanization of fitting operations] Mekhanizatsiia slesarnykh operatsii. Gor'kii, Gor'kovskoe knizhnoe izd-vo, 1963. 117 p. (MIRA 17:8)

LATUKHIN, G.I.; GAGIN, N.R.; CHERKASOV, A.D.

Well head automatic packer. Neftianik 5 no.10:20-21 O '60.
(MIRA 13:10)

(Packing (Mechanical engineering))

ALEKSEYEV, Leonid Grigor'yevich; LATUKHINA, Ye.I., ved. red.;
VOROB'YEVA, L.V., tekhn. red.

[Modernizing the hydraulic part of oil-well pumps]Opyt modernizatsii gidravlicheskoi chasti burovykh nasosov. Moskva, Gostoptekhizdat, 1962. 68 p. (MIRA 15:8)
(Oil well pumps)

PROK, Iosif Yudimovich; BROYDE, I.M., red.; LATUKHINA, Ye.I., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Lowering the cost and increasing labor productivity in petroleum production; practice of Azerbaijan petroleum workers] Snizhenie sebestoimosti i povyshenie proizvoditel'nosti truda v dobyche nefti; opyt neftianikov Azerbaidzhana. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 82 p. (MIRA 13:9)
(Azerbaijan--Petroleum industry--Costs)

BORISOV, Pavel Aref'yevich; RYZHENKOV, Ivan Ivanovich; SIROTINA, Yelena Yakovlevna; TKACHENKO, Oksana Vladimirovna; LATUKHINA, Ye.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Economic efficiency of increasing the rate of petroleum production] Ekonomicheskaia effektivnost' intensifikatsii dobychi nefti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 90 p. (MIRA 14:3)
(Oil fields--Production methods)

BELOV, Irinarkh Georgiyevich; LATUKHINA, Ye.I., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Investigating the performance of deep-well pumps by means of a dynamograph] Issledovanie raboty glubinnykh nasosov dinamografom. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 127 p. (MIRA 13:11)
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LATUKHINA, Ye. I.

TITKOV, Nikolay Iosifovich; GAYVORONSKIY, Al'bert Anatol'yevich; LATUKHINA, Ye.I., vedushchiy red.; GANINA, L.V., tekhn.red.

[Sealing absorption horizons in well drilling] Izoliatsiia pogloshchaiushchikh gorizontov pri burenii skvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 184 p. (MIRA 13:9)

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BROYDE, Isaak Markovich; BIRMAN, A.M., red.; LATUKHINA, Ye.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Financing the petroleum and gas industries] Finansirovanie neftianoi i gazovoi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 378 p.
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(Petroleum industry--Finance) (Gas industry--Finance)

YATROV, Sergey Nikolayevich; GOL'DSHTEYN, Izrail Yefremovich; GLUSHCHENKO, Yekaterina Ivanovna; LATUKHINA, Ye.I., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Natural drilling fluids for drilling gas wells under complex conditions] Estestvennye promyvochnye zhidkosti dlia bureniia gazovykh skvazhin v oslozhnennykh usloviiakh. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 41 p. (MIRA 14:7)
(Shebelinka region--Drilling fluids)

SARKISOV, Georgiy Martynovich; LATUKHINA, Ye.I., vedushchiy red.; MUKHINA, E.A., tekhn. red.

[Calculating casing pipes and columns] Raschety obsadnykh trub i kolonn. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 242 p. (MIRA 14:7)

(Oil well casing)

SAAKOV, Mikhail Artem'yevich; GUREVICH, Ya.D., red.; LATUKHINA, Ye.I., vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Wages in the enterprises of the petroleum and gas industries] Oplata truda na predpriiatiiakh neftianoi i gazovoi promyshlennosti; osnovnye usloviia. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 178 p. (MIRA 14:11)
(Wages--Petroleum industry)
(Wages--Gas industry)

MIKERIN, Boris Prokop'yevich; TERZI, V.P.; LATUKHINA, Ye.I., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Injecting liquefied hydrocarbon gases into oil layers; practice of oil workers of the Krasnodar Economic Region] Nagnetanie szhizhennykh uglevodorodnykh gazov v neftianye plasty; opyt neftianikov Krasnodarskogo ekonomicheskogo raiona. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 61 p. (MIRA 15:2)
(Krasnodar Territory--Oil fields--Production methods)

YANTTSEN, Boris Fedorovich; VAYNER, I.Ya., red.; LATUKHINA, Ye.I., ved. red.; VOROB'YEVA, L.V., tekhn. red.

[Planning and analyzing basic technical and economic drilling indices] Planirovanie i analiz osnovnykh tekhniko-ekonomicheskikh pokazatelei bureniia. Moskva, Gostoptekhizdat, 1962. 74 p. (MIRA 15:7)
(Oil well drilling)

PETROCHENKO, Petr Fedorovich, kand. ekon. nauk, red.; IOFFE, Isaak Shimelevich; KURASHOV, Viktor Andreyevich; LATUKHINA, Ye.I., ved. red.

[Manual for the establishment of norms] Spravochnik normirovshchika. Pod obshchei red. P.F.Petrochenko. Moskva, Gostoptekhizdat, 1962. 321 p. (MIRA 15:4)
(Petroleum industry--Production standards)

SAAKOV, M.A., red.; LATUKHINA, Ye.I., ved. red.; BASHMAKOV, G.M., tekhn. red.

[Work practice of formemost workers in speed boring and derrick construction] Opyt peredovikov skorostnogo bureniia i vyshkostroeniia. Moskva, Gostoptekhizdat, 1962. 114 p. (MIRA 15:6)

1. Profsoyuz rabochikh neftyanoy i khimicheskoy promyshlennosti. (Oil well drilling)

KRISTEA, N.[Cristea, N.], doktor inzh.; AKOSH, Ban[Acos, Ban (translator)]; PILATOVSKIY, V.P., doktor fiz.-mat. nauk, red.; LATUKHINA, Ye.I., ved. red.; POLOSINA, A.S., tekhn. red.

[Underground hydraulics]Podzemnaia gidravlika. Moskva, Gostoptekhizdat. Vol.2. 1962. 490 p. Translated from the Rumanian. (Oil reservoir engineering) (MIRA 15:11)

UMANSKIY, Lev Mikhaylovich; BROYDE, I.M., red.; LATUKHINA, Ye.I., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Ways to reduce costs in the petroleum-producing industry] Puti snizheniia sebestoimosti v neftedobyvaiushchei promyshlennosti. Moskva, Gostoptekhizdat, 1962. 157 p. (MIRA 16:1)
(Petroleum industry—Costs)

YES'MAN, Bogdan Iosifovich; DEDUSENKO, Galina Yakovlevna; YAISHNIKOVA, Yevstol'ya Aleksandrovna; LATUKHINA, Ye.I., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Effect of temperature on deep drilling processes]Vliianie temperatury na protsess bureniia glubokikh skvazhin. [By] B.I.Es'man i dr. Moskva, Gostoptekhizdat, 1962. 150 p. (MIRA 16:2)

(Oil wells—Thermal properties)

BUGROV, Valentin Aleksandrovich; STRIZHENOVA, Nina Fedorovna; BRENTS, A.D., kand. ekon. nauk, retsenzent; GORKIN, S.F., kand. ekon. nauk, retsenzent; LATUKHINA, Ye.I., ved. red.; STAROSTINA, L.D., tekhn. red.

[Economics, organization, and planning of petroleum production enterprises]Ekonomika, organizatsiia i planirovanie neftedobyvaiushchikh predpriiatii. Moskva, Gostoptekhizdat, 1962. 333 p. (MIRA 16:4)

(Oil fields—Production methods)

YAKOVLEV, Vitaliy Arkad'yevich; LATUKHINA, Ye.I., ved. red.; VORONOVA, V.V., tekhn. red.

[Water exclusion in air and gas drilling; drilling practices in foreign countries]Bor'ba s vodoproiavleniemi pri burenii skvazhin s produvkoi zavoia; zarubezhnyi opyt. Moskva, Gostoptekhizdat, 1962. 52 p. (MIRA 16:4)
(Oil well drilling)

KABARDIN, Gennadiy Aleksandrovich; ZAITOV, Marat Mansurovich; LATUKHINA, Ye.I., ved.red.; POLOSINA, A.S., tekhn. red.

[Using a single pipe for gathering oil and gas] Odnotrubnyi sbor produktsii skvazhin. Moskva, Gostoptekhizdat, 1963. 83 p. (MIRA 16:10)
(Petroleum--Transportation)
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LOSEV, Mikhail Timofeyevich; RYZHENKOV, Ivan Ivanovich; KURILKIN, Leonid Romanovich; KOLEMASOVA, Irina Maksimovna; TIKHONOVA, Lyudmila Nikolayevna; LATUKHINA, Ye.I., ved. red.; POLOSINA, A.S., tekhn. red.

[Labor productivity in petroleum production] Proizvoditel'nost' truda v dobyche nefti. Moskva, Gostoptekhizdat, 1963. 152 p. (MIRA 16:10)
(Petroleum production—Labor productivity)

VASIL'YEV, Yuriy Sergeyevich; SIVOKHINA, Nataliya Borisovna; BRONZOV, Anatoliy Samsonovich; KALININ, A.G., red.; LATUKHINA, Ye.I., ved. red.; VORONOVA, V.V., tekhn.red.

[Tolerable declination of boreholes from the design] Dopustimye otkloneniia stvolov skvazhin ot proekta. Moskva, Gostoptekhizdat, 1963. 152 p. (MIRA 16:10)
(Boring) (Tolerance (Engineering))

SAVEL'YEV, Konstantin Mikhaylovich; MOLOSTOV, V.S., inzh., retsenzent; GRAYFER, V.I., inzh., retsenzent; LATUKHINA, Ye.I., ved. red.; VORONOVA, V.V., tekhn. red.

[Oil-field industry] Neftepromyslovoe khoziaistvo. Moskva, Gostoptekhizdat, 1963. 207 p. (MIRA 16:8)

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(Petroleum production)

VAKHITOV, Gadel' Galyautdinovich; LATUKHINA, Ye.I., ved. red.; STAROSTINA, L.D., tekhn. red.

[Effective means for solving the production problems in nonuniform oil-and water-bearing layers by the finite difference method] Effektivnye sposoby resheniia zadach razrabotki neodnorodnykh neftevodonosnykh plastov metodom konechnykh raznostei. Moskva, Gostoptekhizdat, 1963. 215 p. (MIRA 16:11)
(Petroleum engineering)

KALININ, Anatoliy Georgiyevich; VOZDVIZHENSKIY, B.I., red.; LATUKHINA, Ye.I., ved. red.; VORONOVA, V.V., tekhn. red.

[Deflection of boreholes] Iskrivlenie burovykh skvazhin. Moskva, Gostoptekhizdat, 1963. 307 p. (MIRA 16:11)
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VASIL'YEV, Viktor Grigor'yevich; CHERSKIY, Nikolay Vasil'yevich; TREBIN, F.A., doktor tekhn. nauk, prof., red.; LATUKHINA, Ye.I., ved. red.

[Testing prospecting wells] Ispytanie razvedochnykh skvazhin. Moskva, Izd-vo "Nedra," 1964. 164 p. (MIRA 17:4)

BOKSERMAN, Yu.I.; LATUKHINA, Ye.I., ved. red.

[Methods for developing new equipment in the gas industry of the Soviet Union] Puti razvitiia novoi tekhniki v gazovoi promyshlennosti SSSR. Moskva, Izd-vo "Nedra," 1964. 311 p.
(MIRA 17:5)

AMIYAN, Vartan Aleksandrovich; LATUKHINA, Ye.I., ved. red.

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(MIRA 17:8)

YASTREMSKAYA, Vera Borisovna; GORKIN, S.F., kand. ekon. nauk, retsenzent; BRENTS, A.D., red.; LATUKHINA, Ye.I., ved. red.

[Organization and planning of petroleum producing enterprises] Organizatsiia i planirovanie neftedobyvaiushchikh predpriiatii. Moskva, Nedra, 1964. 297 p. (MIRA 17:9)

GENKIN, Izrail' Borisovich; LATUKHINA, Ye.I., ved. red.

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SVERDLOV, Gelyariy Maksimovich; YAGUDIN, Roshid Yusupovich; KOVALENKO, B.M., red.; LATUKHINA, Ye.I., ved. red.

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"Rate of Fire of Machine Guns"

Voyennyy Vestnik, No. 7, 1954.

30(1) SOV/84-59-10-15/53

AUTHOR: Latukhin, S., Hero of the Soviet Union, Chairman

TITLE: Helping Livestock Raising

PERIODICAL: Grazhdanskaya aviatsiya, 1959, Nr 10, p 10 (USSR)

ABSTRACT: The author commends the personnel of the Archangel'sk airport for the help it has given his kolkhoz during the last 5 years. Airplanes helped to eliminate the shrubs on the pastures, fertilized the crops and grass, sprayed the pastures every 5 days with a solution of salt, which raised the appetite of the cattle and contributed to an increase in milk yield.

ASSOCIATION: Kolkhoz imeni vtoroy pyatiletki Primorskogo rayona (Kolkhoz imeni the Second Five Year Plan, Primorskiy Rayon)

Card 1/1

FOMICHEV, Petr Markovich. Prinimal uchastiye: SHAPOVALOV, Aleksandr Grigor'yevich; BROYDE, I.M., red.; LATUKHINA, Ye.I., vedushchiy red.; POLOSINA, A.S., tekhn.red.

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1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut.
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