Golovin, G. V.

FILATOV, A.N., professor; GOLOVIN, G.V., dotsent

Achievements in the field of blood transfusion in the U.S.S.R. and the role of Soviet surgeons in its development during the past 40 years. Vest.khir. 79 no.7:3-17 Jl '57. (MIRA 10:10)

1. Chlen-korrespondent AMN SSSR (for Filatov)
(BLOOD TRANSFUSION,
in Russia (Rus))

Golovin, G.V.

GOLOVIN, G.V., kand.med.nauk

Influence of hemoplastic rods on the regenerative process in experimental bone defects [with summary in English p.159]. Vest. khir. 79 no.10:86-97 O '57. (MIRA 10:12)

1. Iz khirurgicheskoy kliniki (zav. - prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi i kafedry patologicheskoy anatomii (zav. - prof. P.V.Sipovskiy) Leningradskogo instituta usovershenstvovaniya vrachey im. S.M.Kirova. Adres avtora: Leningrad, 2-ya Sovetskaya ul., d.16, Institut perelivaniya krovi.

(FRACTURES, exper.
hemoplastic rods insertion into bone cavity on osteosynthesis (Rus))
(SEROTHERAPY
hemoplastic rods insertion into bone cavity, eff. on osteosynthesis in exper. fract. (Rus))

GOLOVIN, G.V.

Stimulating effect of fibrin powder on the healing of experimental bone defects [with summary in English]. Eksper.khir. 3 no.2:49-54 Mr-Ap '58. (MIRA 11:4)

1. Iz khirurgicheskoy kliniki (zav.-prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi i kafedry patologicheskoy anatomii (zav.-prof. P.V. Sipovskiy) Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M.Kirova.

(FIBRIN, eff.
fibrin powder on bone tissue regen. in exper. bone dis. (Rus)
(BONE DISEASES, exper.
eff. of fibrin powder on bone tissue regen. in bone dis. (Rus)

GOLOVIN, G.V., starshiy nauchnyy sotrudnik

Clinical use of bone homografts preserved by cold. Akt.vop.perel. krovi no.6:8-11 '58. (MIRA 13:1)

1. Khirurgicheskaya klinika Leningradskogo instituta perelivaniya krovi (nav. klinikoy - chlen-korrespondent AMN SSSR prof. A.N. Filatov).

(BONE GRAFTING)

GOLOVIN, G.V., starshiy nauchnyy sotrudnik

Method of intramedullary osteosynthesis of the tibia with preserved tubular bone homografts. Akt.vop.perel.krovi no.6:11-13 '58. (MIRA 13:1)

1. Khirurgicheskaya klinika (zav. - chlen-korrespondent AMN SSSR, prof. A.N. Filatov) Leningradskogo instituta perelivaniya krovi.
(BONE GRAFTING)

GOLOVIN, G.V., starshiy nauchnyy sotrudnik

Technic of gluing the foreleg bones of animals with "osteoplast." Akt.vop.perel.krovi no.6:13-14 '58. (MIRA 13:1)

1. Khirurgicheskaya klinika (zav. - chlen-korrespondent AMN SSSR prof. A.N. Filatov) Leningradskogo instituta perelivaniya krovi.
(BONE GRAFTING)

GOLOVIN, G.V., kand.med.nauk (Leningrad)

Nineteenth Plenum of the learned councils of institutes of traumatology and orthopedia (in conjunction with the All-Union Society of Orthopedists and Traumatologists) devoted to the 40th anniversary of the Great October Socialist Revolution. Vest.khir. 80 no.6:140-146 Je '58 (MIRA 11:7)

(ORTHOPEDIA--CONGRESSES)

GOLOVIN, G.V., kand.med.nauk (Leningrad)

First All-Union Conference on Tissue Incompatibility and Organ and Tissue Transplantation. Vest.khir. 81 no.8:138-144 Ag '58
(TRANSPLANTATION OF ORGANS, TISSUES, ETC) (MIRA 11:9)

GOLOVIN, G.V., kand.med.nauk

Late results of bone union with osteoplast in experiments [with summary in English]. Vest.khir. 81 no.10:67-71 O '58 (MIRA 11:11)

1. Iz khirurgicheskoy kliniki (zav. - prof. A.N. Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi. Adres avtora: Leningrad, 2-ya Sovetskaya ul., d. 16, Institut perelivaniya krovi.

(BONE AND BONES, surg.
eff. of osteoplast glue on bone union in rabbits (Rus))
(FRACTURES, exper.
eff. of osteoplast glue on bone union in rabbits (Rus))

GOLOVIN, G.V., kand.med.nauk (Leningrad)

First All-Russian Conference of Workers in the Blood Service.
Vest.khir. 81 no.10:146-151 O '58 (MIRA 11:11)
(BLOOD--COLLECTION AND PRESERVATION)

GOLOVIN, G.V.

Stimulating effect of sterilized blood serum (serum F) on the regeneration of experimental bone defects [with summary in English, p.62]. Probl.gemat. i perel.krovi 4 no.1:41-47 Ja-F '59.
(MIRA 12:2)

1. Iz khirurgicheskoy kliniki (zav. - chlen-korrespondent AMN SSSR prof. A.N. Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi i kafedry patologicheskoy anatomii (zav. - prof. P.V. Sipovskiy) Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M. Kirova.
(BONE AND BONES, physiol.
eff. of Filatov's serum on regen. (Rus))
(TISSUE THERAPY,
Filato's serum as biogenic stimulator, eff. on bone regen. (Rus))

GOLOVIN, G.V., kand.med.nauk (Leningrad)

"Use of different materials in plastic surgery for bone defects in the light of the phasic development of bone tissue regeneration and tissue in general" by I.L.Zaichenko. Reviewed by G.V.Golovin. Ortop., travm. i protez. 20 no.5:69-71 My '59. (MIRA 12:9)

(ORTHOPEDICS) (ZAICHENKO, I.L.)

GOLOVIN, G.V., kand.med.nauk (Leningrad)

First All-Russian Congress of Surgeons. Vest.khir. 82 no.4:140-147 Ap '59. (MIRA 12:6)
(SURGERY--CONGRESSES)

GOLOVIN, G.V., kand. med. nauk

"Acute purulent surgical diseases" by B.M. Khromov. Reviewed by G.V. Golovin. Vest. khir. 82 no.6:146-147 Je '59. (MIRA 12:8)
(INFECTION) (SURGERY, ASEPTIC AND ANTISEPTIC)
(KHROMOV, B.M.)

GOLOVIN, G.V., kand.med.nauk

Use of osteoplast for the gluing of bones in a clinic. Vest. khir. 83 no.7:45-53 Jl '59. (MIRA 12:11)

1. Iz khirurgicheskoy kliniki (zav. - prof.A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi. Adres avtora: Leningrad, 2-ya Sovetskaya ul., 16, Institut perelivaniya krovi.
(BONES--SURGERY) (RESORCINOL)

GOLOVIN, G.V., kand.med.nauk (Leningrad)

"Handbook of orthopedics" [in German]. Vol.2:"General orthopedics" by Hohmann, Hackenbroch, Lindemann. Reviewed by G.V. Golovin. Vest.khir. 83 no.10:150-151 O '59. (MIRA 13:2)
(ORTHOPEDIA) (HOHMANN) (HACKENBROCH) (LINDEMANN)

GOLOVIN, G.V., kand.meditsinskikh nauk (Leningrad)

Review of V.A. Chernavskii's "Femoral fractures and their treatment." Vest.khir. 83 no.11 N '59. (MIRA 13:4)
(FEMUR--FRACTURE) (CHERNAVSKII, V.A.)

GOLOVIN, G.V., kand.med.nauk (Leningrad)

"Acute surgical diseases of the abdominal cavity" by N.I. Gurevich. Reviewed by G.V. Golovin. Vest.khir. 83 no.12:105-108 D '59. (MIRA 13:5)

(ABDOMEN--SURGERY) (GUREVICH, N.I.)

FILATOV, Antonin Nikolayevich, prof., zasl. deyatel' nauki RSFSR; BERINGER, Yu.V.; GOLOVIN, G.V.; MEDVEDEV, P.M.; MIKHAYLOV, S.S., red.; SHEVCHENKO, F.Ya., tekhn. red.

[Transplantation and replacement of tissues and organs] Peresadki i zamesheniia tkanei i organov. Leningrad, Gos. izd-vo med. lit-ry Medgiz, Leningr. otd-nie, 1960. 323 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Filatov)
(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

GOLOVIN, G.N.; GERUSOV, Iu.N.; KONEVSKIY, A.G.; YAKOVLEV, A.S.

On the 60th birthday of Mikhail Konstantinovich Rodionov. Vest. khir. 84 no. 4:157 Ap '60. (MIRA 14:1)
(RODIONOV, MIKHAIL KONSTANTINOVICH, 1900-)

GOLOVIN, G.V., dotsent

Clinical value of an acoustic method in the diagnosis of interposition of the soft tissues in fractures. Vest.khir. 89 no.8:77-79 Ag '62. (MIRA 15:10)

1. Iz khirurgicheskoy kliniki (zav. - prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi.
(FRACTURES) (AUSCULATION)

GOLOVIN, G.V.; DEPP, M.Ye.

Antonin Nikolaevich Filatov; on his 60th birthday. Vest.khir. 89 no.9:140-141 S '62. (MIRA 15:12)
(FILATOV, ANTONIN NIKOLAEVICH, 1902-)

GOLOVIN, G.V., doktor med.nauk (Leningrad)

Book review. Zdravookhranenie 6 no.2:62-64 Mr-Ap'63.
(MIRA 16:10)

GOLOVIN, G.V., doktor med. nauk (Leningrad, S-24, 2-ya Sovetskaya, d. 16, kv.12);
ROMANOVA, A.M.

Removal and preservation of endocrine glands. Vest. khir. 91 no.11:128-135 N '63. (MIRA 17:12)

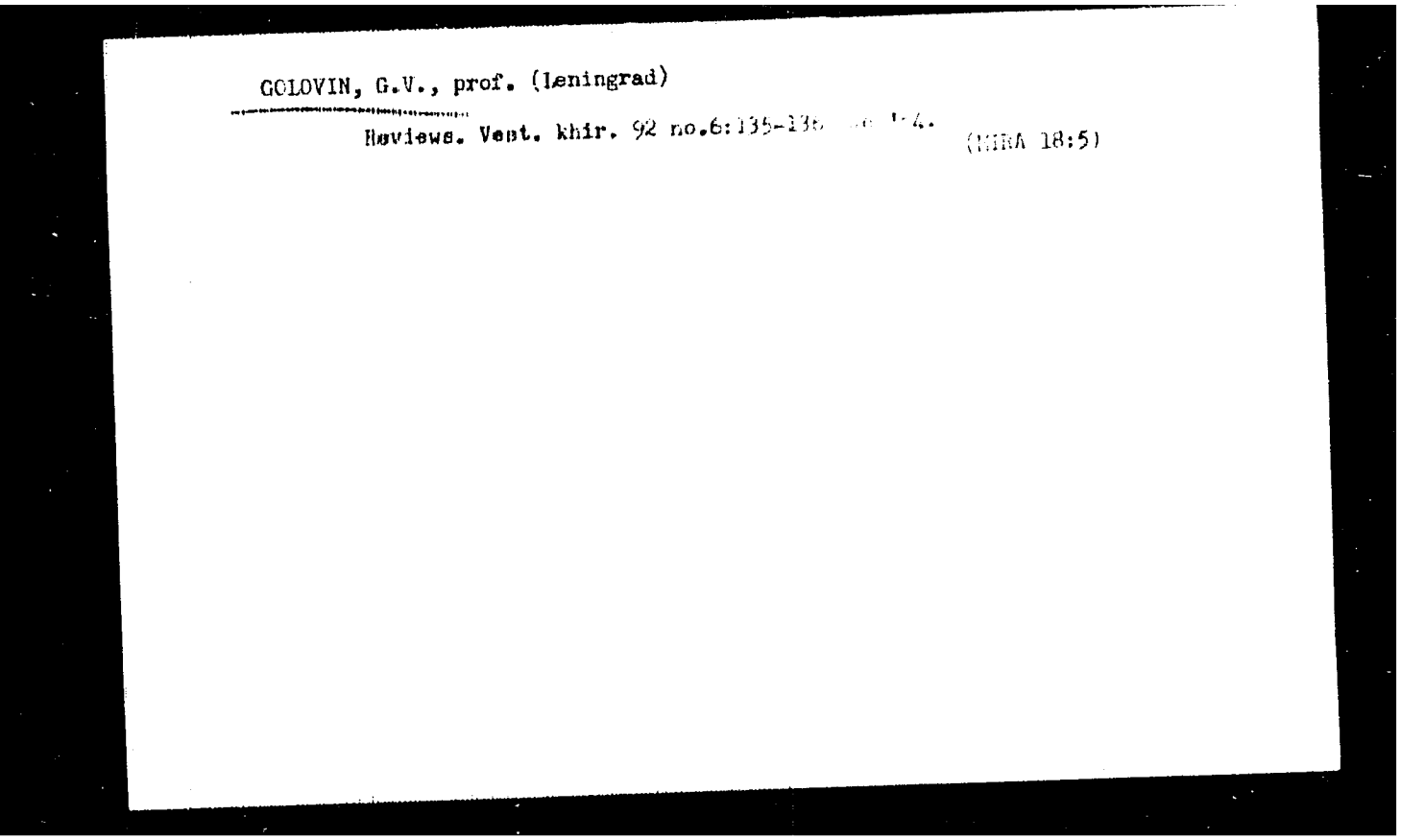
1. Khirurgicheskoy kliniki (zav. - prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi.

GOLOVIN, G.V., doktor med. nauk

Review of the book "Manual on surgical intervention for surgeons in rural local and district hospitals." Vest. Khir. 91 no.12: 104-106 D '63. (MIRA 17:9)

GOLOVIN, G.V., prof. (Leningrad); DUTKEVICH, I.G., kand.med.nauk (Leningrad)

Review of H. Gelbke's book "Restorative and plastic surgery." Vest. khir. 92 no.3:148-152 Mr '64. (MIRA 17:12)



GOLOVIN, G.V., prof. (Leningrad)

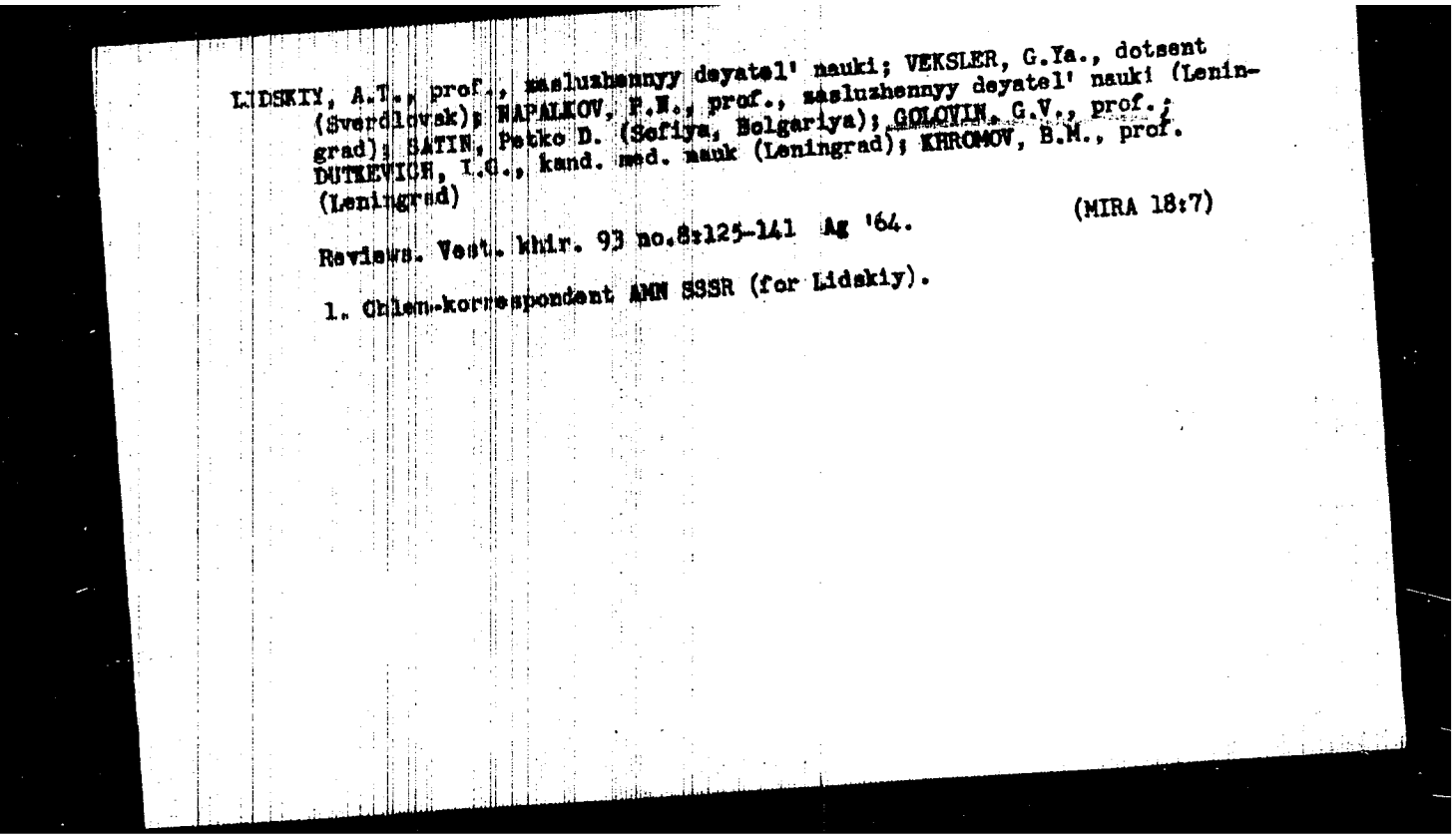
Reviews. Vest. khir. 92 no.6:135-136 '64. (MIRA 18:5)

GOLOVIN, Georgiy Vasil'yevich; KULESHOV, Yu.Ya., red.

[Problem of chemical osteosynthesis] Problema sklei-vaniia kostei. Leningrad, Meditsina, 1964. 113 p.
(MIRA 17:9)

MEDVEDEV, Petr Maksimovich, st. nauchn. sotr., kand. med. nauk;
GOLOVIN, G.V., red.

[Elephantiasis of the extremities and genitals] Slonovost' konechnostei i polovykh organov. Moskva, Medtsina, 1964. 189 p. (MIRA 17:5)



LIDSKIY, A.T., prof., zasluzhennyy deyatel' nauki; VEKSLER, G.Ya., dotsent (Sverdlovsk); NAPALKOV, P.N., prof., zasluzhennyy deyatel' nauki (Leningrad); SATIN, Petko D. (Sofiya, Bolgariya); GOLOVIN, G.V., prof.; DUTKEVICH, I.G., kand. med. nauk (Leningrad); KHROMOV, B.M., prof. (Leningrad)

Reviews. Vest. khir. 93 no.8:125-141 Ag '64. (MIRA 18:7)

1. Chlen-korrespondent AMN SSSR (for Lidskiy).

GOLOVIN, I.

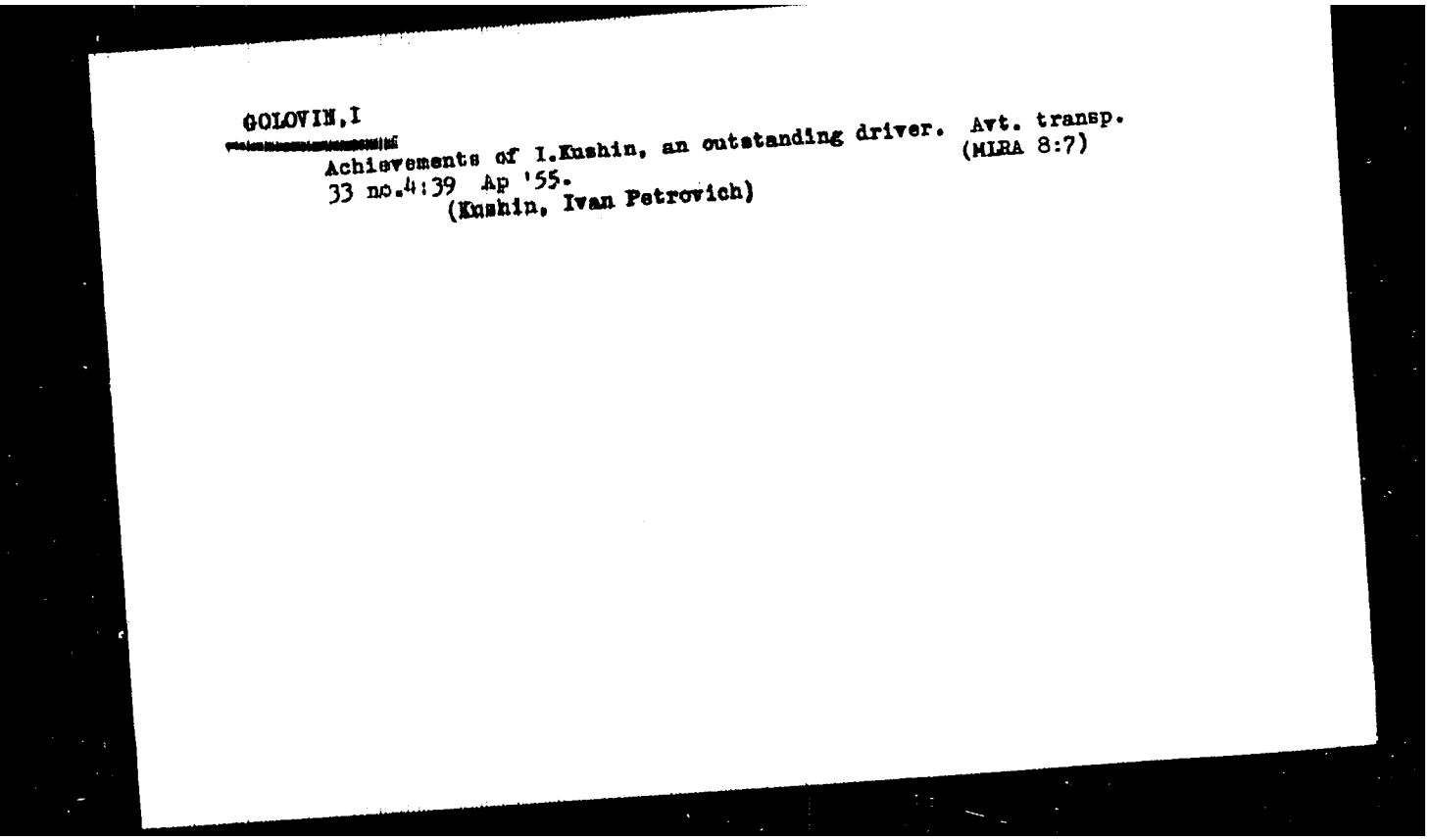
HULATENKO, I., upravlyayushchiy; GOLOVIN, I., inzhener-tekhnolog.

We have mastered high-grade wheat milling at a mill of the state farm flour milling system. Muk.-elev.prom. 20 no.6:27-29 Je '54. (MLRA 7:8)

1. Rostovskiy Oblmel'trest.
(Wheat milling)

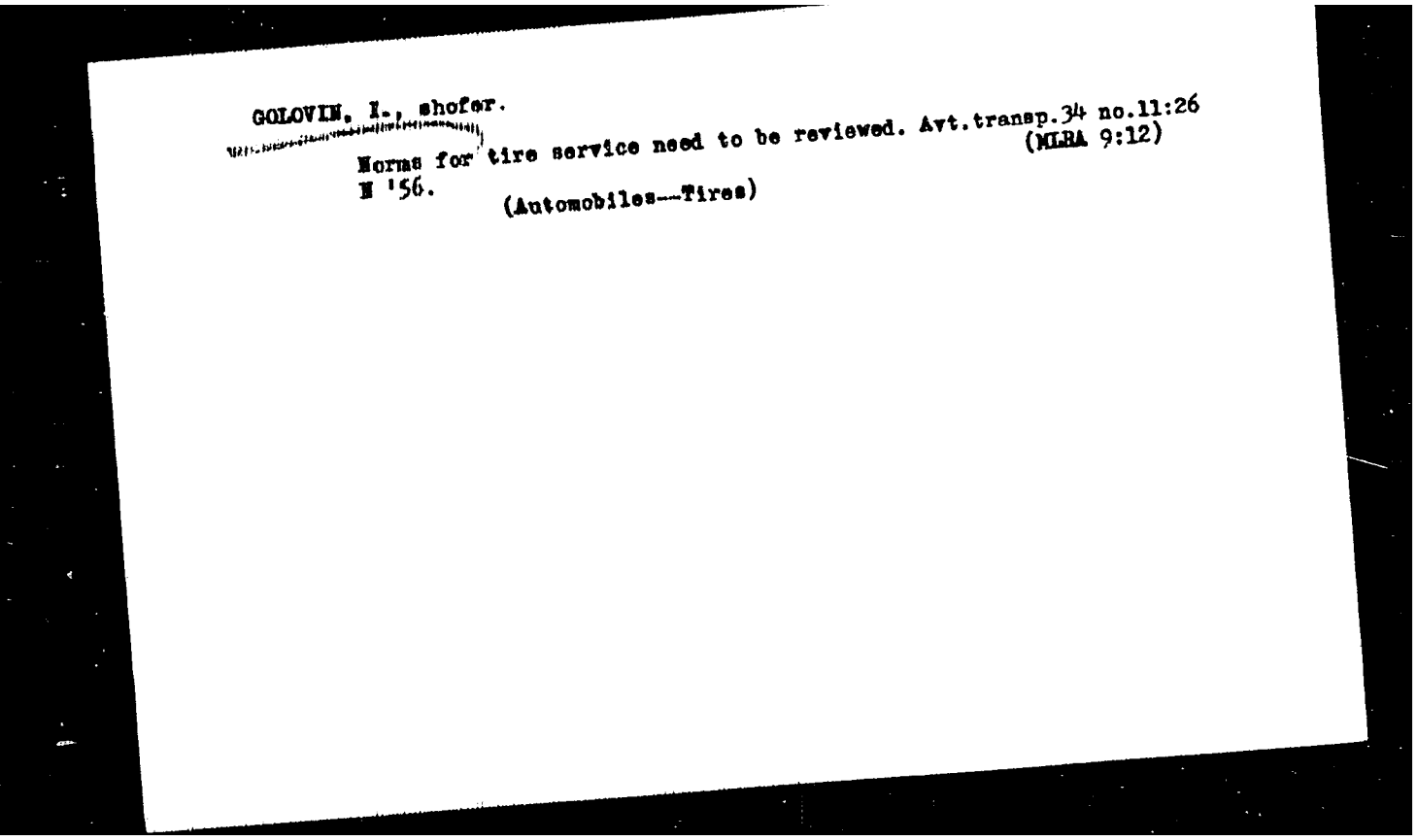
1. GOLOVIN, I.
2. USSR (600)
4. Coal-Mining Machinery
7. New developments in our work. Mast. ugl. 1, no. 9, 1952.

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



GOLOVIN, I

Achievements of I.Kushin, an outstanding driver. Avt. transp. 33 no.4:39 Ap '55. (MLRA 8:7)
(Kushin, Ivan Petrovich)



GOLOVIN, I., shofer.

Norms for tire service need to be reviewed. Avt.transp.34 no.11:26 N '56. (MLRA 9:12)

(Automobiles--Tires)

GOLOVIN, I.

GOLOVIN, I., shofer.

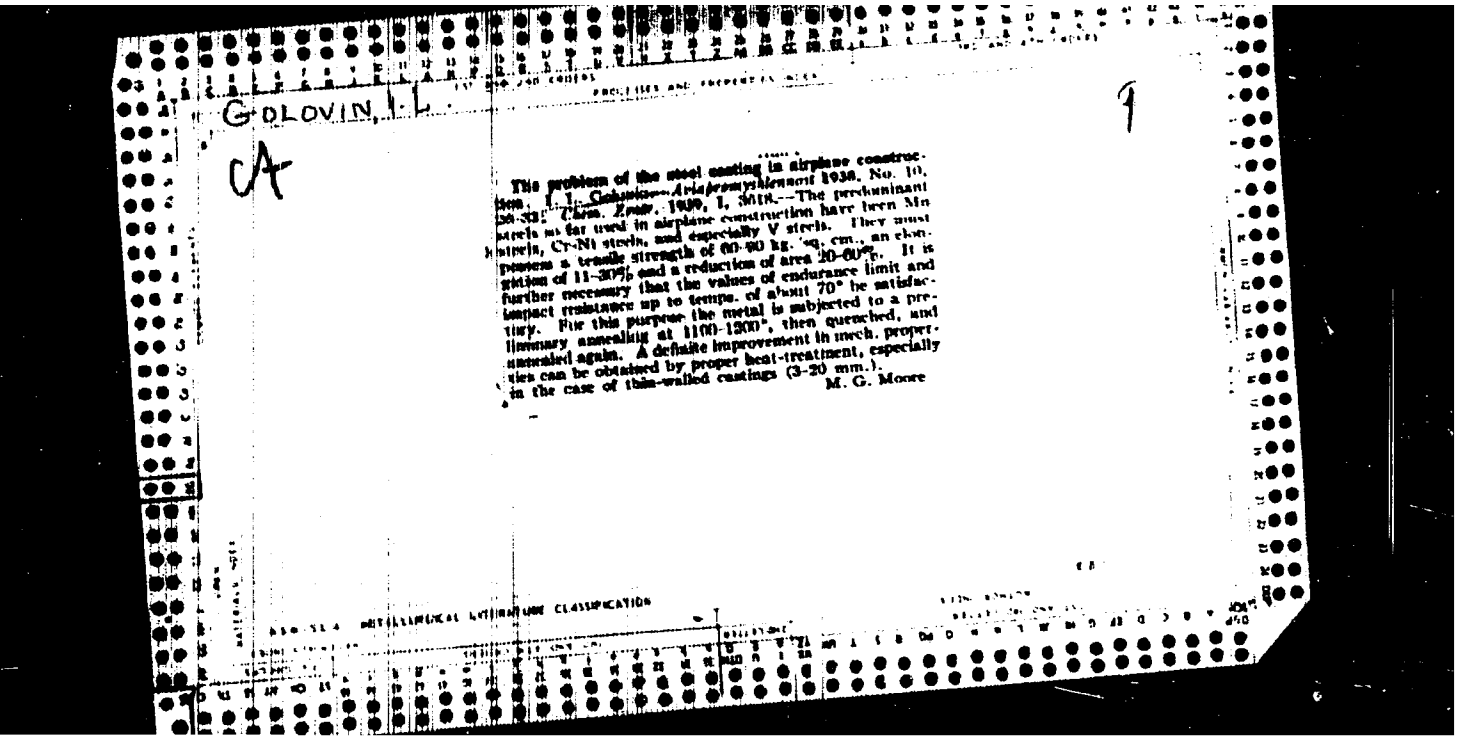
Experience in organizing long-distance transport. Avt. transp. 35 no.12:8 D '57. (MIRA 11:1)

1. 2-ya avtobaza Upravleniya avtotransporta Dal'stroya.
(Magadan Province--Transportation, Automotive)

GOLOVIN, I.

In Magadan Province. Avt.transp. 37 no.4:46 Ap '59.
(MIRA 12:6)

(Magadan Province--Traffic safety)



GOLOVIN, I. L.

CA

9

The problem of the steel casting in airplane construction. I. L. Golovin. *Aviaprom. Vestnik* 1938, No. 10, 28-33; *Chem. Zentr.* 1939, I, 3018.—The purchasing steels so far used in airplane construction have been Mn steels, Cr-Ni steels, and especially V steels. They must possess a tensile strength of 60-90 kg./sq. cm., an elongation of 11-30%, and a reduction of area 20-60%. It is further necessary that the values of endurance limit and impact resistance up to temps. of about 70° be satisfactory. For this purpose the metal is subjected to a preliminary annealing at 1100-1200°, then quenched, and annealed again. A definite improvement in mech. properties can be obtained by proper heat-treatment, especially in the case of thin-walled castings (3-20 mm.).

M. G. Moore

GOLOVIN, I. L.

"Deep and Figured Etching of Aluminum Alloys"

Light Alloys. no. 1: Physical Metallurgy, Heat Treatment, Casting, and Forming; Principal Reports of the Conference, Moscow, Izd-vo AN SSSR, 1958, 497 P.

(2nd All-U. Conf. on Light Alloys, 1957)

AID P - 5492

Subject : USSR/Aeronautics - instrument landing

Card 1/1 Pub. 135 - 9/26

Authors : Savchenko, M. A., Lt. Col., mil. pilot class I and Golovin, I. M., Major, mil. pilot class I.

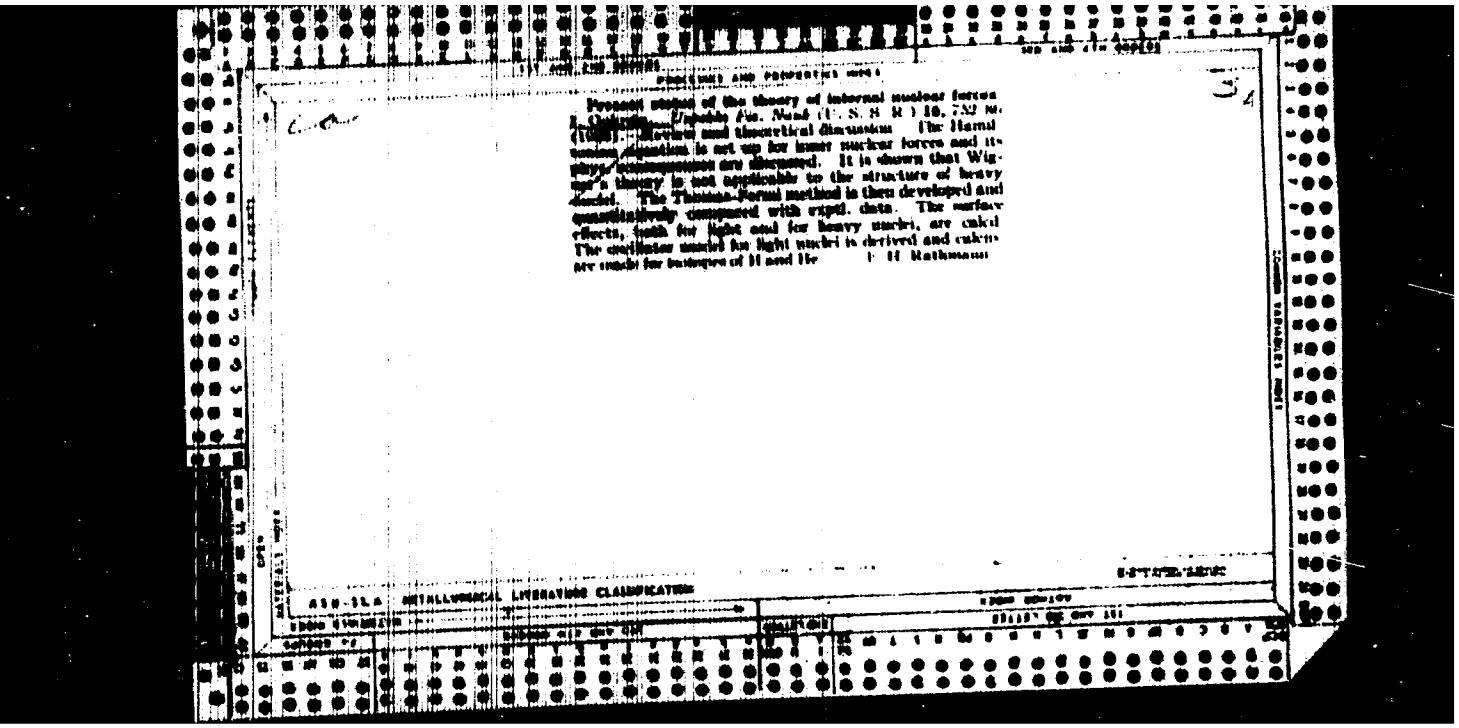
Title : On the alternate airdrome

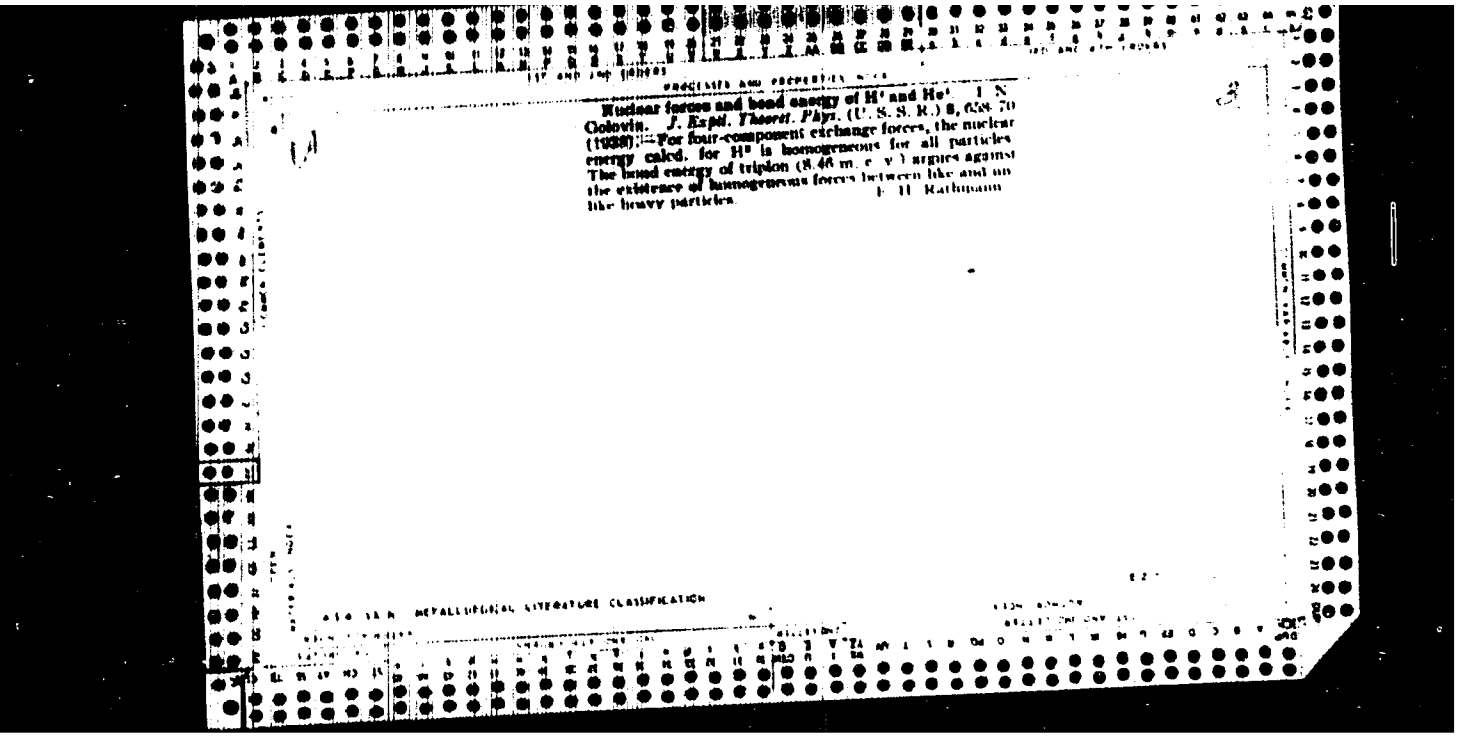
Periodical : Vest. vozd. flota, 3, 46-49, Mr 1957

Abstract : This is the third in the series of three articles which appear in this issue under the title "On the Landing Course". The author discusses the problem how the airplanes should be ordered and guided to the alternate airdromes when the landing due to the bad weather conditions is impossible on the home airdrome. The article merits attention.

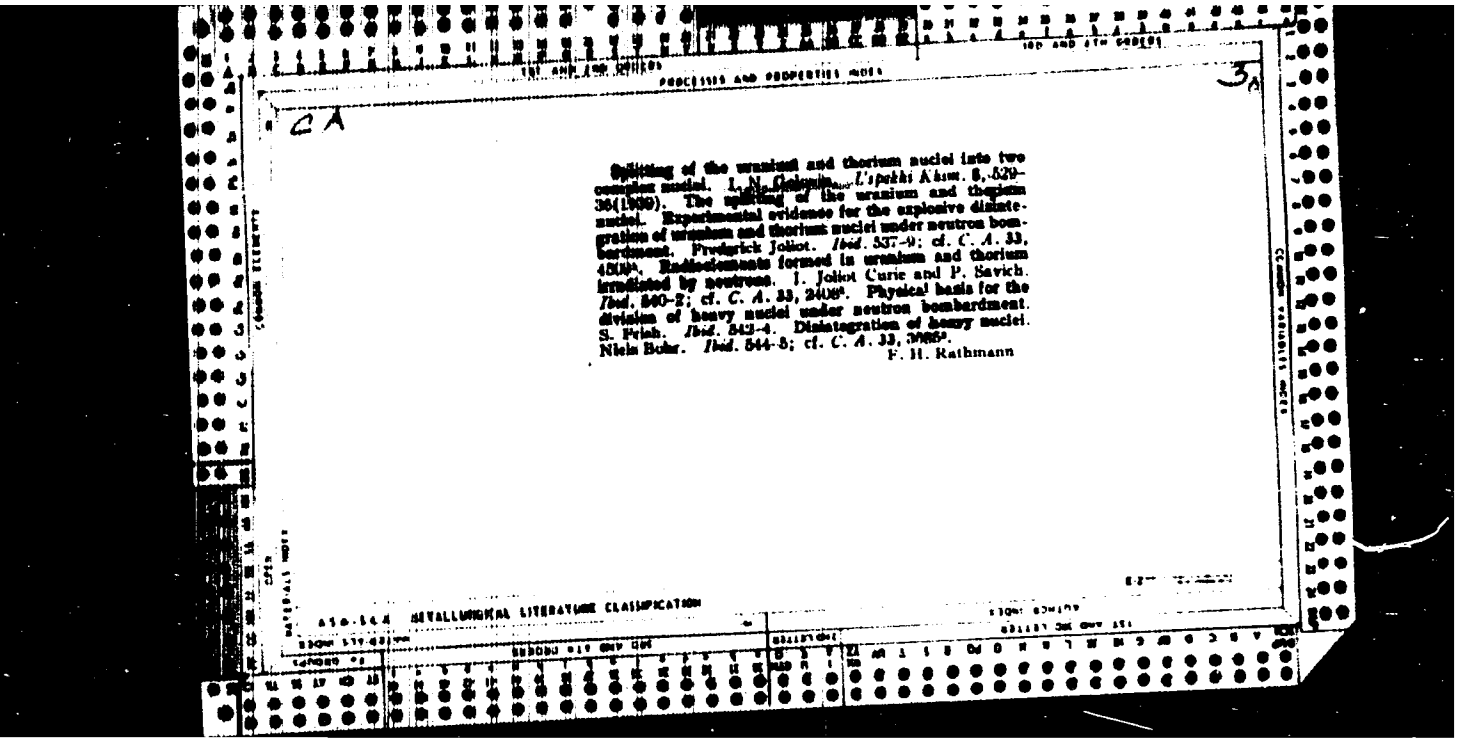
Institution : None

Submitted : No date

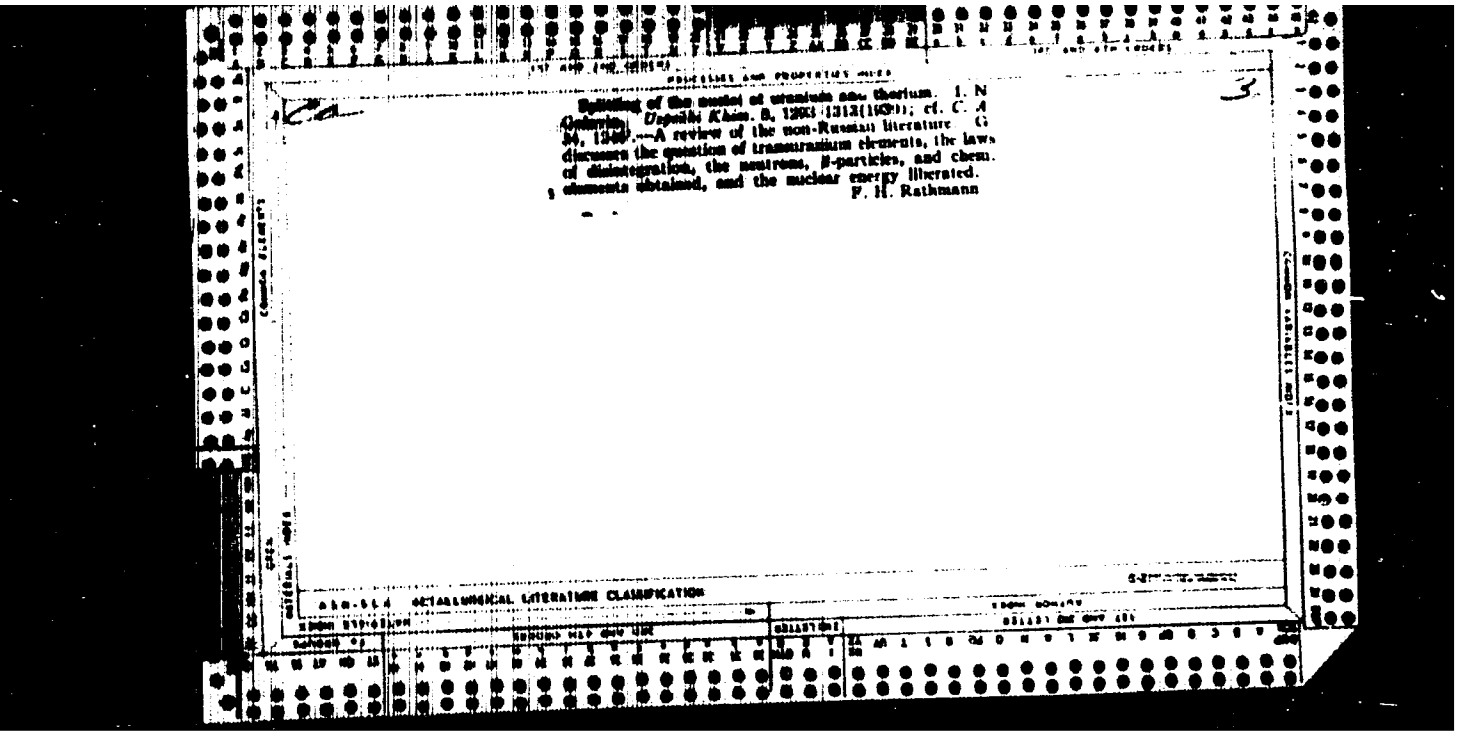




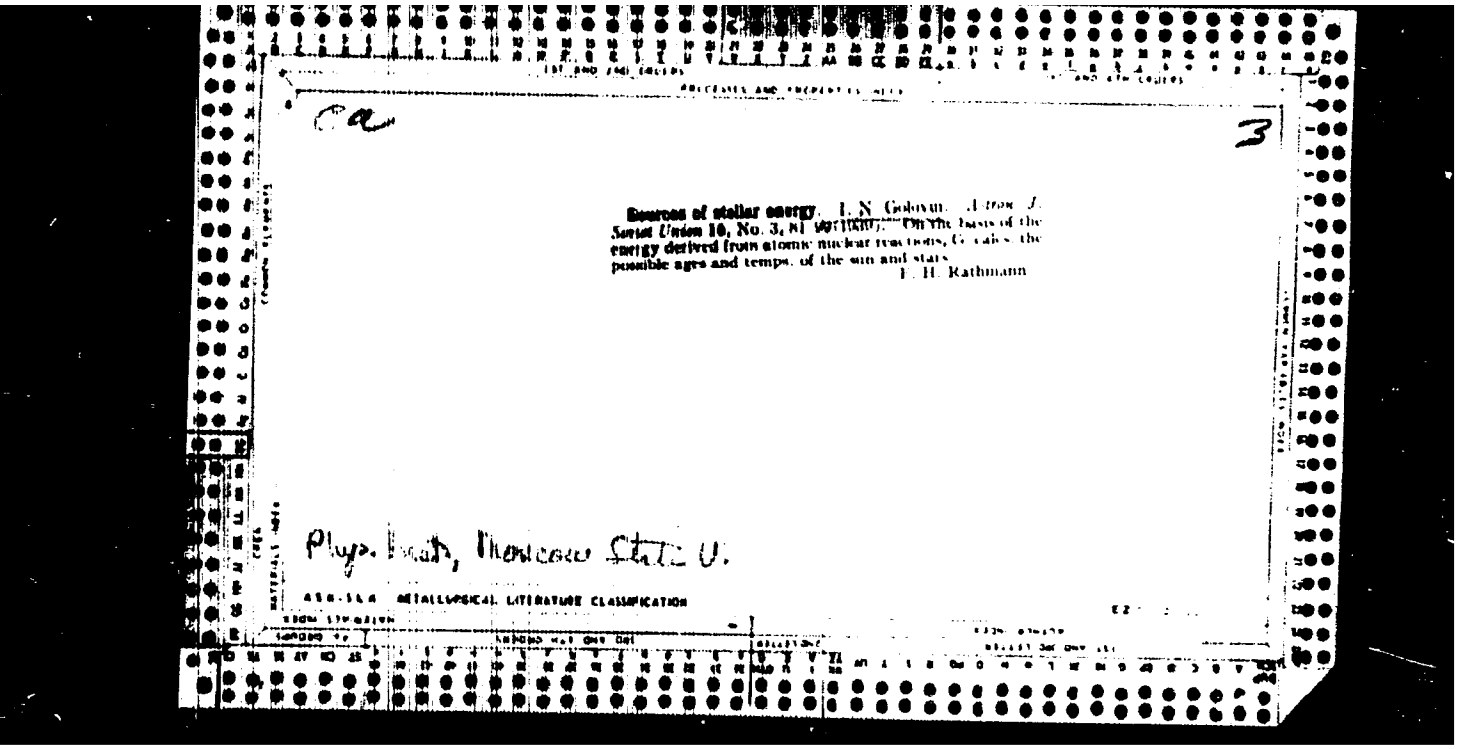
Nuclear forces and bond energy of H^3 and He^3. I. N. Golovin. *J. Expil. Theoret. Phys.* (U. S. S. R.) 8, 658-70 (1938).—For four-component exchange forces, the nuclear energy calcd. for H^3 is homogeneous for all particles. The bond energy of triplon (8.46 m. e. v.) argues against the existence of homogeneous forces between like and unlike heavy particles. J. H. Rathmann



Splitting of the uranium and thorium nuclei into two
complex nuclei. I. N. Golovin. *Uspekhi Khim.* 8, 629–
36(1939). The splitting of the uranium and thorium
nuclei. Experimental evidence for the explosive disinte-
gration of uranium and thorium nuclei under neutron bom-
bardment. Frederick Joliot. *Ibid.* 537–9; cf. *C. A.* 33,
4500⁸. Radioelements formed in uranium and thorium
irradiated by neutrons. I. Joliot Curie and P. Savich.
Ibid. 540–2; cf. *C. A.* 33, 2409⁸. Physical basis for the
division of heavy nuclei under neutron bombardment.
S. Frish. *Ibid.* 542–4. Disintegration of heavy nuclei.
Niels Bohr. *Ibid.* 544–5; cf. *C. A.* 33, 3985⁸.
F. H. Rathmann



Splitting of the nuclei of uranium and thorium. I. N
Ogolevitsa. *Uspekhi Khim.* 8, 1293-1313(1939); cf. *C. A.*
34, 1349.—A review of the non-Russian literature. G
discusses the question of transuranium elements, the laws
of disintegration, the neutrons, β-particles, and chem.
elements obtained, and the nuclear energy liberated.
F. H. Rathmann



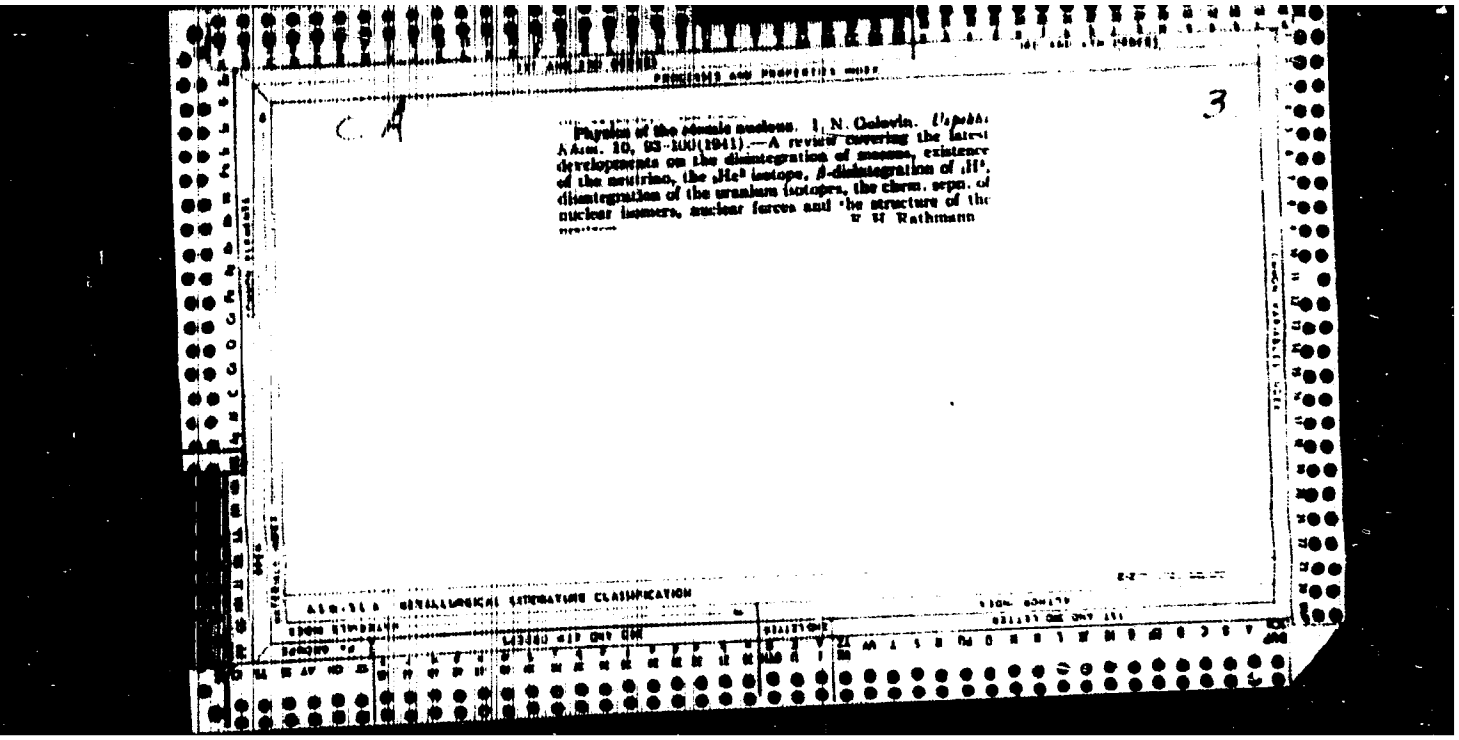
Ca

3

Sources of stellar energy. I. N. Golovin. *Uspekhi Fiz. Nauk SSSR* [*Advances in Physical Sciences of the Soviet Union*] **10**, No. 3, 81 [1947] (in Russian). On the basis of the energy derived from atomic nuclear reactions, G. calcs. the possible ages and temps. of the sun and stars.
F. H. Rathmann

Phys. Dept, Moscow State U.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



C. A

3

Physics of the atomic nucleus. I. N. Galanin. *Uspekhi* A.Am. 10, 93–130(1941).—A review covering the latest developments on the disintegration of mesons, existence of the neutrino, the $_2He^3$ isotope, β-disintegration of $_1H^3$, disintegration of the uranium isotopes, the chem. separ. of nuclear isomers, nuclear forces and the structure of the neutron. T. H. Rathmann

GOLOVIN, I.N.

CARD 1 / 2 PA - 1754

SUBJECT USSR / PHYSICS
AUTHOR BEZBATCHENKO, A.L., GOLOVIN, I.N., IVANOV, D.P., KIRILLOV, V.D., JAVLINSKIJ, N.A.
TITLE The Investigation of a Gas Discharge with High Amperage in a Longitudinal Magnetic Field.
PERIODICAL Atomnaja Energija, 1, fasc.5, 26-37 (1956)
Issued: 1 / 1957

The present work describes the investigations of a gas discharge in deuterium at pressures of from 0,05 to 0,4 mm torr. The stages of the discharge from the growth of the field from zero to the maximum are investigated. Amperage attained 700 kiloampères and the field strength of the longitudinal field was 12000 Ørsted. Investigations were carried out at a field strength of the longitudinal field which was comparable to that of the discharge current. The momentum device used is explained on the basis of a drawing. It consists of a glass or farfor tube of a length of from 65 to 70 cm and with a diameter of from 18 to 20 cm with plane copper electrodes. These tubes are mounted inside a coil of 36 cm diameter. The condenser pile with C_1 = 23.000 microfarads on the occasion of its discharge by way of a spherical discharger produces damped electric oscillations with a frequency of 73 c.

Summary and discussion of results: The longitudinal magnetic field delays the compression of the discharge column under the influence of the eigenfield of the current. Breakdown of the discharge column begins later than at H_o = 0. (H_o - longitudinal field before the discharge). At $H_o \leq$ 2000 Ørsted radial

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1977
AUTHOR BEZBATCHENKO,A.L., GOLOVIN,I.N., IVANOV,D.P., KIRILLOV,V.D. JAVLINSKIJ,N.A.
TITLE On the Influence Exercised by a Longitudinal Magnetic Field on a Pulse-Like Gas Discharge with High Amperage.
PERIODICAL Dokl.Akad.Nauk 111,fasc.2, 319-321 (1956)
Issued: 1 / 1957

The authors investigated the influence exercised by a longitudinal magnetic field on the stability of a plasma column obtained by the pulse-like passage of a current through deuterium. Gas pressure on the occasion of these experiments amounted to from 0,05 to 0,4 mm torr. Amperage attained 700.000 amperes and the field strength of the longitudinal magnetic field was 12.000 Ørsted. A farfor or glass tube with a radius of 10 cm and an electrode distance of 70 cm served as discharge chamber. The scheme of the experimental system is shown in form of a diagram. On the occasion of these tests the strength of the discharge current, the voltage between the electrodes, the radius of the discharge column, and the average field strength of the longitudinal magnetic field in the plasma were determined simultaneously.
An enclosure shows recording of the discharge column during the first 10 microseconds. In the case of the presence of a longitudinal magnetic field the column contracts during the first 5 to 6 microseconds but remains homogeneous with respect to length. With an increase of field strength up to 6000 Ørsted compression slows down noticeably and a further increase of field strength is

Dokl.Akad.Nauk 111, fasc.2, 319-321 (1956) CARD 2 / 2 PA - 1977

only little noticeable. At field strengths of 700 and 2000 Ørsted radial oscillations of the discharge column are noticed. The time of existence of a sharply outlined column is much longer in the case of the existence of a longitudinal magnetic field than if such a field is lacking. In the case of weak longitudinal fields the discharge column curves in the 8. microsecond, on which occasion it remains sharply outlined. However, if a longitudinal field is lacking, the discharge column loses its sharp outline already in the fifth microsecond. The duration of the existence of a sharply outlined column increases under the effect of a longitudinal field to a greater extent than the compression velocity diminishes.

Next, the conditions for the development of the elementary theory for the compression of the discharge column under the effect of the own magnetic field in the case of the existence of a longitudinal magnetic field are given. At a field strength of 2000 Ørsted the computed curves agree satisfactorily with experimental data, but at 6000 and 12000 Ørsted the computed contraction is several times lower than the observed one. Therefore the strong longitudinal field is not frozen in and a considerable part of its flux emerges from the column during the contraction. The authors obtained a solution of the equation of motion which agrees well with measuring results. In the case of very weak magnetic fields the flux of the longitudinal field within the column increases.

INSTITUTION:

BEZBATCHENKO, A. L., GOLOVIN, I. N., KOZLOV, P. I., STRELKOV, V. S. AND YAVLINSKIY, N. A.

"The Electrodeless Discharge with High Current in a Toroidal Chamber with a Longitudinal Magnetic Field." (Work carried out in 1956-57); pp. 116-133.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

SOLOVIEV, I. N.

22292

26.2322 /
26.2212

S/053/61/073/004/005/007
B125/B201

AUTHORS: Golovin, I. N., Artemenkov, L. I., Bogdanov, G. F., Panov, D. A., Pistunovich, V. I., Semashko, N. N.

TITLE: Work with the thermonuclear installation "Ogra"

PERIODICAL: Uspekhi fizicheskikh nauk, v. 73, no. 4, 1961, 685-700

TEXT: The principal data concerning the installation "Ogra" were already published in 1958 by I. V. Kurchatov, "O nekotorykh rabotakh Instituta atomnoy energii AN SSSR po upravlyayemym termoyadernym reaktsiyam" (Atomnaya energiya 5, 105 (1958)). Both this paper and I. N. Golovin's lecture in London (1959) are presupposed to be known. Pinch current strength and conditions required for a dense plasma to accumulate in the "Ogra". In "pinch" operation, the density of plasma is made equal or larger than the density of hydrogen. The accumulation of hot plasma in the "Ogra" is above all dependent upon the following four cross sections: (a) the dissociation cross section σ_d of a molecular ion H_2^+ in hydrogen, (b) the cross section σ_d^* of the dissociation of a molecular ion H_2^* by

Card 1/6

Work with the thermonuclear...

protons, (c) the cross section σ_{ex} of the charge exchange of protons in hydrogen, (d) the cross section σ_{ion} of hydrogen ionization by protons. The values of σ_d used by the authors in 1958 had been measured by N. V. Fedorenko at LFTI (Leningrad Institute of Physics and Technology) in 1957. For conditions in the "Ogra", the equations for the balance of ions and neutrons read.

$$\frac{a}{\Omega} J (n_0 \sigma_R + n \sigma_R^*) \mathcal{L} = n_0 n \sigma_n v, \qquad (2,1)$$

$$\frac{1}{\Omega} J q = n_0 n \sigma_n v \varepsilon + \frac{P}{\Omega} n_0. \qquad (2,2)$$

The equation for the pinch current reads:

$$J_{пер} = \frac{1}{4} \frac{q}{\varepsilon a^2} \frac{\Omega}{\mathcal{L}^2} \frac{v \sigma_n^2}{\sigma_R \sigma_R^* \sigma_n} \left\{ 1 - \frac{a \mathcal{L}}{q} \frac{1}{\Omega} \frac{\sigma_R^*}{v \sigma_n} P \right\}^2 \qquad (2,3)$$

for the density of plasma or hydrogen at the pinch:

$$n_{пер} = \frac{1}{2} \frac{q}{\varepsilon a \mathcal{L}} \frac{\sigma_n}{\sigma_n \sigma_R^*} \left(1 - \frac{a \mathcal{L}}{q} \frac{1}{\Omega} \frac{\sigma_R^*}{v \sigma_n} P \right). \qquad (2,4)$$

Card 2/6

Work with the thermonuclear...

and

$$n_{\text{в пор}} = \frac{1}{2}\frac{q}{\alpha\varkappa}\frac{\sigma_{\text{в}}}{\sigma_{\text{п}}\sigma_{\text{л}}}\frac{\left(1-\frac{\alpha\varkappa}{q}\frac{1}{\Omega}\frac{\sigma_{\text{л}}^{*}}{v\sigma_{\text{п}}}p\right)^{2}}{1+\frac{\alpha\varkappa}{q}\frac{1}{\Omega}\frac{\sigma_{\text{л}}^{*}}{v\sigma_{\text{п}}}p} \qquad (2,5)$$

respectively. The plasma-filled volume in the "Ogra" amounts to $\Omega = 8\cdot10^{6}$ cm^{3}. Fig. 1 shows the principal cross sections characterizing the accumulation of a plasma in the "Ogra". Reference is made to measurements carried out by V. A. Simonov at the Nauchno-issledovatel'skiy vakuumnyy institut (Vacuum Scientific Research Institute). Part 3 deals with the stability, the space charge, and the cooling of ions by electrons. M. S. Ioffe and V. G. Tel'kovskiy have studied the adjusting instability (perstanovochnaya neustoychivost'). According to O. B. Firsov, a strong asymmetry of the plasma may, in case of a positive azimuthal drive, lead to an ordered flux of ions toward the chamber wall. Part 4 deals with results of experiments made with the "Ogra": at the time while the present paper was written, certain parts of the "Ogra" were redesigned with a view to amplifying the induced flux of H_2^+ ions, and to improving

Card 3/6

the vacuum conditions. I. G. Goncharov and Yu. N. Dnestrovskiy have devised a method of measuring very low electron densities in the "Ogra". V. T. Karpukhin has developed and built an interferometer operating on the 3-cm wavelength and serving for the measurement of the highest electron densities. There are always two plasma components in the chamber, a "hot" one and a cold one, the density of the cold component being considerably higher than that of the "hot" one if the pressures of remanent gases exceed 10^{-7} mm Hg. At pressures below 10^{-7} mm Hg, the densities of the two components become equal. The cold component has a considerably longer life than the hot one. The apparatus constructed by A. N. Karkhov permits receiving the magnetic radiation of ions in the whole spectrum. Yu. L. Sokolov has worked out spetial spectrometers for measuring the energy of plasma electrons from ultraviolet recombination radiation and from bremsstrahlung in the range of 1000 - 1 A. Part 5. Conclusions: From experiments with the "Ogra": in the case of weak amperages in the trap (10-20 milliamperes) the ion motion fits well the theory of motion of single particles, and the mean free path of molecular ions is longer than one kilometer. By a proper choice of the form of the magnetic field

Work with the thermonuclear...

it is possible to augment the mean free path even further, and to accumulate a plasma to proton densities of 10^7 cm^{-3}. Currents of 300 to 400 milliamperes can be reached. If necessary, it is possible, by improving the vacuum conditions, to reduce the current required for a very dense plasma to some dozen milliamperes if the energy of H_2^+ ions is raised to 250-260 kev. Thus, the problem of accumulation of hot plasma with a density of 10^9 fast ions per cm^3 and even more is by no means solved as yet. Research work has so far only reached the limit of those plasma densities, below which the ions move as non-interacting particles, and above which the hydrodynamic properties of plasma and the collective interactions of particles make themselves noticeable. The processes taking place in the "Ogra" have not been completely clarified by experiments. For example, it has not yet been explained why the plasma potential in some variants of the experiments attains dozens of kilovolts. Various possible explanations are offered. There are 12 figures and 15 references: 5 Soviet-bloc and 10 non-Soviet-bloc. The two most recent references to English-language publications read as follows:
G. F. Bogdanov, D. A. Panov, N. N. Shemasko, Life time of fast ions in

Card 5/6

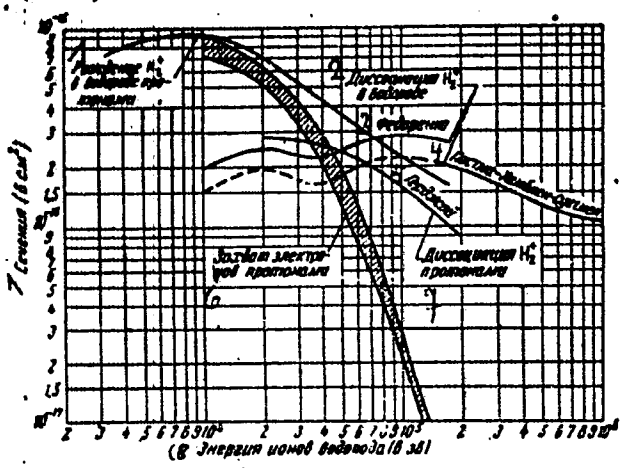
22292

S/053/61/073/004/005/007
B125/B201

Work with the thermonuclear...

Ogra, J. Nucl. Energy, part C, III, 106 (1961); R. F. Post, R. E. Ellis, E. C. Fird, and M. N. Rosenbluth, Stable Confinement of a high temperature plasma, Phys. Rev. Lett. 4, 166 (1960).

Legend to Fig. 1: The most important cross sections determining the process of plasma accumulation in the "Ogra": 1, cross sections (cm^2); 2, production of H_2^+ in hydrogen by protons, dissociation of H_2^+ in hydrogen; 3, Fedorenko; 4, Postma-Hamblen-Suitman; 5, Gerjoy; 6, capture of electrons by protons; 7, dissociation of H_2^+ by protons; 8, energy of hydrogen ions (ev).



Card 6/6

GOLOVIN, I. S.

PHASE I BOOK EXPLOITATION SOV/6167

Zaymovskiy, Aleksandr Semenovich, Vyacheslav Vyacheslavovich Kalashnikov, and Igor' Stefanovich Golovnin

Teplovydelyayushchiye elementy atomnykh reaktorov (Fuel Elements of Atomic Reactors). Moscow, Gosatomizdat, 1962. 369 p. Errata slip inserted. 4000 copies printed.

Ed.: Ye. I. Panasenkova; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This book is intended for students, scientific workers, engineers, and technicians specializing or engaged in atomic-power engineering and related fields.

COVERAGE: General requirements for the design and operation of fuel elements are presented. Particular attention is given to various fuel types, structural materials, compatibility of atomic fuel with structural materials, and of the latter with coolants. The combined thermal, mechanical, and radiative effect on fuel and materials is analyzed. General information on metals, and engineering reference data are included.

Card [redacted]

GOLOVIN, I.V.

Re-equipping trucks with trailers to be used for hauling large reinforced concrete elements. Rats. i izobr. predl. v stroi. no.5: 13-14 '58. (MIRA 11:6)
(Trucks trailers) (Reinforced concrete--Transportation)

GOLOVIN, L. (Kemerovo)

Circular collection of containers. Sov. torg. 35 no.9:33 S '62.
(MIRA 16:2)
(Kemerovo Province—Containers)

GOLOVIN, M. G., Engr. Cand. Tech. Sci.

Dissertation: "Investigation of the Technological Problems of Concreting Structures of the Silo Type." Central Sci Res Inst of Industrial Structures - "TsNIPS" 6 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

GOLOVIN, M.D., kandidat tekhnicheskikh nauk, redaktor; AZRILYANT, Ya.M., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Instructions for industrial and civil construction work using concrete and reinforced concrete under winter conditions] Instruktsiia po proizvodstvu betonnykh i zhelezobetonnykh rabot v promyshlennom i grazhdanskom stroitel'stve v zimnikh usloviiakh. 2-3 izd. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 31 p. (MLRA 8:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva.
(Concrete construction--Cold weather conditions)

GOLOVIN, M.G., kandidat tekhnicheskikh nauk, redaktor; KRYUGER, Yu, V., redaktor; TOKER, A.M., tekhnicheskiy redaktor.

[Manual for the concrete worker] Pamiatka betonshchiku. Moskva, Gos.izd-vo lit-ry postroitel'stvu i arkhitekture, 1955.72 p
(MLRA 9:4)

1.Moscow. Gosudarstvennyy institut po vnedreniyu peredovykh metodov rabot i truda v stroitel'stve.
(Concrete)

GOLOVIN, M.G., kandidat tekhnicheskikh nauk

Mechanized method of lifting sliding forms. Stroi. prom. 33 no.7:6-10 Jl '55. (MIRA 8:9)

1. MISI imeni Kuybysheva.
(Concrete construction--Formwork)

GOLOVIN, M.G.

GOLOVIN, M.G., kand. tekhn. nauk, dots.

Some results of demonstration building. Stroi. prom. 35 no.12:2-5 D '57. (MIRA 11:1)

(Construction industry)

L 11275-67 EWT(d)/EWP(e)/EWA(k)/EWA(h)/EWA(l)/EWA(m) IJP(c)

ACC NR: AP6017837 SOURCE CODE: UR/0147/66/000/002/0126/0129

AUTHOR: Golovin, M. I.; Tunakov, A. P.

ORG: none

TITLE: Calibration of pneumometric instruments with digital computers

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1966, 126-129

TOPIC TAGS: digital computer, computer programming, turbine engine, instrument calibration equipment

ABSTRACT: For calculations with digital computers, all calibration curves must be approximated by analytical expressions. An example is the traversing of turboengines with a three point instrument. The results of the measurements must be approximated in this case by a second order parabola expressing the relationship between the true and the measured pressure ratios (see Tunakov, Aviatsionnaya tekhnika, 3, 1964). The digital computer can be programmed to automatically perform repeated calibrations by calculating the three coefficients of the parabola and to calculate the error of approximation. Such a procedure was developed with the computer "Minsk". It was set to discard results with an error larger than three times the standard deviation, the latter being usually less than about 1%. Orig. art. has: 14 equations, 1 table and 1 figure.

SUB CODE: 14/ SUBM DATE: 03Dec64/ ORIG REF: 003 UDC: 518.5

Card 1/1

84-58-1-21/32

AUTHOR: Golovin, N., Pilot (Khabarovsk)

TITLE: On Color Film (Na tsvetnuyu plenku)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 1, pp 32-34 (USSR)

ABSTRACT: The article describes in story form the process of an aerial photography mission in the Khabarovsk area. It conveys a very general idea of the actual technique of photographing an assigned area. No technical data are given. Color film was used on that assignment, since customers are said to be very much interested in color photography, which renders a relatively clearer picture of the surveyed landscape. Two photographs accompany the text. One of them shows the radio operator at work wearing an oxygen mask and earphones, and the other shows the crew after returning from a mission.

AVAILABLE: Library of Congress

1. Aerial photography - USSR
2. Color film - Applications

Card 1/1

GOLOVIN, N.

Work organization of the composite aviation detachment. Grazhd. av. 10 no.5:12-14 My '57. (MIRA 10:8)
(Aeronautics in agriculture)

Golovin, N.

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry. I-30

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10412

Author : Golovin, N., Shagan, O., and Alimovskiy, I.
Inst : Not given
Title : Variations in the Natural Losses in Meat During Freezing

Orig Pub : Myasnaya industriya SSSR, 1955, No 6, 11-15

Abstract : The freezing of meats has been investigated and a method is proposed for determining the dehydration of the meat during freezing. On the basis of an analysis of the heat balance during freezing and the theory of controlled cooling rates, the authors conclude that the rate of dehydration of the meat during freezing follows an exponential law:

$$U = U_n e^{-mz}$$

Card : 1/4

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry. I-30

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10412

Abstract : where U is the rate of dehydration at any given instant during freezing in gms/hr, τ is the freezing time in hours, U_o is the initial rate of dehydration for $\tau = 0$, and mg is a constant characteristic of a given freezingtemperature and a of the dehydration process. The dehydration at any given moment during freezing may be calculated from the expression:

$$y = U_m / mg [1 - e^{-mg\tau}].$$

Experiments have been conducted on the separate cooling of a hind quarter weighing 34.65 kg and of a gluteus muscle weighing 1.297 kg at an air temperature of 2°, a relative humidity of 95%, and rate of travel of 0.1 m/sec. It has been found that for the quarter mg = 0.1266 and for the

Card : 2/4

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry. I-30

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10412

Abstract : gluteus muscle mg = 1.2254. Good agreement was observed between the experimentally observed values and calculated values. Check tests on commercial butts showed that the difference between the calculated and measured values was of the order of 2-3%. The authors recommend that three weighings be made when the natural losses in meat cooled under different technical conditions with a central-layer temperature of 30-15° are to be determined. From the two changes in the degree of dehydration, g_1 and g_2 at times τ_1 and τ_2, where $\tau_2 = \lambda\tau_1$, a system of equations may be set up and the values of mg and U_m can be calculated; substitution of these values into the basic equation gives the dehydration for any cooling time τ. A relationship has been established between the value of mg and the

Card : 3/4

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry. I-30

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10412

Abstract : cooling rate m (RZhKhim, 1956, 41791):

$$m_g = 1.36 m + 0.0067.$$

The value of U_n is not constant for different meats and depends on the temperature drop, the shape and physical characteristics of the meat. The effect of the flow rate of air during cooling on the weight loss in the meat has been investigated, as has the dependence of the dehydration during cooling on the storage period, periods of 2-3 days b being used.

Card : 4/4

L 08098-67 EWT(1) GW

ACC NR: AP6029965 (N) SOURCE CODE: UR/0413/66/000/015/0151/0152

34
B

INVENTOR: Barshay, Ya. A.; Vysokorodov, N. S.; Gindin, V. I.; Golovin, N. A.; Zelenskiy, S. I.; Indin, I. M.; Levit, G. A.; Petrov, P. P.; Smirnov, A. M.

ORG: none

TITLE: Installations for underwater television inspection of the docking assembly and the bottom of ships. Class 65, No. 184645 /announced by Gunboat Repair Plant, Baltic Sea Steamship Line, Ministry of the Navy, SSSR (Kanonerskiy sudoremontnyy zavod Baltiyskogo morskogo parokhodstva Ministerstva morskogo flota SSSR)/

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 151-152

TOPIC TAGS: underwater camera, floating dry dock, TV camera, remote control

ABSTRACT: An Author Certificate has been issued for an installation for the underwater television inspection of the dock assembly and the bottom of a ship while docking includes a remote-controlled television camera with a transmitting cathode-ray tube in a hermetic casing and an electric cable for power supply and signaling. The television camera is mounted on a remote-controlled self-propelled carriage provided with an electric drive, rollers for moving on vertical and horizontal monorails along the wall and floor of the dock, and a switch remotely controlled by a block-and-tackle system. Orig. art. has: 1 figure. [GE]

SUB CODE: 14, 13, 09/ SUBM DATE: 21Aug64

Card 1/1 nl UDC: 629.128.6: 621.397.13

GOLOVIN, N. G.

Golovin, N. G., Tudnev, O. M., Semenova, V. G., Mikhaylova, Ye. G., Staroverova, A. V., Klimaticheskiy i gidrologicheskiy atlas Baltiyskogo morya (Climatic and hydrological atlas of the Baltic Sea), Moscow, Gidrometeoizdat (Publishing House of Hydrometeorological Service), 1957, 106 pages of maps; (RZhGeofiz 6/58-4028 K) (Book)

ACC NR: AP6035854 SOURCE CODE: UR/0413/66/000/020/0059/0060

INVENTOR: Golovin, N. K.

ORG: none

TITLE: A control device for synchronization of backward wave tubes. Class 21, No. 187096

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 59-60

TOPIC TAGS: electron tube, backward wave tube

ABSTRACT: An Author Certificate has been issued for a control device (see Fig. 1) used for synchronizing backward wave tubes. The device has two series-connected diodes, a control and a protection, which eliminate the need for a separate power supply to fire the tube through its control electrode. The diodes also ensure zero potential between the cathode and the control electrode at the time when the modulating signal is applied to the tube. The diodes are connected between the cathode and the control electrode and, through an RC circuit, to the grounded anode of the tube. Orig. art. has: 1 figure

Card 1/2 UDC: 621.373.423:621.376.5

ACC NR: AP6035854

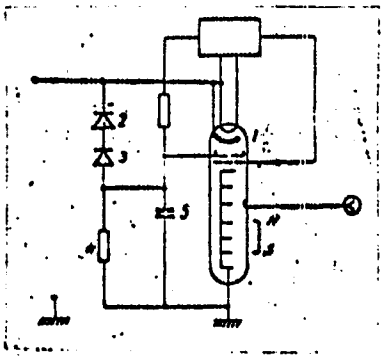


Fig. 1. Controlled backward wave tube

1 - Backward wave tube
2 - control diode
3 - protection
4 - resistor
5 - capacitor

SUB CODE: 09/ SUBM DATE: 03Nov65

Card 2/2

GOLOVIN, N.N.

Approximating the dispersion integral and calculating the differential cross section of dispersion by means of classical approximation (general calculation methods). Izv. AN Uz. SSR. Ser. fiz-mat.nauk no.4:45-52 '58. (MIRA 11:11)

1. Fiziko-tekhnicheskiy institut AN Uz. SSR.
(Dispersion)

GOLOVIN, N.N.

Calculating the differential cross section of dispersion for the $\frac{1}{r^4}$ potential. Izv.AN Uz.SSR.Ser.fiz.-mat.nauk no.5:55-67 '58. (MIRA 11:12)

1. Fiziko-tekhnicheskiy institut AN UzSSR.
(Dispersion)

GOLOVIN, N. F.

21499 GOLOVIN, N. F.

Gidrologiya malykh rek Leningradskoy oblasti. /Tezisy doklada/.
Trudy Vtorogo Vsesoyuz. geogr. s"yezda. T. 1.M., 194?, s. 420 - 27.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

SOKOLO, V.V., kand.tekhn.nauk; GOLOVIN, N.S., inzh.

PMGBel rotary disc loader. Gor. zhur. no.3:56-57 Mr '61. (MIRA 14:3)

1. Gipronikel', Leningrad.
(Ore handling--Equipment and supplies)

AUTHOR: Golovin, N. V. 94-58-6-8/19

TITLE: The Extrusion Method of Making Cable Joint Sleeves (Izgotovleniye svintsovykh kabel'nykh muft metodom vypressovki)

PERIODICAL: Promyshlennaya Energetika, 1958, nr 6, p 15 (USSR)

ABSTRACT: Lead cable jointing sleeves are usually cast or made up from sheet but these methods are not very satisfactory because of surface defects or uneven thickness. The quality is much better and less scrap is made if the sleeves are extruded. A team lead by K. S. Roshin developed this method of manufacture and a large number of the joints are in operation on 6 kV cables. The extrusion tool is illustrated by a sectional drawing, it is used on a 200-ton press. The blank is a cast ring of lead. A sleeve can be extruded in 4 secs. It is easy to make sleeves in this way, power consumption is low and quality is good. The method is being used widely. There is one figure.

Card 1/1 1. Electric cables - Joints 2. Lead - Applications
3. Lead - Extrusion

SOV/124-57-4-3868

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 6 (USSR)

AUTHOR: Golovin, N. Ya.

TITLE: The Fundamental Equations of the Mechanics of a Variable Mass (Osnovnyye uravneniya mekhaniki peremennoy massy)

PERIODICAL: V sb.: Mekhanika (MVTU, Vol 50). Moscow, Oborongiz, 1956, pp 27-49

ABSTRACT: A presentation of well-known results without corresponding source references.

Reviewer's name not given

Card 1/1

GOLOVIN, O. (Moskovskaya oblast')

Device for measuring the frequency characteristics of transistors. Radio no.9:52-53 S '65. (MIRA 19:1)

GOLOVIN, O.N.

Mnozhiteli bez tsentrov v pryamykh razlozheniyakh grupp. Matem. SB. 6(48), (1939), 423-426.
Ob assotsiativnykh operatsiyakh na mnozhestve grupp. DAN, 58(1947), 1257-1260.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.
Markushevich, A.I.
Rashevskiy, P.K.
Moscow-Leningrad, 1948

GOLOVIN, O.N.

KHINCHIN, A.Ya.; GOLOVIN, O.N., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor.

[Short course in mathematical analysis] Kratkii kurs matematicheskogo analiza. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1953. 624 p. (MLRA 7:8)
(Calculus)

GOLOVIN O.N.

HODGE, W.V.D.; GOLOVINA, L.I. [translator]; GOLOVIN, O.N. [translator]; UMKOV, A.I., redaktor; AGRANOVICH, M.S., redaktor; KORNILOV, B.I., tekhnicheskiy redaktor.

[Methods of algebraic geometry] Metody algebraicheskoi geometrii. Moskva, Izd-vo inostrannoi lit-ry. Vol. 1. 1954. 461 p.(MLRA 7:11)
(Geometry, Algebraic)

Golovin, O.N.

PHASE I BOOK EXPLOITATION 153

Moskovskoye matematicheskoye obshchestvo

Trudy, t.6 (Transactions of the Moscow Mathematical Society, v.6)
Moscow, Gostekhizdat, 1957. 485 p 1,550 copies printed.

Editors: Aleksandrov, P.S.; Gel'fand, I.M.; Golovin, O. N.
Ed. of v. 6: Lapko, A.F.; Tech. Ed.: Gavrilov, S.S.;
Corrector: Yedskaya, I.L.

PURPOSE: This book presents original papers submitted to the Moscow Mathematical Society and is intended for mathematicians and others with strong mathematical backgrounds.

Card 1/17

Transactions of the Moscow Mathematical Society 158

COVERAGE: Volume six contains 9 articles concerning problems in different fields of mathematics and 3 extracts from letters to the editor presenting notes and corrections to articles published in previous volumes. The contributions contained in this book are Soviet. See Table of Contents below for personalities and bibliography and for a brief coverage of each article.

TABLE OF CONTENTS:

Part I of this article was printed in Volume Five of the Transactions of the Moscow Mathematical Society. The basic results given in the article were presented at the December 14, 1954 session of the Moscow Mathematical Society. There are 28 references, of which 16 are Soviet, 6 English, 5 French and 1 German. Soviet personalities mentioned include Aleksandrov, P.S., Boltyanskiy, V., Glezerman, M., Pontryagin, L.S., and Kurosh, A.G., all of whom have published work on topology and the theory of groups.

Card 2/17

This article was presented at the November 16, 1954 session of the Moscow Mathematical Society. The results of the article were published without proof under the same title in Doklady Akademii Nauk, SSSR, 1954, Vol. 98, Nr. 1. There are 5 references, 3 of which are Soviet (1 translation) and 2 English. The Soviet personality mentioned, Aleksandrov, P.S., is the author of two referenced papers on combinatorial topology and the theory of sets.

The definition of curves in a Euclidean plane π is given and the terminology used is established. The Σ set of curves under investigation satisfies the following condition: through any two points in a plane only one curve from Σ can be drawn; or, two different curves from Σ intersect at no more than one point. It is proven that any system of curves which satisfies the above condition is an infinite or central system.

Gurevich, G. B. Isomorphism Conditions of Standard Nullalgebras 165

The basic results of this article were presented at the October 5, 1954 session of the Moscow Mathematical Society. There are 4 references, all Soviet. One Soviet personality is mentioned; i.e., Sushkevich, A. K., author of a textbook on higher algebra.

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The definitions of a standard nullalgebra and its code are given. A duality concept of two standard nullalgebras and their codes is introduced. The necessary and sufficient conditions for the isomorphism of two standard nullalgebras are investigated. It is proven that for $m \geq 3$, where m is the order of a nullalgebra, two standard nullalgebras are isomorphic when their codes either coincide or are dual. For degenerated cases (m = 1; m = 2) the conditions of isomorphism of two standard nullalgebras are also given.

Lyapunov, A. A. On Operations on Sets With Transfinite Indices 195

The basic conclusions of this article were presented at the September 27, 1955 session of the Moscow Mathematical Society. There are 16 references, of which 12 are Soviet, 3 French and 1 English. Soviet personalities mentioned include Novikov, P.S.; Luzin, N.N.; Arsenin, V.Ya.; Ochan, Yu,S.; Kolmogorov, A.N.; Glivenko, V.I.; Kantorovich, L.V.; and Livenson, Ye.M. The personalities mentioned above have all published work on the set theory.

Transactions of the Moscow Mathematical Society

The Table of Contents of this article is as follows:

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Adyan, S. I. Insolubility of Certain Algorithmic Problems in the Theory of Groups

The basic conclusions of this article were presented at the October 18, 1955 session of the Moscow Mathematical Society. There were 4 references, all Soviet. Soviet personalities mentioned include Kurosh, A. G. and Novikov, P. S., both of whom have published work on the theory of groups.

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Transactions of the Moscow Mathematical Society

The Table of Contents of this article is as follows:

Card 9/17

The basic results of this article were presented at the February 15, 1955 session of the Moscow Mathematical Society. There are 30 references, of which 23 are Soviet, 6 English and 1 German. The following Soviet personalities are mentioned: Gol'berg, P. A.; Kontorovich, P. G.; Kurosh, A. G.; Kutyavin, K. M.; Mal'tsev, A. I.; Mayagkova, N. N.; Pekelis, S. A.; Petrovlovskaya, R. V.; Smirnov, D. M.; Charin, V. S.; Chernikov, S. N.; and Shmidt, O. Yu. These personalities have published work on the theory of groups. The Table of Contents of this article is as follows:

Card 10/17

The basic conclusions of this article were presented at the October 5, 1954 session of the Moscow Mathematical Society. There are 8 references, all of which are Soviet including 3 translations. Soviet personalities mentioned are Dynkin, Ye. B. and Berezin, F. A., both of whom have published work on the theory of groups.

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The Table of Contents of this article is as follows:

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Transactions of the Moscow Mathematical Society 158

Berezin, F. A. Laplace Operators on Semisimple Lie Groups 372-462

The basic conclusions of this article were presented at the Moscow Mathematical Society on September 25, 1956. There are 26 references, of which 15 are Soviet (2 translations), 8 English, 2 French and 1 German. Soviet personalities mentioned are: Gel'fand, I. M.; Raykov, D. A.; Naymark, M. A.; Dynkin, Ye, B. and Onishchik, A. L.

An editorial note observes that the results obtained in this article coincide to a considerable extent with those published by Harich-Chandra in the Transactions of the American Mathematical Society in November 1956.

Card 13/17

Transactions of the Moscow Mathematical Society

The Table of Contents of this article is as follows:

Card 14/17

Ladyzhenskaya, O. A. (Leningrad). On the Construction of Discontinuous Solutions of Quasilinear Hyperbolic Equations in the Form of Limits of Solutions of Corresponding Parabolic Equations, When the "Coefficient of Viscosity" Converges to Zero 465

The basic conclusions of this article were presented at the December 18, 1956 session of the Moscow Mathematical Society and were in part published in Doklady, Akademii Nauk SSSR, 1956, Vol. III, Nr 2. There are 10 references, 7 of which are Soviet including 1 translation and 3 English. Soviet personalities mentioned include Oleynik, O. A.; Tikhonov, A. N.; Samarskiy, A. A.; Venttsel, T. D.; Petrovskiy, I. G.; and Sobolev, S. L., all of whom have published papers on the theory of partial differential equations.

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Transactions of the Moscow Mathematical Society

The Table of Contents of this article is as follows:

[Trudy Mosk. matem. o-va 4 (1955)]

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