

L 13859-66

ACC NR: AT6004293

of this signal in terms of the half-width of the magnetic resonance line for the optically oriented atoms and it is shown that the sensitivity of the magnetometer to variations in the magnetic field increases with the steepness in this harmonic at the resonance center. Expressions are given for determining the optimum parameters of the magnetometer. Orig. art. has: 1 figure, 3 formulas.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 003

Card 2/2

BK

KOPELOV, A.A.; NEDOKASH, M.S.

Small foundry equipment in short-run production. Lit. proizv.
no.2:38-40 P '63. (MIRA 16:3)
(Foundries--Equipment and supplies)

SHATALOV, V.P.; KOSTYUKOV, N.M.; POFOVA, Ye.N.; CHULYUKOVA, T.A.; MEDOYNOVA, L.A.

SIS-30AM highly plastic oil-extended divinyl-styrene rubber. Kauch.
1 res. 18 no.1:4-6 Ja '59. (MIRA 12:1)

1. Vereshkiy saved sinteticheskogo kauchuka imeni S.M. Kireva.
(Rubber, Synthetic)

CHELOTAREVA, N.S.; NEDOZHIVINA, M.A.; STOLYAROVA, T.I.

Moscow-Valdai (Mikulino) interglacial sediments in the upper Volga Basin and their significance for paleogeography. Trudy Kom.chetv.-per. no.26:35-49 '61. (MIRA 15:3)
(Volga Valley--Glacial epoch)
(Volga Valley--Paleogeography)

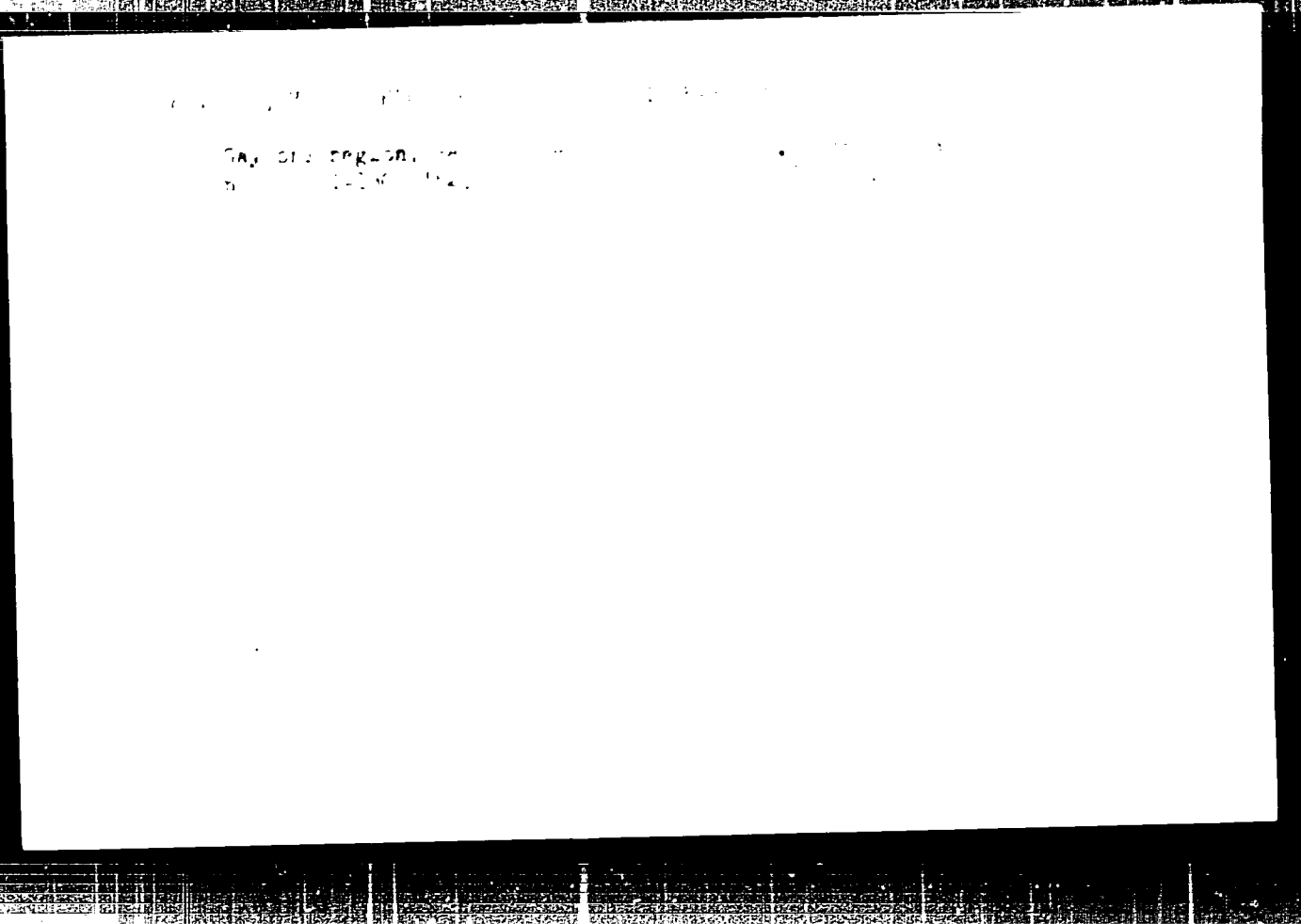
SKRIPIL', V.I.; NEDOZHGIN, M.S.; SIBIRSKAYA, N.A.

Basic geological characteristics of the Gay copper pyrite
deposit in the Southern Urals. Mat. po geol. i pol. iskop.
Iush. Urala no.2:81-93 '60. (MIRA 14:3)
(Ural Mountains—Geology)

SKRIPIL^o, V.I.; MEDOZHOGIN, M.S.

Geological and structural position of the Gay copper pyrite deposit.
Razved. i okh. nedr 26 no.4:5-10 Ap '60. (MIRA 15:7)

1. Gayskaya geologorazvedochnaya ekspeditsiya.
(Gay Region (Orenburg Province)—Chalcopyrite)



AVDEYEVA, L.K.; BYTSEVA, A. I.; GUMENYUK, A. I.; KURKOVA, L. I.;
V.K.

Importance of Escherichia coli in the etiology of gastro-
intestinal diseases in young children in Tomsk. Izv. TomNI, 1969,
14:71-75. (MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut bakterial'noy
syvorotok i Tomskiy meditsinskiy institut.

NEDRASOVA, T. P.

USSR/Forestry - Tree Biology and Typology.

K.

Abs Jour : Ref Jour - Biol. No 21, 1953, 95812

Author : Nedrasova, T.P.

List : Tomsk University.

Title : Harvest of Pine Seeds in Pine Forests of the West Siberian Arid Regions.

Orig Pub : Tr. Tomskogo un-ta, 1957, 141, 80-95.

Abstract : Fructification of pine in the pine forests of the West Siberian arid region proceeds very successfully, except during extremely dry periods. The soil-ground water regime is of great significance for fructification. In 1953-1954, the harvest in pine forests of the fresh and moist types several times higher than in the dry types of forests. During moist "microperiods", the relationship can reverse. The zonal changes of the harvest yield were

Card 1/2

NEDRIGA, V. P.

29009 Raschet sopryazheniy lotin s zemlyunymi dambami. Gidrotekhn. Stroit-vo, 1949,
No. 9, S. 9-14

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

RUSSIA, U.S.S.R.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Antonina, V.S.	"Role of calculations	Ministry of Education
Antonina, V.S.	of filtration of chemical	
Romanov, A.V.	engineering materials"	
Romanova, Ye. Ya.		

SO: W-30604, 7 July 1954

SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor; BLIZNYAK, Ye.V. doktor tekhnicheskikh nauk, professor; OLESHKOVICH, L.V., kandidat tekhnicheskikh nauk, dotsent; AKHUTIN, A.E., doktor tekhnicheskikh nauk, professor; BERZINSKIY, A.E., doktor tekhnicheskikh nauk, professor; GRISHIN, M.M., doktor tekhnicheskikh nauk, professor; DZHUNKOVSKIY, N.N., doktor tekhnicheskikh nauk, professor; ZHUMOCHKIN, B.N., laureat Stalinskoy premii, doktor tekhnicheskikh nauk, professor; MIKAYLOV, K.A., doktor tekhnicheskikh nauk, professor; NICHIPEROVICH, A.A., doktor tekhnicheskikh nauk, professor; NESTERUK, F.Ya., doktor tekhnicheskikh nauk; NEDRIGA, V.P., kandidat tekhnicheskikh nauk; SAFONOV, P.V., inzhener, ~~LARSENENKOV~~, A.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; MUDOMOV, V.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; BARSOV, M.V., inzhener, redaktor; MEYSTER, V.A., kandidat tekhnicheskikh nauk, redaktor; LIPKIND, M.V., kandidat tekhnicheskikh nauk, redaktor; LYAPICHEV, P.A., kandidat tekhnicheskikh nauk, redaktor; KARPOV, I.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; REPKIN, V.P., inzhener, redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Hydraulic engineering handbook] Spravochnik po gidrotekhnike, Moskva, Gos.isd-vo lit-ry, po stroit. i arkhit. 1955. 828 p. (MLRA 8:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodoabsheniya, kanalisatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii. 2. Zasluzhenyy deyatel' nauki i

(Continued on next card)

SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor, and others... (Card 2)

[Hydraulic engineering handbook] Spravochnik to gidrotekhnike,
Moskva, Gos.izd-vo lit-ry, po stroit i arkhit. 1955. 828 p.
(Card 2) (MLRA 8:10)

2. Zasluzhenyy deyatel' nauki i tekhniki RSFSR (for Blisnyak)
3. Deyatel'nyy chlen Akademii nauk ASSR (for Mikaylov)
(Hydraulic engineering)

112-57-8-16398

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 8,
p 54 (USSR)

AUTHOR: Nedruga, V. P.

TITLE: Calculating Seepage at the Dam Base With Allowance for Water
Penetrability of Rabbets (Raschet fil'tratsii v osnovanii plotin s
uchetom vedopronitsayemosti shpuntov)

PERIODICAL: V. sb.: Vopr. fil'trats. raschetov gidrotekhn. sooruzheniy
(Collection: Problems of Filtration Calculations in hydro-Engineering
Installations), Nr 2, Moscow, Gos. ind-vo lit, po str-vu i arkhitekt.,
1956, pp 47-97

ABSTRACT: Bibliographic entry.

Card 1/1

KORZHETSKIY, A.P., inzh.; VERIGIN, N.N., doktor tekhn.nauk, prof.; BINDEMAN, N.N., kand.geol-mineral.nauk; BOCHEVER, F.M., kand.tekhn.nauk; GRIGOR'YEV, V.M., kand.tekhn.nauk; NEDRIGA, V.P., kand.tekhn.nauk; SHESTAKOV, V.M., kand.tekhn.nauk.

Opinions of the book "Determining water inflow to foundation pits and designing drainage installations" by V.V. Kurilenko. Reviewed by A.P. Korshetskii and others. Gidr. stroi. 27 no.4:61-64 Ap '58.

(MIRA 11:9)

(Soil percolation) (Drainage) (Kurilenko, V.V.)

NEDRIGA, V.P.

Calculation of percolating flow around hydraulic structures
in the region of contact with the bank. Vop.fil'tr.rasch.gidr.
soor. no.3:5-65 '59. (MIRA 13:5)
(Soil percolation)

MEBRIGA, V.P.

Calculation of percolation in designing flood-plain earth
dams with two drains. Vop.fil'tr.rasch.gidr.soor. no.3:
121-154 '59. (MIRA 13:5)
(Soil percolation) (Dams)

MEDEIQA, V.P., kand.tekhn.nauk. Prinizels uchastiye SMAGINA, A.Ye., starshiy
tekhnik. LATYSHENKOV, A.M., kand.tekhn.nauk, nauchnyy red.; SAPONOV,
P.V., red.isd-vs; TRUKINA, Ye.L., tekhn.red.

[Conjugating sections of concrete dams] Sopriagayushchie ustroistva
betonnykh plotin. Moskva, Gos.isd-vo lit-ry po stroit., arkhit. i
stroit.materialam, 1960. 278 p. (MIRA 13:10)
(Dams)

NEDRIGA, V. P.

Doc Tech Sci - (diss) "Filtration in the cycle of hydraulic installations." Moscow, 1961. 42 pp; (Ministry of Higher and Secondary Specialist Education KDFSK, Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuvbyshev); 250 copies; free; (KI, r-61 sur, 212)

ABRAMOV, S.K., nauchnyy sotr.; NEDRIGA, V.P., nauchnyy sotr.;
ROMANOV, A.V., nauchnyy sotr.; SELYUK, Ye.M., nauchnyy
sotr. **Priznaniya uchastiya: SHERSHUKOVA, M.A., nauchnyy sotr.;**
SHERSHUKOVA, M.A., red. izd-va; GOL'BERG,
T.M., tekhn. red.

[Protection of land against inundation and the rise of the
ground water level] Zashchita territorii ot zatopeniya i
podtopleniya [By] S.K. Abramov i dr. Moskva, Gos. izd-vo
lit-ry po stroit., arkh. i stroit. materialam, 1961. 423 p.
(MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut vodonab-
zheniya kanalizatsii, gidrotekhnicheskikh sooruzheniy i in-
zhenernoy gidrogeologii (for all except Shershukova, Gol'berg).
(Hydraulic engineering)

NEDRIGAYLO, L. V., Cand of Med Sc -- (diss) "Change in the Kidneys During
Pneumonia in Children," Khar'kov, 1959, 12 pp (Khar'kov State Medical
Institute)(KL, 5-60, 130)

NEDRIGAYLO, L.V. [Nedryhailo, L.V.]

Removing urea from the blood in inflammation of the lungs in children as an index of kidney function. Ped. akush. i gin. no. 1:22-24 '60. (MIRA 13:8)

1. Kafedra gospiatal'no-fakul'tetskoy pediatrii (zav. - prof. V.O. Belousov) Khar'kovskogo meditsinskogo instituta (direktor - kand.med.nauk B.A. Zadorozhnyy).
(UREMIA) (LUNGS—DISEASES)

NEDRIGAYLOV, V., inzh.; GIMEYN, S.; LISITSYN, V.; LEBEDEV, Yu.; POGONIN, A.;
POTAPOV, P.

Technical information. Ochr. truda i sots. strakh. 6 no.7:41-46
Jl '63. (MIRA 16:10)

1. Starshiy inzh. laboratorii tekhniki besopasnosti Gosudarstvennogo vsesoyuznogo nauchno-issledovatel'skogo tekhnologicheskogo instituta remonta i ekspluatatsii mashinno-traktornogo parka (for Gimeyn).
2. Tekhnicheskiy inspektor Yaroslavskogo soveta professional'nykh soyuzov (for Potapov).

NEDRIGAYLOV, V.A.; KUPTSOVA, Z.V., red.

[Safety measures in operating earthmoving machinery] Tekhnika bezopasnosti pri rabote na zemleroiynykh mashinakh. Moskva, Inst-vo MSKh RSFSR, 1961. 11 p. (MIRA 15:4)
(Earthmoving machinery--Safety regulations)

NEDRIGAYLOV, V.A.; KUPTSOVA, Z.V., red.

[Safety measures in repair shops] Tekhnika bezopasnosti pri
rabote v remontnykh masterskikh. Moskva, Izd-vo M-va sel'.khoz.
RSFSR, 1961. 15 p. (MIRA 15:5)
(Agricultural machinery—Maintenance and repair)

GEL'CHINSKIY, M.L.; DEMAT, M.P.; RYAPOLOV, A.F.; TOKAREV, K.K.; CHIZHOVA, A.N.;
MEDRICAYLOV, V.G.; VITENBERG, V.I.; KELLER, Ya.K.; KOLOSOV, S.N.;
KAROVITSKIY, B.K.

Draw-pattern for erecting metal towers made of enlarged blocks. Rats. 1
isobr. predl. v stroi. no.119:27-29 '55. (MIRA 9:7)
(Towers)

NEKRIBNYE V.G.

AUTHORS: Demat, M.P. and Nedrigaylov, V.G. (Engineers) 100-5-3/10

TITLE: Machine for manufacturing welded cylindrical vessels from thin steel plate. (Ustanovka dlya izgotovleniya tsilindricheskikh svarnykh konstruktsiy iz tonkolistovoy stali).

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction), 1957, Vol.14, No.5, pp.9 - 12 (USSR).

ABSTRACT: This machine manufactures cylindrical measuring vessels of 2 - 5 m diameter and 2 - 4.5 m height, mainly for the requirements of the chemical industry. The sheet is made of stainless steel, approx.3 mm thick. The machine is fully automatic. The authors of this article designed the machine and supervised the construction of the same which was carried out by the Planning and Constructional Section of the Souzprommontazh (Proyektno-Konstruktorskoy Kontor Trest Soyuzprommontazh), authors' certificate No.102747 dated 14th March, 1956. The machine comprises a working platform, an auxiliary drum, a forming drum, a lifting tower and an electric telpyer which is placed along the working platform and serves the whole length of the machine. Some parts of the machine were designed in the Glavstal'konstruktsiya of the Minmetallurgkhimstroy. Characteristic parts of the lower gallery are 1 fixed and 6 removable

Card 1/2

Machine for manufacturing welded cylindrical vessels from thin steel plate. (Cont.) 100-5-3/10

boards containing electromagnets which hold down the steel sheets during the welding. The stainless steel is not attracted by the magnet and therefore a band of carbon steel is placed above the sheet to secure the sheet. An ancillary drum of 0.5 m diameter serves for the transportation from the top to the bottom level. The forming drum comprises 16 pairs of special, rectifying screws for the adjustment of the diameter of the forming drum. These screws are provided with curved anvils which perform the bending. The steel sheet is delivered by the telfer to the top platform where the size and angles are checked. A clearance of 0 - 3 mm is allowed in overlapping for the purpose of automatic welding of a 3 - 4 mm thick sheet. On the lower platform the welding of longitudinal and transverse joints takes place. After the welding the sheet is transported under the forming drum. This machine can also be used for ordinary steel sheeting of up to 6 mm thickness. There are 3 figures.

AVAILABLE:

Card 2/2

ZHMUR, N.S., inzh.; NEDRIGAYLOV, V.G.; SHAGOV, V.I.; MOLOKANOV, A.V.,
nauchnyy red.; ZVOZYKINA, L.N., red. izd-va; SHERSTNEVA, N.V.,
tekhn. red.

[Installation of technological equipment used in the main
processes of chemical plants] Montazh tekhnologicheskogo oboru-
dovaniia osnovnykh protsessov khimicheskikh zavodov. Moskva,
Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961.
346 p. (MIRA 15:2)

(Chemical engineering--Equipment and supplies)

NEBRIGAYLOV, N.P.

Universal centrator. Vest. rent. i rad. 32 no.1:48-50
supplement '57 (MLBA 10:5)

1. Iz Kurskoy oblastnoy klinicheskoy bol'nitsy i Kurskogo
meditsinskogo instituta.
(ROENTGENOLOGY, appar. and instruments
universal centrator)

MEDRIGAYLOV, V.P.

Enterovesical fistula in lymphosarcomatosis. Vest.rent. i rad. 73 no.3
66-68 My-Je '58 (MIRA 11:8)

1. Iz rentgenovakogo kabineta (sav. V.P. Medrigalov) Kurskoy oblastnoy
klinicheskoy bol'nitsy (glavnyy vrach A.M. Petrov).

(LYMPHOSARCOMA, compl.

generalized with enterovesical fistula (Rus))

(BLADDER, fistula

enterovesical in generalised lymphosarcoma (Rus))

(INTESTINES, fistula

same (Rus))

MEDRIGAYLOVA, O.V., starshiy nauchnyy sotrudnik

Changes in tissue structure of the support-and-locomotor apparatus during immobilisation and the effect of functions on restorative processes. Ortop., travm. i protes. 17 no.1:27-33 Ja-P '56.

(MIRA 9:12)

1. Iz Ukrainского nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I.Sitenko (dir. - zasluzhennyy deyatel' nauki prof. N.P.Novachenko)

(JOINTS, dis.

contracture, caused by immobilization)

(CONTRACTURE, etiol. and pathogen.

immobilisation)

NEDRIGAYLOVA, O. V. Doc Med Sci -- (diss) "Immobilization contours (changes
in the tissue structure of the support-motor apparatus during immobilization,
and restorative processes occurring under the influence of functions)."
Khar'kov, 1957. 27 pp (Min of Health, USSR. Khar'kov State Med Inst), 100
copies (KL, 4-58, 88)

NEBRIGAYLOVA, O.V., starshiy nauchnyy sotrudnik

Three-stage resection of the foot for treating drop foot (modification of Lambriudi-Fitzgerald-Seddon method); preliminary report. Ortop., travm. protes. 19 no.1:56-59 Ja-F '58. (MIRA 11:4)

1. Iz otdela fiziologii i patomekhaniki (zav. - st.nauchn.sotr. O.V.Nebrigaylova) Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I.Sitenko (dir. - chlen-korrespondent AMN SSSR prof. N.P.Novachenko)

(FOOT, paralysis

dropfoot, three-stage resection for elimination (Rus))

WEDRIGAYLOVA, O.V., starshiy nauchnyy sotrudnik.

Treatment of scoliosis; from data of foreign authors. Ortop.
travn. i protes. 19 no.4:68-75 JI-Ag '58 (MIRA 11:11)

1. Iz oddela patomekhaniki i fiziologii oporno-dvigatel'nogo
apparata (sav. st.nauch. sotrudnik O.V. Wedrigaylova) Ukrainskogo
nauchno-issledovatel'skogo instituta ortopedii i travmatologii imeni
M.I. Sitenko (dir. - chlen-korrespondent ANU SSSR prof. N.P. Novachenko).
(SCOLIOSIS, ther.
review (Rus))

NEBRIGAYLOVA, O.V.; doktor med.nauk; TYUTYUNNIK, I.F.

Change in the lability of rabbit muscles under immobilization.
Ortop.travn.i protes. 20 no.4:50-55 Ap '59. (MIRA 13:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii
i travmatologii im. M.I. Sitenko (dir. - chlen-korrespondent AN
SSSR prof. N.P. Novachenko).

(MUSCLES, physiol.

lability changes due to immobilization in
rabbits (Rus))

NEDRIGAYLOVA, O.V.. doktor med.nauk

Pathomechanic & principles of a functionally comfortable installation for the femur in stabilizing surgery of the hip joint and in corrective osteotomies. Ortop.travm. i protez. 20 no.0284-89 Ja 198. (MIRA 1983)

1. Iz otdela fiziologii i patomekhaniki (zaveduyushchiy - doktor med. nauk O.V. Nedrigaylova) Ukrainskogo nauchno-issledovatel'skogo instituta i travmatologii im. M.I. Pitenko (direktor - chlen-korrespondent AMN SSSR prof. N.P. Novachenko).

(HIP, surgery

hip placement in stabilizing surg. & corrective osteotomy (Ris))

NEDRIGAYLOVA, O.V., doktor meditsinskikh nauk

Pathomechanical studies of patients with sequelae of poliomyelitis and the significance of these studies in the choice of therapeutic measures. Ortop.travm.i protez. 21 no.4:38-43 Ap '60.

(MIRA 13:9)

1. Iz otdela patomekhaniki (sav. - O.V. Nedrigaylova) Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I. Sitenko (dir. - chlen-korrespondent AMN SSSR prof. N.P. Novachenko).

(POLIOMYELITIS)

NEDRIGAYLOVA, O.V., doktor med. nauk

Histomechanical characteristics (strength, tensility, elasticity) of the ligaments of the knee joint in connection with their traumatic injuries. Trudy Ukr. nauch.-issl. inst. ortop. i travm. no.15:303-310 '59 (MIRA 17:12)

1. Iz otdela fiziologii i patomekhaniki (zav. otdelom - doktor med. nauk O.V.Nedrigaylova) Ukrainского nauchno-issledovatel'skogo instituta ortopedii i travmatologii imeni prof. M.I. Sitenko (dir.- chlen-korrespondent AMN SSSR, prof. N.P. Novachenko).

NEDRIGAYLOVA, O.V., prof. (Khar'kov, Lermontovskaya ul., d.12, kv.4)

Restorative processes in closed fractures of the femoral shaft. Ortop., travm. i protez. 24 no.3:28-35 Mr '63.
(MIRA 17:2)

1. Iz otdela fiziologii i patomekhaniki (sav. - prof. O.V. Nedrigaylova) Ukrainskogo instituta ortopedii i travmatologii imeni M.I. Sitenko (dir. - chlen-korrespondent AMN SSSR prof. N.P. Novachenko).

Национальная, с. 7. ...

indications for ...

1. It should be ...

NEDUCHAL, Jozka

Mechanisation of managing and office work in communications.
Cs spoje 7 no.8:6-7 Ag '62.

1. Vypočetni laboratorie dopravy a spoju.

NEDUGCV, N. I.

Forestry Engineering

Fullest utilisation of machinery in cultivating work, Les. khos., 5 No. 3(42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952, Unclassified,

25(5)

PHASE I BOOK EXPLOITATION

SOV/1983

Nedumov, B. I.

Voprosy ritmichnosti proizvodstva na radiosavodakh (Regularity of Production at Radio-engineering Plants) Moscow, Gosenergoizdat, 1958. 79 p. 2,950 copies printed.

Ed.: V. I. Shanshur; Tech. Ed.: G.Ye. Larionov.

PURPOSE: This book is intended for the production planning staff of radio-engineering and instrument-building plants and for employees of sovnarkhozes (Soviet economy councils).

COVERAGE: The author has based this book on his personal industrial experience. He analyzes the basic causes of irregularities in factory production and recommends measures for their elimination. There are no references.

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Ch. 1. Regularity in Factory Operations and Production Card 1/3	4

Regularity of Production (Cont.)

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Ch. 7. Supply of Materials and Purchased Semifinished Products

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AVAILABLE: Library of Congress

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JP/fal
8-3-59

NEUMOV, Boris Ivanovich; SHAMSHUR, V.I., red.; BUL'DYAYEV, N.A.,
tekh. red.

[Organisation of intraplant operation and production planning in instrument manufacturing plants] Organizatsiia vnutrisavodskogo operativno-proizvodstvennogo planirovaniia na zavodakh priborostroeniia. Moskva, Gosenergoizdat, 1963.
206 p. (MIRA 16:7)

(Instrument industry--Management)

NEUMOV, I.B.

Origin of rare-metal pegmatites in a deposit of Siberia. Trudy
Dokl. Akad. Nauk SSSR 1962, 163:161-162. (MIRA 16:1)

(Siberia—Pegmatites)
(Siberia—Metals, Rare and minor)

SMIRNOV, Aleksandr Dmitriyevich; ~~MEDUNOV, Igor' Borisovich;~~
BULDAKOV, Vitaliy Vladimirovich; VLASOV, K.K., ~~inv.~~ red.;
LEONT'YEV, L.N., doktor geol.-miner. nauk, otv. red.;
PLATOV, N.A., ~~fred.~~ ~~isd-va~~; VOLKOVA, V.V., tekhn. red.

[R'phean structures in the Eastern Sayan Mountains and the
distribution of pegmatite zones in them] Rifeiskie struktury
Vostochnogo Saiana i polozhenie v nikh pegmatitovykh polei.
Moskva, Isd-vo AN SSSR, 1963. 152 p. (MIRA 16:7)

1. Chlen-korrespondent AN SSSR (for Vlasov).
(Sayan Mountains--Pegmatites)

GYANDZHUNTSEV, Yervand Tatevosovich, kand. ekon. nauk, dots.;
N. DUMOV, Boris Ivanovich, inzh.; SHTRUK, G. G.;
POMCHAYTSKIY, N. N.; ANDRIYANOV, D. I., doktor ekon. nauk,
prof., retsenzent; KUL'BERG, L. M., dots., kand. tekhn.
nauk, retsenzent; GORDON, A. L., red.

[Economics and organization of radio production] Ekono-
mika i organizatsiya radiotekhnicheskogo proizvodstva.
Moskva, Energiia, 1964. 360 p. (MIRA 17:10)

1. Zaveduyushchiy kafedroy ekonomiki i promyshlennosti Mo-
skovskogo aviatsionnogo instituta (for Andrianov).
2. Kafedra ekonomiki promyshlennosti Moskovskogo aviatsion-
nogo instituta (for Kul'berg).

18(6)

AUTHORS: Grigor'yev, A. T., Kuprina, V. V., SOV/79-4-7-21/74
Nedumov, N. A.

TITLE: The Phase Diagram of the System Chromium - Tantalum
(Diagramma sostoyaniya sistemy khrom - tantal)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 3,
pp 651-654 (USSR)

ABSTRACT: The system chromium - tantalum was investigated by the method of thermal and microscopic analysis. As initial product tantalum was used in a purity of 99.4 % and chromium in a purity of 99.68 %. Chromium diffuses extremely slowly in tantalum alloys. In order to attain the equilibrium a longer treatment at higher temperature is necessary. In the system the chemical compound Cr_2Ta is formed, which melts at $2,020^{\circ}$ without decomposing. The chemical compound Cr_2Ta dissolves the individual components to a hardly recognizable extent. It was found that the chemical compound Cr_2Ta forms a eutectic with solid solutions of chromium in tantalum at $1,980^{\circ}$ and 75 % tantalum. With solid solutions of tantalum

Card 1/2

PIKOVA, A.V.; KOROSTELEVA, M.M.; GALIVETS, I.S.; BYTAKOVSKIY, I.K.;
NEKOSHOVA, G.N.

Increasing the concentration of nitrogen oxide in smoke-gas
gas during aqueous purification. Khim. prom. 41 no. 10 (1965)
75) 0 '65. (MIRA) P. 1.

1. Inepetrovskiy nauchno-issledovatel'skiy institut khimicheskoy
mikrobiologii i gigeny i inepetrovskiy azbuzhnyy zavod.

NEDOSPASOV, A. V.

USSR/Physics - Sound of Rotation

Apr 52

"Theory of Sound of Rotation," A.V. Nedospasov,
Chair of Theoretical Phys, Moscow State U imeni
Lomonosov

"Zhur Tekh Fiz" Vol XXII, No 4, pp 579-584

Analyzes the accuracy of the assumptions usually
applied in computations of the sound of air pro-
pellers on a simple example of a rotating sphere.
Indebted to D.I. Blokhintsev. Received 15 Sep 49.

216906

LOMONOSOVA, L.S., inzhener; NEKOSPASOV, A.V., inzhener; NOVIK, A.Ye.,
inzhener.

Effect of admixtures of molecular gases on the radiation of
fluorescent lamps. Svetotekhnika 2 no.3:14-15 My '56. (MLRA 9:8)

1. Moskovskiy elektrolampovyy zavod.
(Fluorescent lamps)

Handwritten: N. V. Nedospasov

USSR/Electronics - Gas Discharge and Gas-Discharge Apparatus H-7

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 7151

Author : Nedospasov, V.
 Title : Theory of the Low Voltage Arc Region

Orig Pub : Zh. tekh. fiziki, 1956, 26, No 6, 1202-1207

Abstract : A diffusion theory is given for the cathode layer under the assumption that the ionization in the cathode region of a low-voltage arc takes place principally on the axis of the discharge, and also that the plasma is quasi-neutral. Formulas are obtained for the distribution of the field and of the potential in the cathode region, and also the current in its vicinity. The calculation results are in satisfactory agreement with the corresponding values obtained experimentally. The author indicates that it is possible to develop a similar theory for the description of stratified positive column. Bibliography, 8 titles.

Card : 1/1

Handwritten: Nedospasov, V.

APPROVED FOR RELEASE: Wednesday, June 21, 2000
 AUTHOR: Nedospasov, A.V. and Torgonenko, K.Ye.

CIA-RDP86-00513R001136
 109-4-15/20

TITLE: The Region of Low-voltage Arc in Inert Gases. (Oblast' niskovoльтnoy dugi v inertnykh gazakh)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.2, No.4, pp. 494 - 501 (USSR).

ABSTRACT: In an earlier work [Ref. 1] one of the authors attempted to give the theory of the low-voltage of low-pressure arc discharges. The resulting formulae were not very accurate and did not always agree with the available experimental data (e.g. see Ref.3). A new formula for the electric charge distribution in the low-voltage region of a cylindrical tube of radius r_0 is therefore proposed; the charge density as a function of radial and axial distances (r and z) is in the form:

$$n(r, z) = \dots \quad (5)$$

where μ_a satisfies the transcendental equation:

$$\mu J_1(\mu) = \dots \quad (6)$$

in which U_p and U_e are the temperatures of ions and electrons (expressed in electron-volts), λ_D is the mean free path of the ions and c is a dimensionless quantity which can be

Card 1/3

The Region of Low-voltage Arc in Inert Gases.

109-4-15/20

determined from the condition that Q is equal to the diffusion current at the walls of the tube; D_a is the diffusion coefficient. Eq.(5) can be used to derive an expression for the axial field in the tube and to determine the length D of the low-voltage arc. It is shown that:

$$D = \frac{r_0}{\mu_1} \ln \left(\frac{k b_e e_0 Q}{b_p i} \right) \quad (8)$$

where i is the current and $k = 2\pi c \mu_1 a_1$.

The low-voltage arc region was also investigated experimentally. The measurements were carried out in three cylindrical tubes (with diameters of 62, 36 and 23 mm) which were fitted with moving disc-shaped anodes; the cathodes were in the form of a small filament which could be heated in order to initiate an arc discharge; one of the tubes was fitted with a moving probe which was used in measuring the diffusion current at the walls. Length of the low-voltage arc was measured in Kr, Ar, Ne and Ar + Hg as a function of pressure p at a current of 0.3 A (Fig.4). It was found that D can be expressed as:

Card2/3

The Region of Low-voltage Arc in Inert Gases.

109-4-15/20

$$D = \frac{r_0}{a} \ln \frac{A}{p} \quad (10)$$

where a and A are constants. Density of the ion current diffusing to the walls was measured as a function of the distance from the cathode for gas pressures ranging from 2 to 10 mm Hg (Figs. 5 and 7). An experimental curve of the cathode-fall of potential as a function of pressure was also taken (Fig.8). The theory and the experimental data given in this article are only very loosely related.

There are 8 figures and 7 references, of which 6 are Slavic.

ASSOCIATION: Moscow Electric Bulb Plant
(Moskovskiy Elektrolampovyy Zavod)

SUBMITTED: October 26, 1956.

AVAILABLE: Library of Congress.

Card 3/3

WILSON, J. V., "The History of the ..."
and "The ... of ..."
... of ...
... (KI, 22-1, 2)

■ NEDOSPASOV, A. V.

"The Nature of Striae in a Positive Column."

paper presented at Second All-Union Conference on Gaseous Electronics, Moscow,
2-6 Oct '58.

Недопущено А.В.

04(7) 087/700

1. Rev. Introduction

Materials of the 10th All-Union Conference on Spectroscopy, 1956.
S. D. Zhuravskiy, Spectroscopy (Materials of the 10th All-Union Conference on Spectroscopy, 1956, Vol. 2, Spectroscopy)
Moscow: Mashinostroyeniye, 1956, 568 p. (Series: No. 100)
Additional Publishing Agency, Moscow, 1956. 3,000 copies printed.

Editorial Board: S. D. Zhuravskiy, Academician (USSR, M.);
S. G. Kravchenko, Doctor of Physical and Mathematical Sciences;
I. A. Kuznetsov, Doctor of Physical and Mathematical Sciences;
V. A. Kuznetsov, Doctor of Physical and Mathematical Sciences;
Candidate of Physical and Technical Sciences, S. B. Kuznetsov;
Candidate of Physical and Technical Sciences, L. F. Kuznetsov;
Candidate of Physical and Mathematical Sciences, V. F. Kuznetsov;
Candidate of Physical and Mathematical Sciences, A. Ye.
Kuznetsov; Doctor of Physical and Mathematical Sciences,
M. I. Kuznetsov, Tech. Sci. F. V. Kuznetsov.

This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

Summary: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy, including: atomic emission, absorption, fluorescence, photochemical methods of controlling atomic emission, physical and chemical methods of gas discharge spectroscopy, and the combustion theory, spectrum analysis of ores and alloys, spectral determination of the hydrogen content of ores and alloys, spectral determination of the content of spectral lines, spark spectrographic analysis, statistical study of lines, spark spectrographic analysis, curves, determination of lines in the parameters of calibration metallography, thermodynamics in metallurgy, and principles and practice of spectrochemical analysis.

Card 2/31

087/700

Materials of the 10th All-Union Conference (Cont.)

- Belikov, L.S., and A. Kostin. Studying the Photometric Characteristics of Photon Counters 197
- Mal'kov, A.A., V.A. Bryzhanin, A.Ye. Kirylovich, and V.B. Yelenskiy. Certain Changes in the Design of the DPA-1 Spectrometer Recording System for the Purpose of Resolving the Isotope Shift in the Lithium Resonance Line 199
- Vorobii, A.S. Flame Spectrophotometer 197
- Pobedimskiy, I.V., and E.S. Gurevich. Radiation from the Explosion of a Wire Under Water 199
- Kuznetsov, L.S., A.I. Zhuravskiy, and A.Ye. Borik. Effect of Molecular Gas Mixtures on Low-pressure Mercury Discharge Radiation 201
- Pobedimskiy, I.V., and L.S. Gurevich. Coarse Error Calculation for Studying Absorption in Light Sources 204

LONOMOVA, L.S.; MEDOSPASOV, A.V.; NOVIK, A.Ye.

Effect of admixtures of molecular gases on the radiation of a
low-pressure mercury vapor discharge. *Fiz.sbor.* no.4:201-204
'58. (MIRA 12:5)

(Gases, Rare)

(Mercury--Spectra)

ADOSPANC, 4 1

AUTHOR: Nedonjasov, A. V.,

TITLE: On Strata in Inert Gases (K voznikn'ju strat v inertsykh gazakh)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, No. 1, pp. 111-117 (USSR)

ABSTRACT: The present work confirms theoretically the concept, expressed earlier by B.N. Kiyarfel'd (ref.1) on the physical nature of strata in inert gases. A solution is found for the problem stated. A method of computation is suggested without a linearization of the plasma equations. The distribution of the concentration of the electrons and the distribution of the electric longitudinal field is found. The formula for the periodicity (1.12) of the strata is derived. The experimental results of Stewart (ref.3) on the strata moving in argon served as basic data. Finally, the formulae for the product of strata frequency and valve radius and for strata frequency, are obtained. Both express the dependence found by Papp (ref.12). The author carried out the measurements of the strata characteristic in argon at different pressures with the cooperation of V.S. Roman. A detailed report on these measurements will be given in a separate work. The dependence of frequency f_0 found here is in entire quantitative agreement with the results of Papp. f - strata frequency, r_0 - valve radius. (1.12) 111-117

Card 1/2

On Strata in Inert Gases.

discussed with Prof. A. A. Gerasimov and A. A. Gerasimov.
There are 1 figure, and 13 references, 2 of which are Soviet.

ASSOCIATION: Moscow works for the Production of Electra Valve (Moskovskiy
elektrovalovyy zavod)

SUBMITTED: April 15, 1957

AVAILABLE: Library of Congress

Card 1/2

AUTHOR: Nedospasov, A. V. SOV/56-34-5-50/61

TITLE: On the Problem of the Ambipolar Diffusion in a Magnetic
Field (K voprosu ob ambipolyarnoy diffuzii v magnitnom
pole)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol. 34, Nr 5, pp. 1338 - 1339 (USSR)

ABSTRACT: The main characteristics of the low-voltage arc-over are de-
termined by the ambipolar diffusion from the domain of the
cathode spot into a radial and also into an axial direction.
If the domain of the low-voltage arc-over is brought into a
homogeneous longitudinal magnetic field with the field
strength H , then the distribution of the electron concentration
of the current on the wall and also the dimensions of the
domain of the low-voltage arc-over vary in dependence upon
the ratio $D_{||}/D_{\perp}$ of the components parallel and vertical to
the magnetic field. This makes it possible to determine the
magnitude of this ratio at different values of H . The ion
current on the wall in particular varies in a certain inter-
val of the values z according to the law

Card 1/3

SOV/56-34-5-50/61

On the Problem of the Ambipolar Diffusion in a Magnetic Field

$$j_{\perp} = c \exp\left(-\frac{1}{r_0} \frac{z}{D_{\perp}}\right) \quad \text{where } r_0 \text{ denotes the radius of the}$$

tube, z - the coordinate on the axis of the tube, and λ the eigenvalue of the boundary problem, which can be determined from the measurements in the case of $H = 0$. In collaboration with G. I. Pankova the author determined the distributions of the ion current density on the wall in the domain of the low-voltage arc-over for different values of H . The method of measurement was analogous to the method described by the author in a previous paper (Ref 2). The general picture of this new distribution is illustrated in a diagram which is drawn for an argon pressure of 0,7 torr. The electrons proceed in diffusing along the axis because the diffusion to the walls is decelerated in the magnetic field. On this occasion j_{\perp} increases in the magnetic field at a certain distance from the cathode. A second diagram illustrates the change of D_{\perp}/D_{\parallel} and this diagram perfectly agrees with the corresponding classical formula. This method as compared to the methods

Card 2/3

On the Problem of the Ambipolar Diffusion in a Magnetic Field SOV/56-34-5-50/61

in publications has the advantage that the concentration of the electrons in the plasma need not be measured. Hence, the decrease of D_{\perp} is not accompanied by a just as great decrease of the diffusion current on the wall, when the longitudinal inhomogeneity is disturbed. There are 2 figures and 6 references, 4 of which are Soviet.

SUBMITTED:

February 1, 1958

- 1. Magnetic fields--Electrical effects
- 2. Ionic current
- Measurement
- 3. Mathematics--Applications

Card 3/3

KADOMTSEV, B.B.; NEDOSPASOV, A.V.

[Instability of a positive column in a magnetic field,
and "anomalous" diffusion] Neustoiichivost' polozhitel'-
nogo stolba v magnitnom pole i "anomal'naiia" diffuziia.
Moskva, In-t atomnoi energii, 1959. 14 p. (MIRA 17:2)

NEDOSPASOV, A.V., kand.fiz.-mat.nauk; LOMONOSOVA, L.S., inzh.; KOVIK,
A.Ye., inzh.

Cathode emission in fluorescent lamps. Svetotekhnika 5
no.9:7-9 S '59. (MIRA 13:2)

1. Moskovskiy elektrolampovyy zavod.
(Flourescent lamps)

AUTHORS [Faint text]
 TITLE [Faint text]
 PERIODICAL [Faint text]
 ABSTRACT [Faint text]
 Card 1 of 1

10/1/68

SECRET

TO: DIRECTOR, CIA
FROM: SAC, [illegible]
SUBJECT: [illegible]

[The following text is extremely faint and largely illegible due to the quality of the scan. It appears to be a memorandum or report detailing an investigation or intelligence gathering activity.]

Card 2

The following is a list of the...

...

$$I = \frac{2\pi r_0 H_0}{S}$$

where r_0 = radius of the circular aperture;
 H_0 = magnetic field strength;
 S = cross-sectional area of the aperture;
 P = power of the radiation;
 (GTR, X(1), ...);
 ... (D) ...

Card 3/9

Investigation of a discharge in a tube

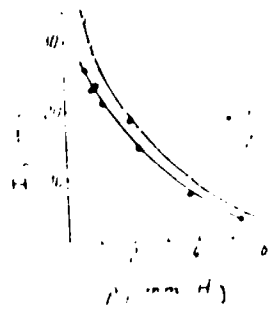


Fig. 1. Ion current I_0 on the wall in one stratum ring versus area current. Discharge current: (•) 100 mA; (○) 150 mA. Diameter of the discharge: (—) 1.5 mm; (---) 2.0 mm.

Quantity I_0/I_1 versus discharge current

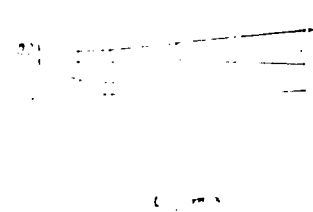


Fig. 2. Quantity I_0/I_1 versus discharge current. At average pressure: (1) 1.5 mm Hg; (2) 2.0 mm Hg; (3) 1.5 mm Hg; (4) 2.0 mm Hg.

Card 4/9

Investigations of Strontium in Arsenic

17349
507/57-30-1-18/18

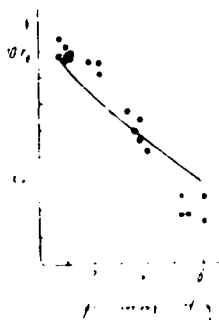
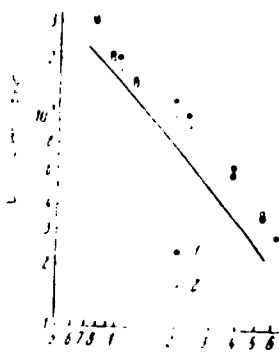


Fig. 1. Dependence of the concentration of strontium on the concentration of arsenic in the soil. The points are the results of the analysis of the soil samples; the curve is the calculated dependence.

Card 5/9

Investigation of ...

...



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() ... () ...

...

Electron emission characteristics of Au-100

7521
10/10/53 - 1-15/58

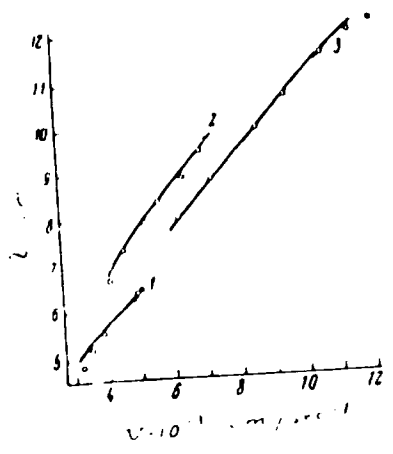


Fig. 1. Electron emission characteristics versus field velocity. Curves 1, 2, and 3 are obtained with field differences of 1000 V/cm. (1) anion pressure 2 mm Hg, discharge current 100 ma; (2) anion pressure 4 mm Hg, discharge current 100 ma; (3) anion pressure 6 mm Hg, discharge current 100 ma. The diameter is 0.5 mm.

Card 7/9

Investigations of Strahlung in Atmos

1958
SOV/57-2-1-18-18

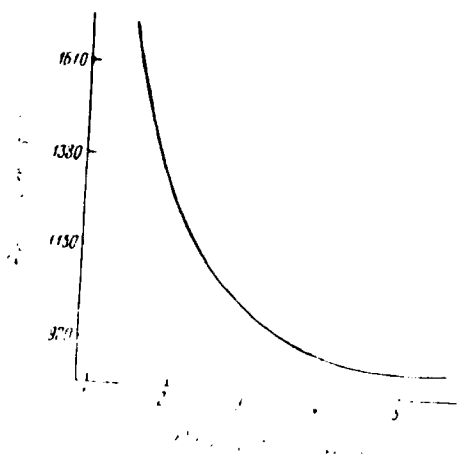
1958). Curve on Fig. 7 also agrees well with the theoretical predictions. Errors were usually not worse than 5%. A. A. Zaytsev gave advice and discussed the paper. There are 6 figures; and 8 references, 4 Soviet, 1 German, 1 U.K., 2 U.S. The U.K. and U.S. references are: V. D. Farris, Proc. of Phys. Soc., B, 70, 381, 1955; A. P. Stewart, J. of Appl. Phys., 37, 411, 1966; V. D. Farris, J. of Electronics, 1, 3, 1, 1955.

SUBMITTED: October 2, 1958

Card 6/9

Investment Loss of F. St. ...

...



...

84561

S/057/60/030/011'004/009
B006/B054

9, 4120 (1105, 1138, 1140)

AUTHORS: Nedospasov, A. V. and Novik, A. Ye

TITLE: Propagation Velocity of the Ionization Front in Spark-over
in Long Discharge Tubes

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30 No. 11,
pp. 1329-1336

TEXT: The authors report on experimental studies of phenomena appearing in spark-over in long ($l \gg r$) gas discharge tubes with a fast voltage increase ($10^5 - 10^6$ v/sec). Above all, the authors studied the ignition processes under conditions similar to those with ignition of luminescence tubes, without a starter, and determined the dependence of the velocity of the ionization front on various conditions. At first, they describe the experimental arrangement (circuit diagram - Fig. 1), and discuss the method of measurement. The tubes had diameters of 15, 25, and 38 mm, and lengths of 47, 88, and 120 cm, respectively, and were filled with chemically pure argon (0.5 - 10 mm Hg). The measurement results are shown in diagrams. Fig. 2 shows current oscillograms obtained from a set of Al foil

Card 1/3

84561

Propagation Velocity of the Ionization Front S/057/60/030/011/004/009
in Spark-over in Long Discharge Tubes B006/B054

capacitor plates. These plates, being arranged along the discharge tubes at half the tube diameter, had a length equal to the diameter of the tubes. Fig. 3 shows the dependence of the displacement time (in μsec) of the ionization front on the distance (in cm) from the ignition electrode; Fig. 4 shows the dependence of the velocity of the ionization front on the amplitude of the voltage applied (800 - 1400 v); Fig. 5 shows the dependence of the velocity of the ionization front on the frequency of the voltage (50 - 200 cps); Fig. 6 shows the pressure dependence of the velocity of the ionization front (0.5 - 10 mm Hg); and Fig. 7 shows the pressure dependence of the charge hitting 1 cm of the tube wall. Figs. 3, 4, 5, and 7 (approximately) show ascending straight lines, and Fig. 6 shows a hyperbolic branch. In the last part of the paper, the authors first discuss the processes leading to a discharge, after which they give a theoretical interpretation and discussion of the results. The short discharges between the electrode and the walls along the tube are accompanied by ionization and the formation of primary plasma. The rate of this process is determined by the kind and pressure of the gas, the tube diameter, the wall capacity and the rate of variation of the electrode potential. G. V. Spivak and Ye. L. Stolyarova are mentioned. There are 8 figures, 1 table and

Card 2/3

Propagation Velocity of the Ionization Front
in Spark-over in Long Discharge Tubes

04561
S/O 7/60/030/011/004,009
B006/B054

15 references: 7 Soviet, 3 German, 4 US, and 1 British

SUBMITTED: April 20, 1960

X

Card 3/3

1.2-53

24 (740)

S/089/62/013/005/005/012
B102/B104

AUTHOR: Nedospasov, A. V.

TITLE: Local field inhomogeneities in magnetic mirror traps

PERIODICAL: Atomnaya energiya, v. 13, no. 5, 1962, 472-473

TEXT: Magnetic field inhomogeneities leading to changes of the adiabatic invariant $I = v_1^2/H$ and caused e. g. by the ion injector in "Ogra" or "Ogrerok" devices are considered. These changes are now estimated on the assumption that the ions are scattered from small dipole perturbations whose moments are parallel to the fundamental field. For

$$\dot{v} = \frac{e}{mc} |vH|, \tag{1}$$

$$H = H_0 + h. \tag{1}$$

$$h = \frac{3(Mr)r}{r^3} \frac{M}{r^2} \tag{2},$$

Card 1/4

Card 2/4

Local field inhomogeneities in ...

S/089/62/013/005/005/012
B102/B104

where α is the phase angle at which the particle passes through the plane $z=0$ and i is the angle of inclination of the velocity vector to a plane which is perpendicular to the magnetic field. $f(\alpha)$ was computed for $b^2 = 0.18, 0.35$ and 0.5 . The first value corresponds approximately with the injection angle of "Ogra" and "Ogrenok". If multiple scattering is taken into account, one obtains for the "stochasticity condition" (cf. Atomnaya energiya, v. 6, no. 6, 630, 1959) the hypothetical inequality (7): $\sigma_{\parallel}/v_{\parallel} \geq 2\pi e_{\perp}/L$. L is the path between two scattering events. For "Ogra" $e_{\perp}/L = 1 \cdot 10^{-4}$ and for "Ogrenok"

$e_{\perp}/L = 5 \cdot 10^{-4}$, so that $\sigma_{\parallel}/v_{\parallel} \gg 2 \cdot 10^{-3}$. If $\Delta I^2/I^2 \geq 10^{-1}$ particles will escape through the mirror. If the field perturbation is characterized by $\beta = H_{\text{dipole}}/H_{\text{fund}}$, the approximate shape of the $\beta(y)$ -curve may be found. It has a minimum somewhere between $y=0.3$ and 0.5 . The condition (7) is satisfied in "Ogra" for $\beta \approx 1\%$, in an axisymmetric field it is violated. There are 3 figures.

SUBMITTED: July 9, 1962
Card 3/4

Local field inhomogeneities in ...

S/089/62/013/005/005/012
B102/B104

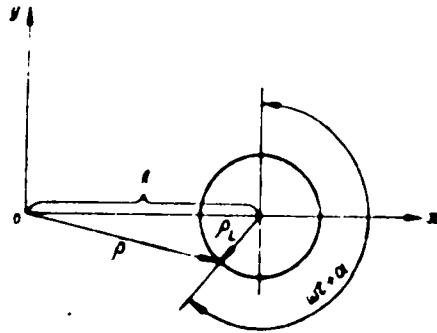


Fig. 1

Card 4, 4

S/057/62/032/007/004/013
B104/B102

AUTHORS: Vdovin, V. L., and Nedospasov, A. V.

TITLE: Current instability of a positive column in a magnetic field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 7, 1962, 817-822

REMARKS: B. B. Kadomtsev and A. V. Nedospasov (J. Nucl. Energy, part C, Plasma Physics, 1, 230, 1960) showed that an instability of the form $f(r)\exp(i(n\psi + kz - \omega t))$ was established in the positive column of a gas discharge subjected to a sufficiently strong, longitudinal magnetic field, and that an azimuthal electric field was generated. A particle drift toward the wall is observed. The critical pressures for the appearance of these instabilities when discharges occur in He, H₂, Ne, Ar, Hg are calculated in the present paper on the basis of Nedospasov's theory and are compared with experimental data. It is shown that the instabilities discovered by P. C. Hoh and B. Lehnert (Report IIIb, 25, on the Fourth Intern. Conf. on Ionisation Phenomena in Gases. Uppsala, 1959;

Card 1/2

Current instability of a positive ...

S/057/62/032/007/004/013
B104/B102

Physics of Fluids, 3, no. 4, 600, 1960) can be described by the method
here suggested. There are 6 figures.

SUBMITTED: June 13, 1961

Card 2/2

ARTEIMOVICH, L.L.; NEDOSPASOV, A.V.

Radial distribution of a positive column of plasma in a magnetic field. Dokl. AN SSSR 145 no.5:1022-1024 '62. (MIRA 15:8)

1. Predstavleno akademikom M.A. Leontovichem.
(Plasma (Ionized gases)) (Magnetic fields)

ACCESSION NR: AP4025926

S/0056/64/046/003/0926/0928

AUTHORS: Nedospasov, A. V.; Ponomarenko, Yu. B.

TITLE: Concerning the amplitude and form of strata

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 926-928

TOPIC TAGS: plasma, positive column, plasma strata, positive column strata, confined plasma, plasma equilibrium, growing plasma waves, stationary plasma waves, sinusoidal strata, relaxation strata, negative strata, critical point, critical surface

ABSTRACT: The range of plasma parameters in which strata of a positive column can exist is considered qualitatively and is represented by a closed surface in the space of the parameters R , I , and p (R -- tube radius, I -- discharge current, p -- pressure). When any of the parameters passes through this boundary the plasma equilibrium

Card 1/2

ACCESSION NR: AP4025926

is disturbed and the interaction between the growing waves with different wave numbers results in stationary waves which constitute the strata. Conditions under which sinusoidal, relaxation, and negative strata are produced are analyzed from the point of view of the variations of the parameters on going through the critical points in various regions of the critical surface. The need for further experimental research is pointed out. "The authors are grateful to A. A. Vedenov and M. A. Leontovich for discussions." Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physicotechnical Institute)

SUBMITTED: 01Aug63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: PH

NO REF SOV: 006

OTHER: 007

Card 2/2

Исследование, выполнено: А.М. КНК, Ю.Б.

Stability of the equilibrium state of a positive column of
discharge. Tekhniz. vys. temp. 3 no.1:17-22 Jan '65.

(K) 1965

U.S.S.R. Moskovskiy fiziko-tekhnicheskii Institut.

L 53/16-65 EPI (n)/EPF(n)-2/EPG(m)/EPH... WH/AT
 ACQUISITION NRI: AP5010457 UR/0294/65/003/002/0186/0190 46
 533.932.15:537.312.8 43

AUTHORS: Nedospasov, A. V. (Moscow); Shipuk, I. Ia. (Moscow) 21 B
 TITLE: Investigation of the conductivity of a plasma in a transverse magnetic field

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 2, 1965, 186-190

TOPIC TAGS: plasma conductivity, plasma electron collision, plasma instability, Hall effect

ABSTRACT: The dependence of the effective conductivity of a plasma perpendicular to the direction of the induced electric field on the product of the Larmor frequency of the electrons by the average time between their collisions with the atoms ($\omega\tau$), and the dependence of the Hall electric field on the same product, were measured by two independent methods. The experimental setup is illustrated in Fig. 1

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of the Enclosure. The value of $\omega\tau$ was determined from the electron temperature, which was found to be independent of the magnetic field and equal to 0.5 eV within 20 per cent. The electric field intensities were measured with electrostatic probes at a floating potential. The relative change in the electron density was determined by measuring the ion current with a double probe. The experimental data were checked against calculations made by two independent methods and found to agree with theory. The results show that the effective conductivity perpendicular to the magnetic field decreases with increasing $\omega\tau$ more rapidly than allowed for by the finite size of the section- alized electrodes. The reason for this decrease is the value of the Hall field intensity, which becomes stationary with increasing $\omega\tau$. The conductivity decreases like $(\omega\tau)^{-1}$ in the case of large $\omega\tau$. This is attributed to the occurrence of ionization instability. 'The authors thank Ye. P. Velikhov and A. M. Dykhne for useful discussions and N. Kosyreva for measuring the electron temperature.' Original article has: 11 figures and 4 formulas

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L 63616-65

ACCESSION NR: AP5010457

ASSOCIATION: None

SUBMITTED: 19Sep64

ENCL: 01

SUB CODE: ME

NR REF SOV: 005

OTHER: 002

Card 3/4

L 63616-65

ACCESSION NR: AP5010457

ENCLOSURE: 01

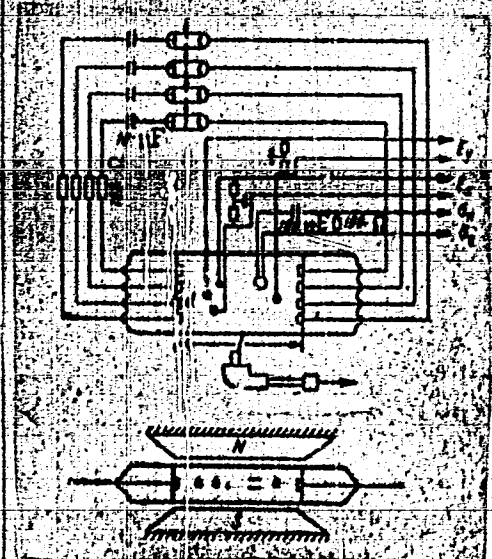


Fig. 1. Diagram of experimental set-up

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ACC NR: AP6033409

SOURCE CODE: UR/0057/66/036/010/1758/1767

AUTHOR: Nedospasov, A.V.

ORG: none

TITLE: Helium discharge positive column in a strong magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1758-1767

TOPIC TAGS: gas discharge plasma, helium plasma, plasma magnetic field, plasma instability, plasma oscillation, positive column, spectrum, correlation function

ABSTRACT: In order to investigate the transition of the positive column of a gas discharge in a magnetic field from the condition of current-convective instability that obtains at magnetic field strengths close to a critical value to the turbulent condition that prevails at much higher magnetic field strengths, the authors have recorded with probes the oscillations in the positive column of a hot cathode helium discharge in a 3.1 cm diameter 180 cm long tube in magnetic fields up to 6 kOe extending over 120 cm of the length of the discharge tube. Three 12 mm long 0.3 mm diameter molybdenum probes were mounted at different points on the axis of the discharge tube, and two similar probes were mounted at different distances from the axis opposite two of the axial probes. The spectra of the signals from the probes and the correlation functions of the signals from different pairs of probes were recorded. Twenty-six of the recorded spectra and correlation functions are presented graphically

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ACC NR: AP6033409

and are discussed at some length. Three types of oscillations were distinguished: current-convective oscillations with a discrete spectrum, which appeared as expected at the critical magnetic field strength and behaved in accordance with the theory; low frequency oscillations with frequencies of a few kilohertz associated with propagation of waves from the axis to the wall of the discharge tube, the propagation velocity being 3×10^5 cm/sec at a magnetic field strength of 5.6 kOe; and oscillations with frequencies of several tens of kilohertz, which first appeared when the magnetic field was slightly inclined to the axis of the discharge tube and was of such a strength that the ion Larmor frequency was approximately equal to the ion collision frequency. Possible causes of the different oscillations are discussed. Orig. art. has: 2 formulas and 12 figures.

SUB CODE: 20

SUBM DATE: 17Sep65

ORIG. REF: 007 OTH REF: 005

Card 2/2

NEDOSPASOV, V.V.

Once more on Georg Forster. Bot. zhur. 45 no.4:617-618 Ap '60.
(MIRA 14:5)

(Forster, Georg 1754-1794)

NEDECS TAYEV, M.I.

5746) **STATISTICHESKOYE USTROYENIYE PROMyshLENNOY PROMYSHLENNOSTI**

Statisticheskoye ustroyeniye v mashinostroyeniye, ego razvitiye i organizatsionnyye voprosy (statisticheskoye ustroyeniye i statisticheskoye ustroyeniye v mashinostroyeniye) (Application of the Statistical Control of Production Quality and Control of Technological Processes) Moscow, Mashgiz, 1958. 128 p. 7,000 copies printed.

Redaktors: A.G. Surikov, Direktor, Leningradskiy Nauchnoyey Statisticheskoyey Shkoly; A.G. Surikov, Direktor, Leningradskiy Nauchnoyey Statisticheskoyey Shkoly; M.I. Tayev, Direktor, Nauchnoyey Statisticheskoyey Shkoly; M.I. Tayev, Direktor, Nauchnoyey Statisticheskoyey Shkoly.

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1. WEDOSTUP, F. I.; ZBYGERMAKHER, G. A.
2. USSR 600
4. Mumps
7. Mumps, Peditria, No. 6, 1952. pp. 53-55
"Concerning Epidemic Parotitis,"

The authors describe their observations on a group of patients with epidemic parotitis in an Odessa hospital. They state that, as a rule, this disease is more common among children of school age. In this instance, adults comprised 38.3% of all cases. The epidemic usually assumes max. proportions in March-May. Standard complications encountered have been meningitis in children and orchitis in male patients. The prognosis has been good in the majority of cases.

Chair of Infectious Diseases, Odessa Med. Inst.

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

STEPINA, N.G. [Stepina, N.H.]; NEDOSTUP, F.I.

Method for early mud treatment in pontine forms of poliomyelitis.
Ped., akush. i gin. 22 no.3:13-15 '60. (MIRA 14:4)

1. Kafedra infektsionnykh detskikh bolezney (sav. - dotsent N.G. Stepina [N.H.Stepina]) Odesskogo meditsinskogo instituta im. M.I. Pirogova (direktor - zaslushennyy deyatel' nauki prof. I.Ya.Deyneka) i klinicheskoy infektsionnoy bol'nitsy (glavnyy vrach - L.F. Zhidovlenko).

(BATHS, MOOR AND MUD)

(POLIOMYELITIS)

STEPINA, N.G.; GONCHARUK, A.M.; NEDOSTUP, F.I.

Fangothrapy in poliomyelitis in children. Vop. kur., fizioter.
i lesh. fiz. kult'. 30 no.3:268-269 My-Je '65.

(MIRA 18:12)

1. Kafedra infektsionnykh bolezney detskogo vozrasta (zav.-
detsent N.G. Stepina) Odesskogo meditsinskogo instituta i
Odesskaya klinicheskaya infektsionnaya bol'nitsa (glavnyy
vrach L.T. Zhidovlenko). Submitted June 20, 1963.

NEBOSTUP, G.A.; PROKOP'YEV, F.N.; KHOLIN, A.I.; TSITOVICH, A.P.

Use of differential gamma spectrometry in petroleum geology.
Prikl. geofiz. no.23:193-201 '59. (MIRA 13:1)
(Oil well logging, Radiation)

NEDOSTUP, G. A.

Gamma ray scintillation spectrometer for the exploration
of boreholes. Geofis. rasved. no.12:120-127 '63.
(MIRA 16:11)

L 20162-44 (1) (m) ACC NR: AP6018910 (N) SOURCE CODE: UR/0170/66/010/006/0783/0788 4

AUTHOR: Nedostup, V. I.

ORG: Institute of Naval Engineers, Odessa (Institut inzhenerov morskogo flota)

TITLE: Method of correlation of the law of corresponding states for calculation of the thermodynamic properties of real gases and their mixtures

SOURCE: Inshenerno-fisicheskiy zhurnal, v. 10, no. 6, 1966, 783-788

TOPIC TAGS: real gas, thermodynamic property, correlation function

ABSTRACT: A method of correlation of the law of corresponding states has been described. The method permits one to use the similarity point and data on Boyle's curve to calculate the thermodynamic properties of gases and their mixtures with acceptable accuracy. The quantity λ is used as the parameter depending on the properties of the materials. The quantity λ is found from equation $\lambda = b'(v_0^2 - v_0)$. Orig. art. has: 5 formulas and 3 tables. [Based on author's abstract] [NT]

SUB CODE: 20/ SUBM DATE: 01Jun65/ ORIG REF: 003/ OTH REF: 008

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UDC: 536.7