

CONTENTS AND PROPERTIES INDEX

B-7 - 8

(Pine-tree) tapping trials in U.S.S.R. I.
 K. M. GUDIN and N. A. OZBERGUY, II. M. VASCOMKI,
 III. L. A. IVANOV, and L. N. CHAYKINIKOVA (Bell.
 Inst. Pa. 1994, 199-204, 209-214, 218-223).—
 A summary and review of work published in 1994 by
 the Moscow District Institute for research on forest
 products, types of pine suitable for tapping,
 tapping methods and technique, and yields of elec-
 trolytic products from different processes are given, and the
 results analysis of various obtained from various
 (Russian) sources and by different methods are re-
 corded.

U. S. S. R.

ADD-555 METALLURGICAL LITERATURE CLASSIFICATION

U. S. S. R. METALLURGICAL LITERATURE CLASSIFICATION

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COULBERT, R. W., TAIKHE, I. G., WISEMAN, R. G., and SHENKOV, G. I.

"The ecological conditions of the spread of natural foci in the northeastern and eastern European region," p. 260.

Desyatoye soveshchaniye po voprosu "Molekulyarnaya i epidemiologicheskaya biologiya." 22-29 Okt'yabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1. 254pp.

Antiplague Inst., Rostov-on-Don

OSLOBE, J., inž., doktor technických ved

Commemorating the 60th birthday of professor Ladislav Reiss. **TI** tech
obzor 51-no.12:671-672 D '62.

1. Clon korespondent Ceskoslovenske akademie ved.

OSOLINKER, B.Ye.

Certain features of the preventive measures applied in Gurev Province and the problem of the eradication of natural foci of plague in the area located between the Volga and Ural Rivers. Zhur.mikrobiol.epid.i immun. 31 no.9:53-57 S '60. (MIRA 13:11)

1. Iz Gur'yevskoy protivochumnoy stantaii.
(GUREV PROVINCE--PLAGUE)

SHIRANOVICH, P.I.; MOLODOVSKIY, A.V.; OSOLINKER, B.Ye. [deceased];
DEREVYANCHENKO, K.I.; SAMARIN, Ye.G.

Microclimate of the burrows of the greater gerbil *Rhombomys*
opimus Licht. Zool.zhur. 44 no.8:1245-1254 '65. (MIRA 18:11)

OSOLODKIN, A.

Methodological commission of metallurgists. Prof.-tekh.obr. 1^o
no.4:24 Ap '62. (MIRA 15:4)

1. Master proizvodstvennogo obucheniya tekhnicheskogo uchilishcha
No.4, g. Cherepovets.
(Cherepovets--Steelworkers--Education and training)

OSOLODKIN, Yu.N. (Leningrad, M-19, Borovaya ul. 4, S-121, kv. 11)

Surgical treatment of a fracture of the articular process of the scapula. Ortop., travmatol. protok. 1977, no. 4, 47-48.

1. Iz kafedry travmatologii i ortopedii Kazanskogo gos. univ. (Kazanskaya gos. meditsinskaya akademiya) i. i. Krupko, V. I. Gerasimov, M. I. Kiselev, S. M. Kirova.

CRISTYAKOVA, M. B.; OSOLODEKINA, G. A.; RAZMANOVA, Z. F.

Milarite from central Kazakhstan. Dokl. AN SSSR 1964 no. 1:1376-1378
D 164 (MIRA 18:1)

1. Mineralogicheskiy muzey im. A. Ye. Fersmana AN SSSR. Pred-
stavleno akademikom N.V. Belovym.

OSOLODKOV, G.A.; TATAROVA, M.G.

Combined treatment of products with a high content of nickel
silicate. Zap. LGI 42 no.3:85-89 '69. MIA, 1969

OSOLODKOV, G.A.

Evaluation of the efficiency of separating complex ores.

Zap. IGI 42 no.3:128-137 '63.

(MIRA 17:10

OSOLODKOV, G.A.

Detection of small quantities of xanthogenate in aqueous solutions
by the potentiometric titration method. Zav. lab. 2) no. 6:744 Je '57.
(MLBA 10:8)

1. Leningradskiy gornyy institut.
(Titration) (Xanthogenates)

AUTHOR OSOLODKOV, G.A.,
TITLE On the Determination of the Small Quantity Content of Xanthogenate in Aqueous Solution by Means of the Method of Potentiometrical Titration.
(Ob opredelenii malykh kolichestv ksantogenata v vodnykh rastvorakh metodom potentsiometricheskogo titrovaniya -Russian)
PERIODICAL Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 764 (U.S.S.R.)
ABSTRACT The author criticizes the publications of I.N.Plaksin, N.A.Sovorova and A.M.Okolowich in ZA 1956, Vol 22, Nr 1, in which potentiometrical titration by means of a silver nitrate solution with the aid of a silver electrode is recommended. The author says that this method was already tested thoroughly by the Leningrad Mining Institute in 1936-37 which also published the results obtained. On this occasion it was found that, without any doubt, for the determination of xantogenate concentrations in flotation pulp (which usually contains sulphur) not a silver electrode but a mercury electrode must be used, because in the presence of sulphur or sulphurous metal carbonates the electrode potential is decreased so that results obtained by analysis are too high. In the case of an abundance of sulphur or sodium carbonate in titration it is not possible at all to determine the potential impulse. Thus, the applicability of potentiometrical analysis by means of silver nitrate is only very limited.

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On the Determination of the Small quantity Content of 32-6-48/54
Xantogenate in Aqueous Solution by Means of the Method of Potentiometrical Titration.

ASSOCIATION Lenin,rad Mining Institute.
PRESENTED BY
SUBMITTED
AVAILABLE Library of Congress.
Card 2/2

OSOLSOBE, J., dr., inz.; HONDLA, F., inz.; KUCERA, F., inz.; PAVLICEK, Z., inz.; KUBINEC, R., inz.; CABELKA, J., akademik; SIMUDA, L. inz.; JUZA, J., dr., inz.; KRAL, V., inz.; POSPISIL, J., inz.; DOLEZAL, R., prof., dr., inz.; ZEMAN, Vl., inz.; LIMPOUCH, B. inz.; SVAB, V., dr., inz.; LASKA, L., inz.; JAHODAR, V., inz.; KOHN, F., inz.

Development of power installations over a long period of time; summary of reports made at the 7th Conference of Power engineers in Bratislava, September 6-8, 1960. Energetika Cz 11 no.3: Suppl: Energetika 11 no.3:1-23 '61.

1. Chlen korespondent Ceskoslovenske akademie ved (for Osolsobe).

OSOLSOBE, Jan, inž., doktor technických věd

"Planning the development of Czechoslovak power engineering"
by Florian Kucera. Reviewed by Jan Osolsobe. E1 tech obzor
52 no.4:216 Ap '63.

1. Člen korespondent Československé akademie věd.

OSOLSOBE, Jan

Meeting of the Executive Council of the World Power Conference
in Moscow. Vestnik CSAV 70 no.5:735-738 '61.

1. Cien korespondent Ceskoslovenske akademie ved.

OSOLSOEE, J.

Eighty years of Professor Vladimir List; a biographic sketch. p. 333.

(Elektrotechnicky Obzor. Vol. 46, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

OSOLSOBE, J.

Research in the power industry. p. 150

TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 4, 1955

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

S. L. J.

The tasks and coordination of research in the near industry.

I. 200, (Stroboelectrotechnika) Vol. 1, no. 1, 1951, issue, Czechoslovak

SO: Monthly Index of East European Accessions (EMIA) Vol. 1, No. 1

SS: DARR, T.

Jewish part of election results in Great Britain, p. 11.
(SP: RAVI FOR DEJINI ARIPADU. I. V. A. BUKAY, vol. 1, p. 11, 1951)

SS: Monthly List of East European Agents, (S. A. L., C, Vol. 1, p. 11, 1951,
Nov. 1951, 1951.

CSCLOPE, J.; PAVLOVICH, B.; MATIHA, J.

How research contributed to the power industry and what its further purpose is. p.187. ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavni sprava elektren) Praha. Vol. 1, no. 5, May 1955

SOURCE: East European Accessions List, (EAL), Library of Congress, Vol. 4, No. 12, December 1955

OSOLOSOBE, J

"Activities of the Power Commission of The Czechoslovak Academy of Sciences",
p. 301. (ELEKTROTECHNICKY OEBOR, Vol. 42, No. 6 June 1953, Praha, Czechoslovakia)

SO: Monthly List Of East European Accessions, LC.Vol. 3, No. 5, May 1954 Unclassified

D. V. 107-44-001-10 20

AUTHORS: Bunimovich, S; Kireyev, I; Tsenerko, W; Yaglanov, I

TITLE: A Club SW Transmitter (Klubnyy KV peredatchik)

PERIODICAL: Radio, 1959, Nr 9, pp 11 - 20 (USSR)

ABSTRACT: The transmitter was designed and built by the authors for use as the Staline Radio Club's transmitter. It transmits on the SW amateur bands, 80, 40, 20, 14 and 10 m, and can operate with telegraph, microphone and amplitude modulation, or with the microphone on a single side band (SSB), suppressing the carrier wave. The set consists of 3 basic units - final and penultimate transmitting stages, master oscillator and SSB generator - which can work independently or in conjunction with other apparatus. Band changing in the final stage is effected by replacing the coils. Band switching is avoided to reduce RF energy losses. A switch alters the value of the negative feedback to the control grid - for telegraph work 150v, for AM microphone work 130 v and for SSB microphone work 95 v. The triode penultimate stage has automatic bias and a switching system for the band change. The output of the transmitter is not less than 10 w. The master oscillator makes it possible to obtain an RF output voltage up to 50 v. Band change is effected by RF relays. The master generator

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A Club SW Transmitter

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stage works at a frequency in the 100 m band. Keying is carried out on a 'ricia keyer. A stabilizer is built in to stabilize the plate and screen voltage of the master generator and the screen voltage of the buffer stage. The RF voltage is fed from the master generator via a choke to the grid of the buffer tube. The 1st doubler is tuned to 90m, the 2nd to 14 m with a relay which, by switching in a condenser, retunes it to 40 m. The 3rd doubler is tuned to 14 m, retuned by a relay to 30 m. The final stage is a cathode repeater. The modulator consists of a 4-stage AF-amplifier with a modulation transformer. Automatic level limitation is provided to prevent non-linear distortions. In the SSB generator the AF signal, together with the voltage from the 1st carrier wave generator (465 kc), is fed to the 1st balanced modulator equipped with a single band crystal filter for isolating one sideband. One crystal passes the lower SB (463.5 kc), one the upper SB (466.5 kc) and the other the resonance frequency of 465 kc. The selected sideband passes through an IF amplifying stage to the 2-stage 2nd balanced modulator excited by the master oscillator, operating at 3.0-3.5 MC for 90 and 14 m bands and at 6.75-7.15 Mc for 20, 14 and 10 m bands. The final stage isolates the 4th harmonic in the 10 m band, works as

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A Club SW Transmitter

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a tripler in the 14 m band, as a doubler in the 20 and 30 m band, and as an amplifier in the 80 m band. The power pack has 5 separate rectifiers. Relays are used extensively to protect the power pack and transmitter from voltage overloading. The transmitter is arranged in 3 separate units sliding in and out of a rack assembly. 1. final and penultimate stages, modulating transformer. 2. 750v and 200v rectifiers, bias and relay rectifiers. 3. 1,500v HI rectifier and filament transformer for gas-discharge rectifiers. Construction and tuning details are given. There are 5 circuit diagrams, 4 tables, 1 figure and 1 schematic diagram.

1. Radio transmitters--Design 2. Radio transmitters--Performance

Card 3/3

SECRET

1. The first of the two main parts of the document is a list of names of individuals who are believed to be active in the field of [redacted] in the [redacted] area.

2. The second part of the document is a list of names of individuals who are believed to be active in the field of [redacted] in the [redacted] area.

KONDRAT'YEV, Afenssiy Borisovich, kand.tekhn.nauk; YERSHOVA, Galina Nikolayevna, inzh.; MEN'SHIKOV, Ivan Alekseyevich, prof., doktor tekhn.nauk; MOSKOVSKIY, Mikhail Ivanovich, kand.tekhn.nauk; SOBOLEV, David Iosifovich, kand.tekhn.nauk; SMIL'GEVICH, Petr Kasimirovich, inzh.; SHIROKOV, Boris Ivanovich, kand.sel'skoxoz.nauk; Prinsipali uchastiye: TREBIN, Boris Nikolayevich, inzh.; OSOBOV, Vedin Izrailevich, inzh. BRIK, P.A., prepodavatel', retsenzent; IVANOV, V.A., prepodavatel', retsenzent; KOGANOV, A., prepodavatel', retsenzent; KONONOV, B.V., prepodavatel', retsenzent; MARKOV, G.Ya., prepodavatel', retsenzent; OSIPOV, G.P., prepodavatel', retsenzent; RYABOV, P.I., prepodavatel', retsenzent; SOLOV'YEV, K.Ya., prepodavatel', retsenzent; SOROKIN, V.Ya., prepodavatel', retsenzent; BANNIKOV, P., red.; VORONKOVA, Ye., tekhn.red.

[Manual for collective farm machinery operators] Spravochnik mekhanizatora sel'skogo khoziaistva. Penza. Penzenskoe knizhnoe izd-vo, 1959. 610 p. (MIRA 14:2)

1. Saratovskiy institut mekhanizatsii sel'skogo khozyaystva imeni M.I.Kalinina (for Brik, Ivanov, Koganov, Kononov, Markov, Osipov, Ryabov, Solov'yev, Sorokin).
(Agricultural machinery) (Farm mechanization)

OSOXIN, V.P., insh.

Analyzing milling fan performance. Teploenergetika 7 no.6:
47-49 Je '60. (MIRA 13:8)

1. Tsentral'nyy kotloturbinnyy institut.
(Fans, Electric)

KUIRYAVTSKY, Ye.V., doktor tekhn.nauk, red.; IGNOV, V.P., kand.fiz.-mat.
nauk, red.; OSKINA, V.I., red.; RYBKINA, V.P., tekhn.red.

[Problems of high-speed flights] Problemy poleta s bol'shimi
skorostiami; sbornik statei. Moskva, Izd-vo inostr.lit-ry,
1960. 173 p.

(Aerodynamics, Supersonic)

(MIRA 14:3)

OSOISOBE, Jan, inž., doktor technických ved

Commemorating the 50th anniversary of the foundation of the periodical "Elektrotechniky obzor." El tech obzor 51 no.1: 3-5 Ja '62.

1. Clen-korespondent Ceskoslovenske akademie ved

KHASILEV, V.L., dotsent, kandidat tekhnicheskikh nauk; OSOPRIKO, V.N., inzhener.

Selection of steel construction units from the point of view of economy.
Vest.mash. 33 no.11:33-40 B '53.

(MLRA 6:12)
(Steel, Structural)

OSOPRILKO, N. N.

OSOPRILKO, N. N. Electric Generators Used for Braking in Motor Tests (Ekletromashina kak Tormoz dlya Ispytaniya Dvigatelye), pp-14-15

The use of induction or d-c generators for regenerative braking of motors tested in laboratories is discussed. (Drawings and formula).

SO; PROMYSHLENNAYA ENERGETIKA,[?] No. 11, Nov. 1952, Moscow (1613006)

OSOPRILKO, N.N.

GOL'DFEL'D, S.M.; OSOPRILKO, N.N.

Magnetic oil filters of internal combustion engines. Avt.trakt.
prom. no.12:12-13 D '54. (MLRA 8:2)

1. Odesskiy elektrotekhnicheskiy institut svyazi.
(Gas and oil engines)

OSORGIN, A., kandidat ekonomicheskikh nauk.

Define the boundaries of economic administrative regions. Vop.ekon.
no.4:148-149 Ap '57. (MLRA 10:5)

1. Institut ekonomiki AN Kazakhskoy SSR.
(Regional planning)

OSORGIN, A. (Alma-Ata)

Capital investment in transportation must be increased. Vop.
ekon. no.1:140-142 Ja '59. (MIRA 12:1)
(Kazakhstan--Transportation)

OSORGIN, A.V.; LAVROVA, I.V.; PSHENITSYNA, I.F.; VYSKUBOVA, M.M.; SEMENOV,
M.N., red.; BOROKINA, Z.P., tech. red.

[Problems in the comprehensive development of transportation in the
virgin and fallow land region of northern Kazakhstan] Voprosy kom-
pleksnogo razvitiia transporta v raionakh osvoeniia tselinnykh i
zaleshnykh zemel' Severnogo Kazakhstana, Alma-Ata Izd-vo akad. nauk
Kazakhskoi SSR, 1957. 107 p. (Akademiia nauk Kazakhskoi SSR, Alma-
Ata Institut ekonomiki. Trudy, vol. 1). (MIRA 11:3)
(Kazakhstan--Transportation)

FREYKIN, Z.G. OSORGIN, A.V.

AUTHOR: Freykin, Z.G.

10-56-7-29/50

TITLE: A Meeting on the Study of Complex Regional Problems in Tashkent (Soveshchaniye po issledovaniyu rayonno-kompleksnykh problem v Tashkente)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 2, pp 157 - 159 (USSR)

ABSTRACT: A conference on the study of complex regional problems was convened by the Institute of Economics of the AS USSR in Tashkent from 8 to 12 October 1957. Representatives of SOPS, of the Institute of Economics and Geography of the USSR Academy of Sciences and of the academies of the various republics took part in this meeting. Kh. Abdullayev, President of the Uzbek AS opened the conference by giving a review of the activities of the Uzbek Academy of sciences over the past 7-8 years. Furthermore, the conference heard the following reports: K.N. Bezdrintsev (Institute of Economics of the AS UzSSR) on "Methods and Organization of the research of Complex Regional Economical Problems"; M.Ya. Senin (Institute of Economics of the AS USSR) on "The Problem of Labor Resources and Their Utilization in the research of Complex regional problems"; A.V. Osorgin (Institute

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A Meeting on the Study of Complex Regional Problems in Tashkent 10-58-7-29/29

of Economics of the AS of the Kasakh SSR) on "Principles in the Construction of a Unified Transportation System in Kazakhstan"; N.M. Kokosov (Ural Branch of the AS USSR) on the importance of the development and solution of inter-regional problems; V.S. Belousova (Eastern Siberian Branch of the AS USSR) on shortcomings in large construction projects which make it necessary to revise primary planning even after long research studies; Yu.O. Alferov (AS of the Uzbek SSR) on problems of complex development of the **Angren** and **Almalyk** mining areas; N.S. Yashvili (Institute of Economics of the AS of the Georgian SSR) on problems of developing the suburban national economy in connection with complex regional problems; O.Kh. Karchikyan (Institute of Economics of the AS of the Armyansk SSR) on the same subject; I.M. Semenov (Komi Branch of the AS USSR) on "Special Features in the Research of Complex Regional Problems in Sparsely Populated Regions of the North"; I.M. Naydich (AS of the Kirghiz SSR) on "The Complex of the **Bol'shoy Naryn**"; N.N. Nekrasov (SCPS of the AS USSR) on the change of several research methods in this field; G.I. Zayko (Gosplan Uzbek SSR) on the importance of the work carried out by the Uzbek Academy of Sciences; G.N.

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10-58-2-29/29

A Meeting on the Study of Complex Regional Problems in Tashkent

Cherdantsev (AS of the Uzbek SSR) on the great importance of raising the scientific level and the applied methods in the research carried out on complex regional problems.

1. Economics—Conference—USSR

Card 3/3

CHOKIN, Sh.Ch., otv. red.; AKHREDSAFIN, U.N., red.; MAYZEL', S.Ya., red.; OSORGIN, A.V., red.; ZHUKOVA, E.D., red.; SEMENOV, M.N., red.; ALFYRGOVA, P.F., tekhn. red.

[Productive forces of central kazakhstan]Proizvoditel'nye sily Tsentral'nogo Kazakhstana; trudy sessii. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR. Vol.5.[Power engineering, water supply engineering, construction, and transportation]Energetika i vodnoe khoziaistvo, stroitel'stvo i transport. 1959. 257 p.

(MIRA 15:12)

1. Ob'yedinennaya nauchnaya sessiya po problemam razvitiya proizvoditel'nykh sil Tsentral'nogo Kazakhstana, Karaganda, 1958.
2. Institut energetiki Akademii nauk Kazakhskoy SSR (for Mayzel').
3. Akademiya nauk Kazakhskoy SSR (for Chokin).
4. Institut geologicheskikh nauk Akademii nauk Kazakhskoy SSR (for Akhredsaftin).
5. Institut ekonomiki Akademii nauk Kazakhskoy SSR (for Osorgin).

(Kazakhstan--Water supply engineering)

(Kazakhstan--Construction industry)

(Kazakhstan--Transportation)

KUZNETSOVA, Zoya Vladimirovna; KURITSYN, Igor' Ivanovich; OSORGIN,
A.V., retsenzent; NAZARENKO, I.M., retsenzent; GLADYSHEVA,
Ye.N., otv. red.; POPOVA, G.Z., otv. red.; KOROTKOVA, Ye.A.,
red.; ALFEROVA, P.F., tekhn. red.

[Semipalatinsk Province; economic and geographical features]
Semipalatinskaya oblast'; ekonomiko-geograficheskaya kharakte-
ristika. Alma-Ata, Izd-vo AN KazSSR, 1961. 213 p.

(MIRA 15:7)

(Semipalatinsk Province—Economic geography)

OSORGIN, A. V.

Parokhodstvo na ozere Balkhash. Navigation on the lake Balkhash. (Vodnyi transport, 1934, no. 11, p. 12).
DLC: HE561.R2

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

OTCHIN, A.V.

Osorgin, A.V. "The problem for the complex development of the transport network of Western Kazakhstan" (draft of a report presented at the 10th session of the Academy of Sciences of the Kazakh SSR, 1971, Kazakh. SSR, 1972, no. 3, pp. 111-14)

S : 1-341, 1 April 73, (Data iz zhurnalov i sbornikov, no. 11, 1973)

REFINT/Chemical Technology: Medical Products and Their
Application: Food Industry.

1-26

Iss Jour: Ref Zhur-Kh'm., 1959, 63, 8.

Author : Rabega, S.; Oserhan, T.

List : C.L. Turkish University.

Title : Micromethod of Determination of Reducing Agents in Grape
and Orange Juices with Sodium Cuprisulfosalicylate.

Orig. pub: An. Univ. J.I. Irbil, Ser. stint. natur., 1958, 1, 17
61-64.

Abstract: A method of determination of reducing agents in orange
and grape juices is described. The new method is more
sensitive than Bertrand's method and, as far as the
sensitivity is concerned, it approaches Hage-dorn-
Jensen's method, but it is more convenient than the

Card : 1/2

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OSORHAN, T.; RABEGA, C.

Microdetermination of directly-reducing substances in fruit juices by means of cuprisulfosalicylate of sodium. p. 61

ANALELE. SERIA STINTELOR NATURIIL. Bucuresti, Rumania.
Vol. 7, no. 17, 1958

Monthly list of European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

ROMANIA/Analytical Chemistry - Analysis of Organic Substances E-3

Abs Jour : Ref Zhur - Khimiya, No 4, 1958, No 11071

Author : Constantin Rabega, Romeo Stanescu, Maria Rabega, Tudor
Qsorhan

Inst : "C.I. Parhon" University

Title : Indirect Microdetermination of Some Monoses and Reducing
Disaccharides (Bioses) with Sodium Sulfosalicylatecuprate.

Orig Pub : An. Univ. "C.I. Parhon". Ser. stiint. natur., 1956, No 12,
65-75

Abstract : The method described earlier (see the preceding abstract)
was applied to the determination of mannose, galactose, mal-
tose and lactose. In all the cases a linear dependence be-
tween the number of mlit of 0.1 n. $\text{Na}_2\text{S}_2\text{O}_3$ expended for the
titration of Cu^{2+} and the number of mg of the analysed sub-
stance was established. Mannose and galactose possess the
reduction capacity more or less in the same degree of glucose.
The reduction capacity of maltose and lactose is a half of
that of glucose.

Card : 1/1

LUR'YE, A.I.; OSORIN, V.I.

Applying Chebyshev extreme polynomials for the synthesis of
the mechanical arrangement of vibration pickups operating under
conditions of slowly varying overloads. Trudy LPI no.192:109-127
'58.

(MIRA 11:6)

(Chebyshev polynomials) (Vibration--Measurement)

S/123/61/000/004/021/027
A004/A104

AUTHOR: Osorin, V. I.

TITLE: Oscillations of the linear system with lumped parameters in the presence of random factors

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 4, 1961, 3, abstract 4D35. ("Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t", 1959, no. 8, 82-86)

TEXT: The author analyzes equations of the linear system with constant lumped parameters under the condition that some parameters and the initial conditions are stray parameters. He carries out a statistical investigation of the free and forced oscillations of the system. In the second case the random disturbing force is assumed to be given by a canonical expansion. The investigation is carried out under the assumption that the system is asymptotically stable. As a result of the analysis, formulae are obtained to calculate the probability density of the motion phase for free and forced oscillations. There are 3 references. ↓
G. Fliddler

[Abstractor's note: Complete translation]

Card 1/1

30982
S/124/61/000/009/002/058
D234/D303

24.4100

AUTHOR: Osorin, V.I.

TITLE: Oscillations of a linear vibrator as a random process

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 9, 1961, 15, abstract 9 A114 (Tr. Leningr. politekhn. in-ta, 1960, 171-198)

TEXT: Methods of statistical investigation of oscillations of the simplest linear systems in the presence of random factors of various kinds are exposed. Free oscillations of a system with one degree of freedom, with random values of parameters at random initial conditions $A\ddot{X} + B\dot{X} + CX = 0$ are investigated. The probability density of the system of random quantities A, B, k, X_0, \dot{X}_0 will be $p_0(x_0, \dot{x}_0, a, b, k)$ where X_0 and \dot{X}_0 are random initial conditions for the time instant t_0 , $K = \sqrt{(C/A - B^2/4A^2)}$ is the random frequency of

X

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Oscillations of a linear vibrator...

S/124/61/000/009/002/058
D234/D303

free oscillations of the system. An example of the calculation of the expected number of excesses with respect to a given value for the deflection of a vibrator due to random collisions is given. Forced oscillations of the simplest vibrator for three cases of excitation are considered. [Abstracter's note: Complete translation]

Card 2/2

X

OSORIN, V. I.

Calculating the probability spectrum of natural frequencies of a
linear elastic system. Trudy LPI no.210:156-170 '60.

(MIRA 13:11)

(Vibration)

KOLOVSKY, M.Z.: OSORIN, V.I.: PERVCEVANSKY, A.A.(Leningrad)

"Probability methods in the theory of vibrations".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

OSORIN, V. I.

Vibrations of a linear vibrator as a random process. Trudy LPI
no.210:171-198 '60. (MIRA 13:11)

(Vibrators)

OSORIN, V. I., LUR'YE, A. I.

"Application of Extremal Chebyshev Polynomial to Synthesize the Mechanical
Layout of a Vibrot transmitter Designed for Slowly Varying Excitation."

(Dynamics and Strength of Machines; Collection of Articles) Moscow, Mashgiz,
1958. (Series: Izv. Leningrad Polytech Inst. Trudy, No. 192) 234 p.

OSORIN, Yu.N.

Automatic quality control of fabric singeing. Tekst.prom. 18
no.10:56-57 0 '58. (MIRA 11:11)

1. Ivanovskiy nauchno-issledovatel'skiy tekstil'nyy institut.
(Textile finishing) (Automatic control)

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CA OSORINA, Ye P.

Effect of fluorine on solubility of tooth enamel in acids
 Ye. P. Osorina. *Stomatologiya* 1948, No. 2, 1-20.
 Treatment of the tooth enamel 5 hrs. with 0.7% NaF
 lowers its sol. in 0.1 N AcOH by 5 times, in 0.1 N lactic
 acid by 4 times, in 0.1 N citric acid by 2 times, in 0.1 N
 HCl by 20%. A 5 hr. treatment is equivalent to a 1 day treat-
 ment. Generally, carious teeth have a higher sol. of
 enamel than do normal teeth. (Author gives inter-
 mediate values.) G. M. Kozlovskii

*Chair of Therapeutical Stomatal Dening and
 Stal Stomatal. Inst.*

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OSORINA, Ye. P.: "A study of the effect of sodium fluoride on tooth tissue". Leningrad, 1955. Leningrad State Order of Lenin Inst of Advance Training of Physicians imeni S. M. Kirov. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

OSOSKOV, G.A.

A limit theorem for the sequences of homogeneous events
[with summary in German]. Teor. veroiat. i ee prim. 1 no.2:
274-282 '56. (MLRA 10:2)

(Probabilities)

OSOSKOV, V. A., Cand Phys-Math Sci -- (diss) "Limit theorems for flows of uniform random events." Moscow, 1957, 6 pp. (Moscow State University; in N. V. Lomonosov. Mechanics-Mathematics faculty) (RL, 67-47, 1-4)

OSOSKOV, G. A.

SOV/52-2-4-7/7

A Summary of Papers Presented at the Sessions of the Scientific Research Seminar on the Theory of Probabilities. Moscow, Feb-May 1957. Teoriya Veroyatnostey i yeye Primeneniya, 1957, v. 2, no. 4, pp. 478-88

Feller processes and non-degenerative parabolic equations. Contents are to be published in this journal. Ososkov, G.A., A limit theorem for flows with a restricted dependence. The contents were published in Vol.1, Nr.2 of this journal. Shirayev, A.N., A central limit theorem for multiply non-homogeneous Markov chains. Two limit theorems are proved for the normalised sum of stochastic quantities connected in a multiply non-homogeneous chain of order λ . Fortus, M., A uniform limit theorem for distributions approaching a stable law with an index less than one. The sums of independent stochastic quantities are distributed according to the law $F(x)$. The function $F(x)$ belongs to the domain of normal attraction (prityazheniye) of a stable law $F_{\alpha, \beta}(x)$ (α and β are parameters of the distribution) and $\alpha < 1$.

$$F_n(x) = P \left\{ \frac{S_n}{n^{1/\alpha}} < x \right\}.$$

Card 9/21

//

OSOSKOV, G.A. (Penza)

Elements of mathematical analysis must be and can be introduced into
the school mathematics course. Mat. v shkole no.5:45-47 S-0 '60.
(MIRA 13:10)

(Mathematical analysis)

OSOSKOV, G.A. (Lipetsk)

Efficient planning of mathematics lessons. Mat.v shkole no.5:
23-26 S-O '62. (MIRA 15:12)
(Mathematics--Study and teaching)

OSOSKOV, G.A.

Planning of mathematics lessons. Uch.zap.Penz.gos.ped.inst. no.7:
38-43 '62. (MIRA 16:7)

(Mathematics--Study and teaching)

OSOSKOV, G.A. (Lipetsk)

For a rational preparation of lessons of mathematics. Mat i
fiz Bulg 6 no.1:28-34 Ja-P'63.

ZABIYAKIN, G.I.; OSGSKOV, G.A.

Characteristics of multichannel recording devices with
intermediate memory in pulsewise operation. Prib. i tekhn.
eksp. 8 no.6:73-77 N-D '63. (MIRA 17:6)

1. Ob'yedinennyy institut yadernykh issledovaniy.

OSOSKOV, V. —

Let us contribute to our country's wealth. Rabotnitsa 40 no.7:14,
Jl '62. (MIRA 16:2)
(Efficiency, Industrial) (Materials)

MOROZOV, Pavel Aleksandrovich; OSOSKOV, V., inzh., red.; TESLENKO, M.,
red.; SHLYK, M., tekhn.red.

[The workman, the maintenance man and the foreman are the best
production controllers] Rabochii, maladchik, master - luchshie
kontrolery. Pod red. V.Ososkova. Moskva, Mosk.rabochii, 1959.
78 p. (MIRA 13:2)

(Quality control)

MOROZOV, Pavel Aleksandrovich; OSOSKOV, Valentin Ivanovich;
MESHKOVSKAYA, M., red.; SHLYK, M., tekhn. red.

[Foreman in an industrial plant] Master na predpriatii.
Moskva, Mosk. rabochii, 1962. 141 p. (MIRA 15:11)
(Factory management)

TYL'IN, N.A., kand. tekhn. nauk; OSOSOK, B.B., inzh.

Redesign of roll straightening machines. Stal' 19 no.1:73-
74 Ja '59. (MIRA 12:1)

1. Zavod im. Dzerzhinskogo.
(Rolling mills--Equipment and supplies)

AUTHORS: Tylkin, M.A., Candidate of Technical Sciences and
Ososok, B.B., Engineer SOV/133-59-1-16/23

TITLE: Modernisation of a Roller Straightener (Rekonstruktsiya
rolikopravil'noy mashiny)

PERIODICAL: Stal', 1959, Nr 1, pp 73 - 74 (USSR)

ABSTRACT: A modernisation of a roller straightener UZTM used for
cold-straightening of rails R-38, R-43 and R-50 and beams
is described, and illustrated. Main points: introduction
of water cooling of the backing roll for rollers in order
to prolong the service life of its bronze bearing (Figures 1
and 2), re-design of passes (Figure 3) which distributed
acting stresses over a larger backing surface. The latter
was obtained by re-designing bandages (Figures 4 and 5)
so that the diameter of their working surface was increased
by 20 mm. In addition the durability of bandages was
increased by an appropriate heat treatment.
There are 5 figures.

ASSOCIATION: Zavod im. Dzerzhinskogo (imeni Dzerzhinskiy Works)

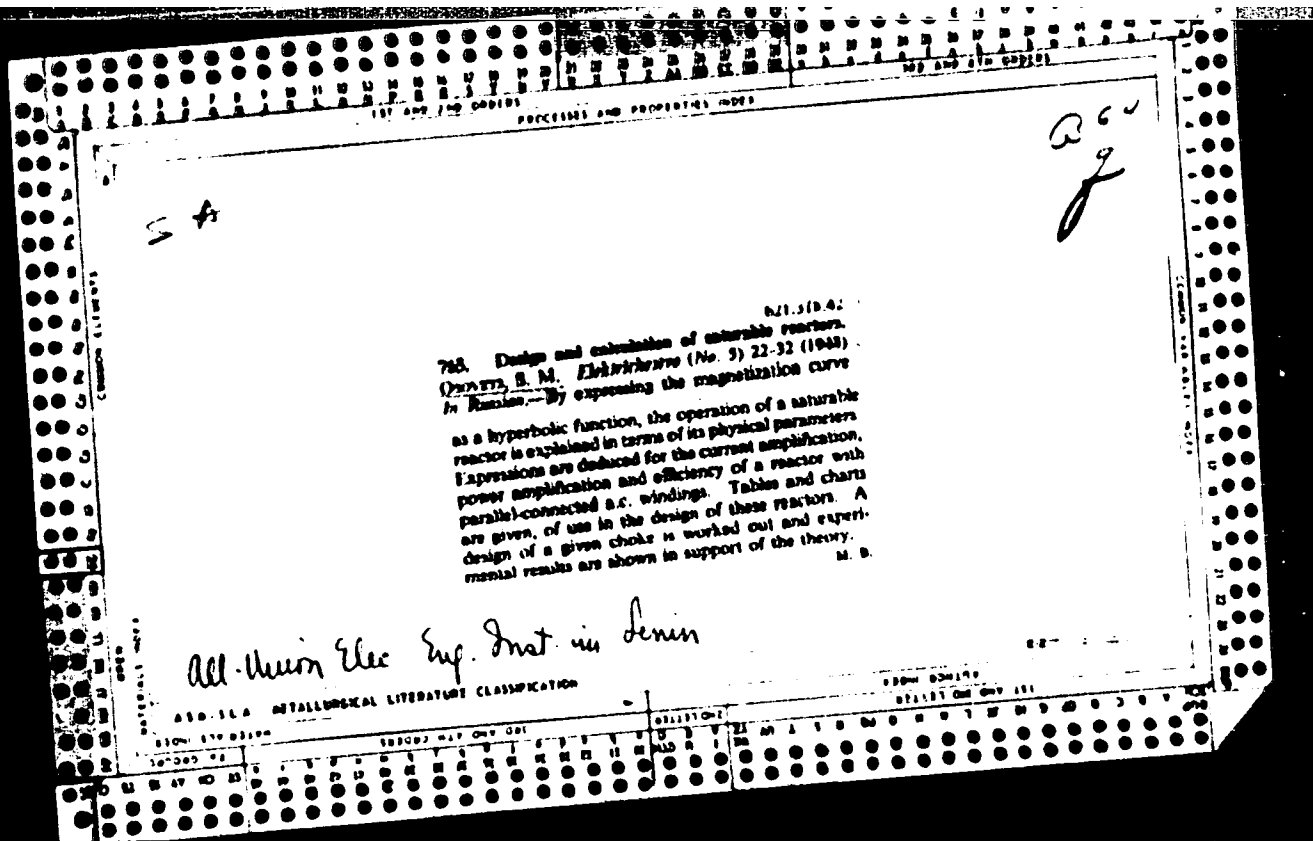
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1. The purpose of the present experiments is to determine the power coefficient in testing the switching capability of commutating apparatus. Elektricheskoye no. 12/62-70, p. 164.

1. "Analizy i obzhiheniya institutov" (1962), p. 164.

OSOVTIS, I.V., inzh.; KALNIN, O.Zh., inzh.

Using gas in road repairing. Avt.dor. 27 no.1:18-19 Ja '64.
(MIRA 17:4)



Osovets, S. M.

C-5

Category : USSR/Nuclear Physics - Nuclear Reactions

Abn Jour : Ref Zhur - Fizika, No 3, 1957, No 6074

Author : Leontovich, M.A., Osovets, S.M.
Title : On the Mechanism of ~~Compression~~ Current in a Fast and Powerful Gas Discharge.

Orig Pub : Atom. energiya, 1956, No 3, 81-83

Abstract : A study is made of the compression of a column of gas, carrying a current that increases rapidly with time. It is indicated that the fundamental role is played in this case by the magnetic forces that compress the gas (mutual attraction of parallel currents), charge distribution, and the inertia of the gas. The time variation of the radius of the gas column a is determined from the equation

$$\frac{1}{a} \frac{da}{dt} = -\frac{1}{3} \frac{dI}{dt} + \dots$$

where m is the mass of the gas per unit length of column, p the average gas pressure, and I the current. The coefficient $1/3$ must be introduced, because the mass of the gas is not concentrated in a circle of radius a , but is distributed over

Card : 1/2

USSR/Nuclear Physics - Nuclear Reactions.

C-5

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8838

Author : Osovets, S.M.m Podgorny, I.M.

Inst :

Title : High Power Pulse Discharges in Gases. (Session of the
Division of Physical-Mathematical Sciences.)

Orig Pub : Vestn. AN SSSR, 1956, No 8, 106-108

Abstract : The article contains a brief summary of a series of papers, read at the session of the physical-mathematical science division of the Academy of Sciences, USSR, on 12 June 1956, devoted to the results of the investigation of high-power pulsed discharges in gases. The works were carried out in connection with a search for a means of producing controllable thermonuclear reactions (see Referat Zhur Fizika, 1956, 6072 -- 6077).

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U.S.S.R. (USSR) G. S. GUMENIN, G. S. PETROV, G. S. PETROV, G. S. PETROV

"INVESTIGATION OF THE ...
by G. S. GUMENIN, G. S. PETROV, G. S. PETROV and G. S. PETROV.
Report presented at and ... Conference, ... (Sept. 1958).

~~OSOYETS, S. M.,~~ SACDEYEV, R. Z., TRUBNIKOV, B. A., SHAFRANOV, V. D., VOLKOV, T. F.,
RUDAKOV, L. I.

"Interaction Between Alternating Electromagnetic Fields and High-Temperature Plasma."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy,
Geneva, 1 - 13 Sep 58.

(SECRET) (S.M)

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PHASE I BOOK EXPLOITATION

SOV/1244

Akademiya nauk SSR. Institut atomnoy energii

Fizika plazmy i problema upravlyayemykh termoyadernykh reaktsiy, t. IV. (Plasma Physics and the Problem of Controlled Thermonuclear Reactions, v. 4) [Moscow] Izd-vo AN SSSR, 1958. 439 p. 3,000 copies printed.

Resp. Ed.: Leontovich, M.A., Academician.

PURPOSE: This collection contains previously unpublished work of members of the Institut atomnoy energii (Institute of Atomic Energy) of the Academy of Sciences of the USSR. It is intended for scientist interested in this field.

COVERAGE: This book is the last of four volumes of previously unpublished work of members of the Institute of Atomic Energy during the period of 1951-58. The exploitation cards on the other volumes in this series have been released under the numbers 1241, 1242, and 1243.

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Plasma Physics and the Problem (Cont.)

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List of Previously Published Reports on Plasma Physics and
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Sciences of the USSR

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AVAILABLE: Library of Congress (QC794.A38)

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(Secrets, 5.11)

AUTHORS: Borzunov, N. A., Orlinskiy, D. V., Osovets, S. M. 89-2-6/35

TITLE: Investigation of an Intense Pulsed Gas Discharge by Means of a High-Speed Photography (Issledovaniye moshchnogo impul'snogo razryada v gazakh s pomoshch'yu skorostnoy fotos"yemki)

PERIODICAL: Atomnaya Energiya, 1958, Nr 2, pp. 149-153 (USSR).

ABSTRACT: Discharges are produced in deuterium, argon, krypton and xenon with the help of a current exceeding 10^5 A at a gas pressure of 0.01 to 1.0 mm of mercury. A glass tube with a diameter of 18.5 cm served as discharge tube, the electrodes being at a distance of 97 cm. A condenser battery with a capacity of 35 F served as a current source, which was charged up to 40 kv. The course taken by the gas discharge is recorded photographically by means of a high-speed camera (10^6 exposures per second). The pictures obtained are shown for all 5 gases. On the basis of these pictures the course of the gas discharge in its initial state is compared in a qualitative way for the different gases. The results of this comparison show a good accord with the theoretical predictions,

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Investigation of an Intense Pulsed Gas Discharge by Means of a
High-Speed Photography

89-2-6/35

which can be made with respect to the connection in area of the plasma
from the "inertia-theory" by Leontovich (reference 5). There are 9 figures,
and 5 Slavic references.

SUBMITTED: September 11, 1957.

AVAILABLE: Library of Congress

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1. Gas discharges-Photographic analysis
2. Gas discharges-
Test results
3. High speed photography-Applications

OSOVETS, S. M.

"Containment of a Plasma by Traveling Magnetic Field." (Work carried out in 1957);
pp. 3-15.

"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.

ANDRIANOV, A. M., BAZELEVSKAYA, O. A., LUK'YANOV, G. Yu., OSOVETS, S. M., PETROV, Yu. F.,
PODGORNY, I. M. and YAVLINSKIY, N. A.

"Investigation of the Heating of Hydrogen Plasma in Small Toroidal Systems."
(Work carried out in 1951); pp. 42-65.

The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. 1.
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work by V. I. Kogan.

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OSOVETS S M

ANDRIANOV, A. M. and OSOVETS, S. M.

"Theory and Experiments on the Ignition of an Electrodeless Discharge in a Magnetic Field" (work carried out in 1951); pp. 95-109.

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

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OSOVETS, S. M.

"Theory of Rapid Processes." (Work carried out in 1957): pp 105-111.

"The Physics of Plasmas: Problems of Controlled Thermonuclear Reactions." Vol. III.
1959, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

NASEDKIN, Yu. F and OSOVETS, S. M.

X "Investigation of a Powerful Ring Gas Discharge in the Presence of an Equilibrium Orbit" (Work carried out in 1956); pp. 182-195.

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

Available in Library.

OSOVETS, S. M. and SCHEDRIN, N. I.

"Plasma Turbulence in the Presence of Active Resistance." (Work carried out in 1957); pp. 196-213.

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

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OSOVETS, S. M.

"Mechanism of the Observed Neutron Emission." (Work - 1954); pp. 165-167.

"A Plasma Discharge in an Electro-Magnetic Field." (Work - 1953); pp. 238-241.

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

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OSOVETS, S. M., PETROV, Yu. F. and SCHEDRIN, N. I.

"Investigation of a Gas Discharge in a Uni-Connected Region." (Work - 1955),
pp. 242-263.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. 11.
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

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10(4), 21(7)
 AUTHOR: **Bernunov, B. A., Orlinshkiy, D. Y., Gerasim, S. M.**

TITLE: **Investigation of a Strong Pulse Discharge in Conical Chambers (Issledeniya obozhanogo impul'snogo razryada v konicheskikh kamnakh)**

PERIODICAL: **Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1973, Vol 36, No 5, pp 717-726 (USSR)**

ABSTRACT: **The present paper contributes towards solving the hitherto unsolved problem of the theoretical description of the resonance oscillations of plasma envelopes at high current pulse discharges in conical chambers. In this paper the behavior of a gas plasma of a conical shape (in a conical chamber) through which a rapidly increasing current flows, the magnetic field of which decreases to contract the plasma in the direction of the chamber's axis, is, at first, theoretically investigated. The main part of the paper deals with results obtained by experimental investigations in a single and in a double cone vessel. Investigation results are given by diagrams and by a number of photographs. Thus, figure 1 shows series of photographs of a discharge in a conical chamber filled with deuterium taken at intervals of 0.1-0.5 sec. The discharge**

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Investigation of a Strong Pulse Discharge in Conical Chambers
 SOV/56-36-5-10/73

source was a condenser pile with a capacity of 15 - 45 pF, primary voltage at the chambers: $U_0 = 25 - 40$ kv at a deuterium primary pressure of 0.02 to 1.0 torr. The "double cone" chamber (Fig 10) had its greatest radius (100 mm) in the middle and consisted essentially of a symmetric glass vessel sustained by a copper Foster (angle of inclination of the lateral walls: $\gamma = 7^\circ$). Figure 11 shows a photograph of a discharge in such a vessel filled with deuterium ($p_0 = 0.1$ torr) with the corresponding oscillogram, and figure 12 shows the same for an argon filling ($p_0 = 0.05$ torr). Data for deuterium filling: $C = 45$ pF, $U_0 = 35$ kv ($I_0 = 410$ mA), rate of the neutron release of the plasma showed that this emission is in no connection with respect to the time with the simplification of the current- and voltage diagrams and is not accompanied by X-ray radiation. Figure 16 shows oscillograms of the discharge current I_0 , of the voltage U between the electrodes and the neutron radiation in the case of a discharge in a double cone chamber (hydrogen filling, wall

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Investigation of a Strong Pulse Discharge in Conical Chambers

2.5 cm porcelain, 0.1 cm Cu, 0.3 cm Pt, 0.3 cm Al), no hard X-ray radiation could be observed. The oscillograms indicate a possibility of attaining stabilization of the plasma within a phase of the primary discharge form mentioned. There are 16 figures and 7 references, 5 of which are Soviet.

SUBMITTED: August 26, 1973

Card 3/3