

113, V.F.; Prinsipali uchastnye; D.L.N., G.N., kama. tekhn. nauk;
SHERSHNEVA, A.N., inzh.; STRASHKOVICH, K.I., inzh.
tekhn. nauk, prof., retsident

[Centrifugal compressor machines] TSentrobezhnye kompres-
sornye mashiny. 2. perer. izd. Moskva, Mashinostroyeniye,
1964. 334 p. (MIRA 18:3)

SHERSHNEVA, A.N.

Brown turf-podzolic soils as the stage of the development of soil
cover in the western province of mixed forests in the U.S.S.R.
Uch. zap. Ped. inst. Gerts. 244:97-115 '63. (MIRA 18:3)

AFONSKAYA, M.O.; SHERSHNEVA, A.N.

The all-Russian conference on students' field practice. Izv.
Vses. geog. ob-va 97 no.1:102-103 Ja-F '65. (MIRA 18:3)

ACC NR: AP6031395

SOURCE CODE: UR/0114/66/000/009/0002/0006

AUTHORS: Ris, V. F. (Doctor of technical sciences); Den, G. N. (Candidate of technical sciences); Shershneva, A. N. (Candidate of technical sciences); Tilevich, I. A. (Engineer)

ORG: none

TITLE: Some work of the Nevskiy Machine Building Works in studying the flow part of centrifugal compressor machines

SOURCE: Energomashinostroyeniye, no. 9, 1966, 2-6

TOPIC TAGS: centrifugal compressor, multistage compressor, exhaust diffuser, gas dynamics, compressor rotor

ABSTRACT: The results from studies of the flow parts of centrifugal compressor machines are given. The effect of intake chambers at various periods of time were studied. Tests of a final stage with a pump-type rotor with a short bladeless diffuser and a symmetric pear-shaped helix made in the presence of an intake chamber and with axial intake gave practically identical results (see Fig. 1). The effect of certain rotor parameters is studied on the basis of an earlier work of V. F. Ris (Tsentrobeznyye kompressornyye mashiny. Izd. Mashinostroyeniye, 1964). It is found that when the exit angle β_2 is increased from 15 to 90° the efficiency of the final

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UDC: 621.515.001.5

ACC NR: AP6031395

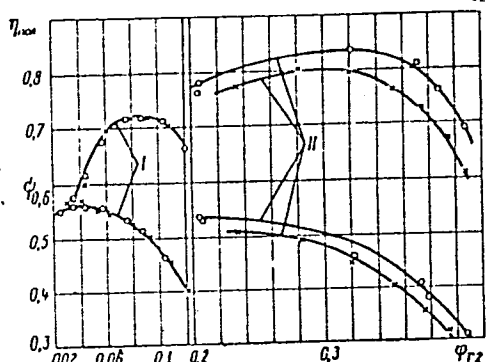


Fig. 1. Effect of intake chamber on characteristics of various stages:
I and II - $\beta_2 = 20$ and 45° :
O - stage with axial intake;
X - stage with intake chamber

stage increases at first, and then decreases. When the relative width of the rotor b_2/D_2 is reduced to 0.0131, the maximum values of efficiency are reduced by only 1% (see Fig. 2). The effect of bladed-diffuser geometry is also studied.

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ACC NR: A76031395

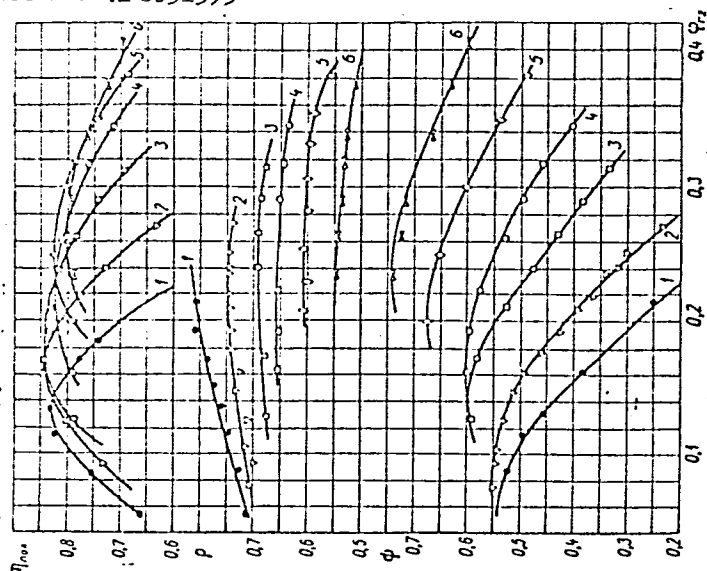


Fig. 2. Effect of exit angle β_2 for identical fixed elements of flow part of stage and $b_2/b_1 = 0.05$: 1 - 15° ; 2 - 22.5° ; 3 - 32° ; 4 - 45° ; 5 - 63° ; 6 - 90°

Orig. art. has: 11 graphs, 2 tables, and 4 formulas.

SUB CODE: 13/

SUBM DATE: none/

ORIG REF: 002/

OTH REF: 001

Card 3/3

GRUDEV, Dmitriy Ivanovich; BALAKIN, V.M., red.; SHESHNEVA, E.A.,
tekhn. red.

[Organization of breeding work in swine raising] Organizatsiia
plemennoi raboty v svinovodstve. Moskva, Izd-vo M-va sel'-
khoz.RSFSR, 1962. 137 p.
(MIRA 17:1)

L 24492-66 EWT(m)/EWP(j)/T IJI'c) WW/RM

ACC NR: AP6006977

(A)

SOURCE CODE: UR/0190/66/008/002/0240/0246

AUTHORS: Kavalyunas, R. I.; Shershneva, G. D.; Livshits, R. M.; Rogovin, Z. A.

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut)

TITLE: Synthesis, characterization, and certain properties of cellulose acetates and poly-2-methyl-5-vinylpyridine graft copolymers (193rd report in the series "Study of the structure and properties of cellulose and its derivatives")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 240-246

TOPIC TAGS: cellulose plastic, graft copolymer, redox reaction

ABSTRACT: Synthesis and properties of graft copolymers of secondary cellulose acetate (I) and cellulose triacetate (II) with poly-2-methyl-5-vinylpyridine (III) are described. The products are of interest because the presence of III (containing ionogenic groups) imparts to I and II such valuable properties as enhanced adhesion, ion exchangeability, and antistatic behavior. The graft copolymerization was performed according to the method described in an earlier paper by B. P. Morin, Yu. G. Kryazhev, and Z. A. Rogovin (Vysokomolek. soyed., 7, 1463, 1965). This method involves thermal decomposition of peroxides prepared by oxidation of

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UDC: 541.64+661.728.82+678.746

L 24492-66

ACC NR: AP6006977

the polymers $H_2O_2-Fe^{2+}$ (or Fe^{3+}) redox system. Content of III in the product is determined by the concentration of H_2O_2 and by the time of oxidation. Material containing up to 64% of grafted III was obtained. However, about 70% of cellulose acetates does not enter the reaction. Solubility of graft copolymer of I and III and solubilities of I, III, and the mechanical mixture of I and III, were investigated by turbidometric titration, and the results are summarized in Fig. 1.

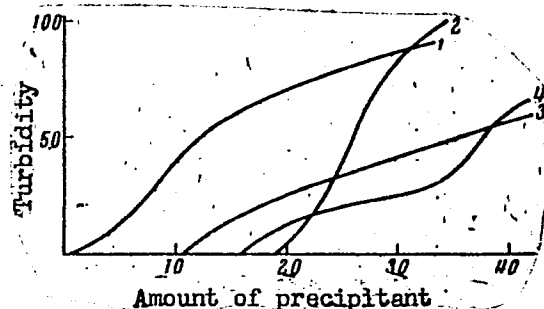


Fig. 1. Turbidity as a function of the amount of the precipitant. Precipitant - petroleum ether; concentration of the initial solution 0.005 g/ml; temperature 25C; feed-0.2 ml/l cycle; operating cycle 170 sec. Amount of initial solution 50 ml. 1 - graft copolymer; 2 - III; 3 - I; 4 - mechanical mixture of I and III.

Viscosity of the graft copolymer exceeds that of either homopolymer. Addition of the graft copolymer to the mechanical mixture of I and II with III results in

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L 24492-66
ACC NR: AP6006977

stable solutions. The authors express their gratitude to G. I. Volkova of MTIMMP laboratory for performing turbidimetric titrations. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 07/ SUBM DATE: 25Feb65/ ORIG REF: 006/ OTH REF: 003

Card 3/3 *LC*

CHUDICHINA, V. M., Cand Med Sci (diss) -- "Age changes in the structure of the submaxillary ganglion of the trigeminal nerve". Irkutsk, 1960. 20 pp (Irkutsk State Med Inst), 250 copies (KL, No 14, 1960, 139)

ZHELTAKOV, A.; SHERSHNEVA, V.

Technology of Vologda (region) butter. Molochnaya Prom. 14, No.5,
12-18 '53. (MLRA 6:4)
(CA 47 no.15:7688 '53)

SHERSHNEVA, V.

U S S R .

Quality of ripened cream butter as a function of pH of plasma. V. Shershneva. *Molochnaya Prom.* 10, No. 1, 24-5 (1955). To secure desirable flavor and aroma in butter churned from *Streptococcus diacetilactis*-ripened cream, it was found necessary to maintain pH 5.0-5.7 in the watery phase of butter. This was accomplished either by fermentation of cream or by addn. of starter, fortified with 5-30 ml. of 43% lactic acid/l. of starter. V. N. Krukovsky

SHERSHNEVA, Vera Il'ichna; ZHELTAKOV, A.I., kand.tekhn.nauk, spetsredaktor;
IVANOVA, N.M., red.; SOKOLOVA, I.A., tekhn.red.

[Production of sour cream butter] Proizvodstvo kisloslivochnogo
masla. Moskva, Pishchepromizdat, 1957. 61 p. (MIRA 11:5)
(Butter)

SHERSHNEVA, V. I., Cand of Sciences --- (diss) "Factors Influencing
the Formation and Preservation of the Aroma of Sour Cream Butter,"
Leningrad, 1959, 24 pp (Ministry of Higher and Secondary Specialist
Education RSFSR. Leningrad Technological Institute of the Refrigeration
Industry.) (HL, 6-60, 123)

SHKOSTOV, A. P.

How a modern war-ship is built Moskva, Voen. izd-vo, 1947. 54 p. (50-24779)

V767.S42

SEMERSHOV, A.P., professor.

Development of Russian shipbuilding during the period from 1850 to
1917. Sudostroenie 23 no.5:1-6 My '57. (MIRA 10:6)
(Leningrad--Shipbuilding)

L 29129-65. EWP(e)/EWT(m)/EWP(t)/EWP(b) Pq-4 IJP(c) JD/JG/WH

ACCESSION NR: AP5004251

8/0021/65/000/001/0070/0073

AUTHOR: Levina, M. E. (Levina, M. Ye); Shershov, B. S. (Shershev, B.S.)

TITLE: Transmission spectra of glasses of the system $\text{NaBeF}_3\text{-NaPO}_3$ and $\text{KBeF}_3\text{-KPO}_3$

SOURCE: AN UkrRSR. Dopovidi, no. 1, 1965, 70-73

TOPIC TAGS: fluoride, phosphate glass, beryllium glass, transmission coefficient, refractive index, ultraviolet spectrum

ABSTRACT: The authors have studied the transmission spectra and refractive indices of glasses with composition $\text{NaBeF}_3\text{-NaPO}_3$ and $\text{KBeF}_3\text{-KPO}_3$, in view of the isomorphism of fluorine compounds of beryllium with certain silicates. The beryllium-phosphor glasses were obtained by melting the components in a platinum crucible at temperatures 500 and 550° and soaking them at these temperatures for 20 minutes. The mass was then poured in a platinum mold and stamped in the form of rectangular plates measuring 8 x 4 x 3 mm. The transmission spectra were taken with an SF-4 spectrophotometer, and the refractive indices were measured with the HRF-22 refractometer. Both types of glass are opaque in ultraviolet up to 280--285 nm; the

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L 29129-65

ACCESSION NR: AP5004251

transmission then increases and becomes constant above 320--350 nm. Glasses of KBeF_3 - KPO_3 system, containing from 90 to 30 mol.% KBeF_3 , are transparent, do not absorb moisture from the air, and can be readily polished. The refractive index of the glass increases with increasing KPO_3 content from 1.3445 to 1.5015 as the molar percentage of KPO_3 increases from 10 to 90. The refractive index of the NaBeF_3 - NaPO_3 glass increases from 1.3285 to 1.4790 as the percentage of NaPO_3 increases from 10 to 90. This report was presented by E. O. Shylov. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Moskovskyy derzhavnyy universytet (Moscow State University)

SUBMITTED: 22Apr64

ENCL: 00

SUB CODE: OP

NR REF SOV: 001

OTHER: 004

Card 2/2

SHERSHOV, S. F.

Trukhanov, A. A., Shershov, S. F., Rozenman, A. S., Kheyster, I. M., Gluzunov, A. A., and Gludinskiy, P. G. Participated in a discussion on the "Waste of Metal and Decreasing the Power Losses in the Electrification System of the USSR" Moscow Power Engineering Institute imeni Molotov (MPEI), SO: Elektrichestvo, No. 5, 1947; (W-27801, 14 Sept. 1953)

SIENSKOV, S. F.

Leninsko-Stalinskaya Elektrifikatsiya SSSR (Lenin-Stalin Electrification of the USSR), Moskva, Gosenergoizdat, 1951, 271 pages. illus., ~~Maps~~. Maps, Tables.

N/5 663.2 .S5

PRUZNER, Saul L'vovich; KALININ, Georgiy Aleksseyevich; ~~SHERSHOV~~, Sergey
Fedorovich; PETROV, D.V., redaktor; FRIDKIN, A.M., tekhnicheskii
redaktor

[Economics and organization of power production] ~~E~~konomika i
organizatsiia energeticheskogo proizvodstva. Moskva, Gos. energ.
izd-vo, 1956. 368 p. (MIRA 9:3)
(Electric power)

~~SHERSHOV~~ Sergey Fedorovich; GORTINSKIY, S.M., redaktor; CHERNOV, V.S.,
tekhnicheskiiy redaktor.

[White coal] Belyi ugol'. Moskva, Gos.energ.izd-vo, 1957. 92 p.
(MIRA 10:11)
(Hydroelectric power stations)

3-2-11/32

AUTHOR: Andrianov, D.P., Doctor of Economics,
Shershov, S.F., Dotsent, Candidate of Technical Sciences

TITLE: In Search of Means to Improve the Economic Training of Future
Engineers (V poiskakh putey uluchsheniya ekonomicheskoy pod-
gotovki budushchikh inzhenerov)

PERIODICAL: Vestnik vysshey shkoly, Feb 1957, " 2, p 41-47 (USSR)

ABSTRACT: In general the article deals with deficiencies in the teaching
of economics at the Ural Polytechnical Institute and with the
measures adopted to eliminate them. This institute, the big-
gest in the Ural region, trains metallurgical engineers, buil-
ing engineers, chemists, mechanics, electrical engineers, radio-
technicians, economists and other specialists. The article
tells of the liaison between the Chair of Economics and Soviet
Industry, and on the inadequacy of the means of instruction.
In developing measures to improve the training in economics
the Administration of the Institute was guided by the direct-
ives of the 20th Congress of the Soviet Communist Party. Some
of the measures are: In all faculties, except two, the phy-
sico-technical and power engineering, instruction courses in
"Economics of the Individual Branches" and "Organization and
Planning of Production" were introduced. Attention was also

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3-2-11/32

In Search of Means to Improve the Economic Training of Future Engineers

Some teachers of the Chair of Economics and Production Organization, for instance Professor A.S. Osintsev, Dotsents V.I. Ganshtak, P.A. Zhukov, I.A. Rozenberg, A.M. Vershinin and others, regularly publish their works on these subjects. In Nov/Dec 1956, practical training for the students of the metallurgical, mechanical and radio-technical faculties in Sverdlovsk was provided for at the Uralsmashzavod, the Ural Turbo-Motor Works (Ural'skiy turbomotornyy zavod), the Verkh-Isetskiy [Sverdlovsk] Metallurgical Works (Verkh-Isetskiy metallurgicheskiy zavod), and in the Verkhnyaya Pyshma Works. This article is based on the results of a study by the Commission of the Chief Administration for Polytechnical and Machine Construction Educational Institutions of the Ural Polytechnical Institute, on the economic training of students.

ASSOCIATION: Ural Polytechnical Institute (Ural'skiy politekhnicheskiy institut)

AVAILABLE: Library of Congress

Card 3/3

VENIKOV, V.A.; VEYTS, V.I.; GLAZUNOV, A.A.; GRUDINSKIY, P.G.; PROBST, A.Ye.;
PETROV, G.N.; RUSSAKOVSKIY, Ye.A.; SHERSHOV, S.F.; TELESHEV, B.A.

In memory of Doctor of Economics and Technology Professor S.A.
Kukel'-Kraevskii; on the occasion of the 75th anniversary of his
birth. Elektrichestvo no.7:91-92 J1 '58. (MIRA 11:8)
(Kukel'-Kraevskii, Sergei Andreevich, 1883-1941)

SHERSHOV, Sergey Fedorovich, dotsent, kand.tekhn.nauk; PRUZNER, Saul
L'vovich, dotsent, kand.tekhn.nauk; ZAVADSKIY, Ivan Mikhaylovich,
dotsent; NELIDOV, I.Ye., red.; BORUNOV, N.I., tekhn.red.

[Economics and organization of power production] Ekonomika i
organizatsiya energeticheskogo proizvodstva. Pod obshchei red.
S.F.Shershova. Moskva, Gos.energ.izd-vo, 1959. 463 p.
(MIRA 13:2)

(Power engineering)

8(6)
AUTHOR: Shershov, S.F., Docent, Candidate of Technical Sciences
SOV/143-59-2-16/19

TITLE: The Production of Electric Power in the USSR During World War II (Elektroenergeticheskoye proizvodstvo v gody velikoy otechestvennoy voyny)

PERIODICAL: Izvestiya vysshikh uchebnikh zavedeniy - Energetika, 1959, Nr 2, pp 120-125 (USSR)

ABSTRACT: The author reviews the production of electric power in the USSR during WW II. When the German armies entered the territory of the USSR, numerous power plants were dismantled and their equipment was shipped in about 11,000 RR cars to the eastern regions, where the enlargement of existing power plants and the construction of new ones was speeded up simultaneously. The construction of power plant buildings was continued in winter, even during the most adverse weather conditions. During the War, mainly thermal power plants were built, since the time required for their construction is shorter than for hydroelectric

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SOV/143-59-2-16/19
The Production of Electric Power in the USSR During World War II

3 tables.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut
(Moscow Lenin Order Institute of Power Engineering)

PRESENTED: Kafedra ekonomiki promyshlennosti i organizatsii
predpriyatiy (~~Chair~~ of Industrial Economics
and Organization of Enterprises)

SUBMITTED: July 10, 1958

Card 3/3

SHERSHOV, S.F., kand.tekhn.nauk, dots.

Organizing general overhauling at the electric stations of the
Moscow Regional Power System Administration. Izv.vys.ucheb.zav.;
energ. 2 no.9:127-137 S '59. (MIRA 13:2)

1. Moskovskiy ordena Lenina energeticheskiy institut. Pred-
stavlena kafedroy ekonomiki promyshlennosti i organizatsii
predpriyatiy.

(Moscow Province--Power engineering)

SHERSHOV, Sergey Fedorovich; GORTINSKIY, S.M., red.; BORUNOV, N.I.,
tekhn.red.

[Soviet electric power production] Sovetskaya elektroenergetika.
Moskva, Gos.energ.izd-vo, 1960. 140 p.

(MIRA 14:4)

(Electric power)

KONSON, Aron Solomonovich; ~~SHERSHOV, S.F., dotsent, retsenzent;~~ KAZOVSKIY,
Ye.Ya., kand.tekhn.nauk, retsenzent; FAYERMAN, A.I., dotsent, red.;
SOBOLEVA, Ye.M., tekhn.red.

[Economics of the electric industry of the U.S.S.R.] ~~Ekonomika~~
elektrotekhnicheskoi promyshlennosti SSSR. Moskva, Gos.energ.izd-vo,
1960. 296 p. (MIRA 14:1)

1. Moskovskiy energeticheskii institut im. Molotova (for Shershov).
2. Zavod "Elektrosila" (for Kazovskiy).
(Electric industry)

SHERSHOV, S.F., kand.tekhn.nauk

Review of N.S.Afonin's book "Reliability of power supply
to industrial plants." Elek.sta.31 no.1:94-95 Ja '60.
(MIRA 13:5)

(Electric power distribution)

SHERSHOV, S.F., dotsent, kand.tekhn.nauk

Is the district electric power station an enterprise, or a section of the power system? Izv. vys. ucheb. zav.; energ. 3 no. 7:142-145 J1 '60. (MIRA 13:8)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedroy ekonomiki promyshlennosti i organizatsii predpriyatiy. (Electric power stations)

SHERSHOV, S. F. (Moskva)

From the plan of the State Commission on the Electrification
of Russia to the seven-year plan. Fiz. v shkole 20 no.2:5-14
Mr~Ap '60. (MIRA 14:5)
(Russia---Electrification)

SHERSHOV, S.F., kand.tekhn.nauk

Economic principles of power engineering in plans for the electrification of the U.S.S.R.; for the 40th anniversary of the plan of the State Commission for the Electrification of Russia. Izv. vys. ucheb. zav.; energ. 4 no.2:1-6 F '61. (MIRA 14:3)

1. Moskovskiy ordena Lenina energeticheskiy institut.
(Electrification)

SHERSHOV, S.F., kand.tekhn.nauk

Problems of economy in the future development of electric power.
Teploenergetika 8 no.1:3-7 Ja '61. (MIRA 14:4)

1. Moskovskiy energeticheskiy institut.
(Electric power)

SHERSHOV, S.F., kand.tekhn.nauk, dotsent

Time in which an item pays for itself and errors connected with its interpretation. Izv.vys.ucheb.zav.; energ. 5 no.4:118-125 Ap
'62. (MIRA 15:5)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena
kafedroy ekonomiki promyshlennosti i organizatsii predpriyatiya.
(Electric power plants--Accounting)

SERSOV, S.F. [Shershov, S.F.], C.Sc.

Problems of economy in the prospective development of power
engineering in the Soviet Union. Bul EGU no.4:21-22 '62.

1. Moskovsky energeticky ustav.

SHERSHOVA, F.M., inzhener; SARKISOV, G.M., inzhener; SEMENOV, N.I., inzhener.

Protecting railroads from washouts. Put' i put. khoz. no.7:22-23
Jl '57. (MLRA 10:8)

(Soviet Central Asia--Railroads)

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda, brigadir; LEBEDEVA, A.T., zven'ev. Geroy Sotsialisticheskogo Truda; KOLYADINA, A.A.; GUSEVA, N.F.; GUBANOVA, M.T.; GURENKO, A.G., svinar'; SVIRIDOV, I.G., svinar'; SHERSHOVA, M.V., zootekhnik; GORIN, D.P.; TAMBOVTSEV, P.K.; ULIN, I.; SAYTANIDI, L.D., tekhn. red.

[Leaders of socialist competition from Voronezh tell their stories]
Rasskazyvaiut peredoviki-voronezhtsy. Moskva, Izd-vo M-va sel'khoz.
RSFSR, 1960. 54 p. (MIRA 14:11)

1. Brigada kompleksnoy mekhanizatsii kolkhoza imeni Kirova Voronezhskoy oblasti (for Manukovskiy).
 2. Kolkhoz "Rossiya" Voronezhskoy oblasti (for Lebedeva, Shershova).
 3. Ryadovyye zvena vysokoy proizvoditel'nosti kolkhoza imeni Stalina Voronezhskoy oblasti (for Kolyadina, Guseva).
 4. Zven'yevaya kolkhoza imeni S.M. Kirova Voronezhskoy oblasti (for Gubanova).
 5. Sovkhoz "Vorob'yevskiy" Voronezhskoy oblasti (for Gurenko).
 6. Sovkhoz "Maslovskiy" Voronezhskoy oblasti (for Sviridov).
 7. Predsedatel' kolkhoza "Podgornoye" Voronezhskoy oblasti (for Gorin).
 8. Direktor sovkhoza "Vtoraya pyatiletka" Voronezhskoy oblasti (for Tambovtsev).
- (Voronezh Province—Stock and stockbreeding)
(Socialist competition)

BAGRINTSEVA, K.I., SHERSHUKOV, V.V.

Relationship between the gas potential of layers and the tectonic pattern of coal deposits. Razved. i okh. nedr 25 no.12:7-12 D '59. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gazovoy promyshlennosti (for Bagrintseva). 2. Institut gornogo dela AN SSSR (for Shershukov).
(Gas, Natural—Geology) (Coal geology)

BAGRINTSEVA, K.I.; SHERSHUKOV, V.V.

Gas concentration in adjoining rocks and their significance in the
natural elimination of gas from coal seams. Ugol. 35 no. 4:36-38
Ap '60. (MIRA 14:4)

(Mine gases) (Gases in rocks)

SHERSHUKOV, V.V.

Study of fractured rocks in the mines of the Noril'sk region.
Sov. geol. 6 no.10:122-126 0 '63. (MIRA 17:1)

1. Institut gornogo dela AN SSSR.

ETTINGER, I.L.; MATVIYENKO, N.G.; SHERSHUKOV, V.V.

Increase of the sorption activity of coals of the Noril'sk
deposit caused by an ore-bearing intrusion. Dokl.AN SSSR 148
no.4:925-928 F '63. (MIRA 16:4)

1. Institut gornogo dela im. A.A.Skochinskogo. Predstavleno
akademikom L.D.Shevyakovym.
(Noril'sk region—Coal geology) (Sorption)

TSIKLAURI, David Semenovich, dots., kand. tekhn. nauk; VOLOD'KO,
I.F., kand. tekhn. nauk, nauchm. red.; SHERSHUKOVA,
M.A., red.

[Water supply for fields and pastures] Polevoe i past-
bishchnoe vodosnabzhenie. Moskva, Stroiizdat, 1964. 162 p.
(MIRA 17:5)

ТРИН, А.И., David Semenovich, kots., kandi. tekhn. nauk; ВОЛД'ЯК,
И.П., kandi. tekhn. nauk, nauchn. red.; ШЕРГАНОВА, А.А.,
p.n.

[Water supply in fields and pastures] Polevoe i pastbishch-
noe vodopostavlenie. Moskva, Stroizdat, 1964. 162 p.
(MIRA 17:8)

17(4)

AUTHOR: Shershukova, O. P.

SOV/20-127-1-58/65

TITLE: Chromosome Number in *Ulmus pinnato-ramosa* Dieck. et Koehne
(Chislo khromosom u *Ulmus pinnato-ramosa* Dieck. et Koehne)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 210-212
(USSR)

ABSTRACT: A survey of the elm (*Ulmus*) species (Ref 1) is given initially. In spite of the great variety of species (50 are described), the family is cytologically insufficiently investigated. There are species with a haploid chromosome set of 14 chromosomes (*U. montana*, *U. americana*, *U. campestris*; Ref 3). Then, however, 15 chromosomes (with *U. pumila* and *U. fulva*) were found in a heterotypic division, and finally 28-30 chromosomes (*U. americana*, Ref 5) in a homeotypic division. These results are regarded as preliminary ones (Ref 4). It was found (Ref 6) that all the investigated species and subspecies (including the species mentioned in the title) have a haploid chromosome number of 14. In this connection the author assumes that the somatic chromosome number of the investigated species ($2n$) 28 is equal.

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Chromosome Number in *Ulmus pinnato-ramosa* Dieck. et
Koehne

SOV/20-127-1-58/65

This is confirmed by reference 7 for several species, only for *U. americana* and *U. turkestanica* the somatic chromosome number is 56. What the foreign botanists understand by *U. turkestanica* has, however, hitherto remained unclear; sometimes this denotation is used for the species mentioned in the title. It is a culture species in the Kazakhstan and in Soviet Central Asia. It is closely related to the *U. pumila* L., an uncultivated species of East-Siberia and the Far East. Either species belongs to the section *Madocarpus* Domort, the series *Pumilae* C.K.Schn., and the subsection *Foliaceae* C.K.Schn. The species mentioned in the title is not regarded as an independent species by all systematics. It is often regarded as variety (Ref 2) by foreign publications or as a synonym to other species respectively. Apart from its unclear systematic position, *U. pinnato-ramosa* is quickly growing and drought-resistant to a great extent. This elm is of great interest for steppe reforestation. For determining the chromosome number the author used one-year-old plants of seeds collected in the Dzhanibekskiy station of the institute mentioned in the Association, in the West-Kazakhstan (supplied by Mrs. S. D. Erpert). The somatic chromosome number

Card 2/3

Chromosome Number in *Ulmus pinnato-ramosa* Dieck. et
Kochne

SOV/20-127-1-58/65

28 ($2n = 28$) (Figs 1, 2) was microscopically determined in preparations. Sometimes there were only 27 (Fig 3). *U. pinnato-ramosa* belongs therefore to the category of diploid species with a haploid chromosome number of 14 which is characteristic of the entire *Ulmus* genus. The determined chromosome number corresponds to that of *U. pumila*. This must, however, not be regarded as a direct proof of the identity of these two species. The author assumes that the mentioned chromosome number of *U. turkestanica* ($2n = 56$) does not characterize this species, but spherically shaped subspecies as *U. densa* Litw. and *U. Androssowii* Litw. P.K. Shkvarnikov and I. A. Grudinskaya helped to prepare the manuscript for printing. There are 3 figures and 8 references, 2 of which are Soviet.

ASSOCIATION: Institut lesa Akademii nauk SSSR (Forestry Institute of the Academy of Sciences, USSR)

PRESENTED: January 15, 1959, by V. N. Sukachev, Academician

SUBMITTED: January 14, 1959
Card 3/3

SHERSHUKOVA, Z.S.

Ornithogeographical maps at the conference on atlases of the
republics, territories, and provinces. Ornitologiya no.5:
446-447 '62. (MIRA 16:2)
(Birds—Geographical distribution—Maps)

SHERSHUL'SKAYA, L.V. (Moskva, B-218, 4-ya Cheremushkinskaya ul., 11/11, kv.193)

Specific tumor antigen adsorption on erythrocytes. Vop.onk.
4 no.2:137-140 '58. (MIRA 12:8)

1. Iz virusologicheskoy laboratorii (zav. - deystvitel'nyy chlen
AMN SSSR prof.L.A.Zil'ber) Gosudarstvennogo onkologicheskogo
instituta im. P.A.Gertsena (dir. - prof.A.N.Novikov, nauchnyy
rukovoditel' - chlen-korrespondent AMN SSSR prof.A.I.Savitskiy).
(NEOPLASMS, imminol.

adsorption of specific antigen of human tumors
on erythrocytes (Rus))

SHERS-UL'SKAYA, L.V. (Moskva, b-218, Choremushinskaya ul. d.11/11, kv.193)

Studies on specific antigens of human malignant tumors in passive anaphylactic reaction. [with summary in English]. Vop.onk. 4
no.3:259-263 '58 (MIRA 11:8)

1. Iz virusologicheskoy laboratorii (zav. - deystvitel'nyy chlen AMN SSSR prof. L.A. Zil ber) Gosudarstvennogo onkologicheskogo instituta im. Gertsena (dir. - prof. A.N. Novikov, nauchn.rukovoditel' - chlen-korrespondent AMN SSSR prof. A.I. Savitskiy).

(NEOPLASMS, immunology,
passive anaphylactic reaction (Rus))

BERGOL'TS, V.M., SHERSHUL'SKAYA, L.V.

Antigenic properties of the so-called "human leukemia factor" passed through chick embryo chorionic membranes [with summary in English]. Biul.eksp.biol. i med. 45 no.5:84-89 My '58 (MIRA 11:6)

1. Iz virusologicheskoy laboratorii Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena (dir. - prof. A.N. Novikov; nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR A.I. Savutskiy), Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR L.A. Zil'berom.

(LEUKEMIA, immunology,

antigenic properties of leukemia factor passed on chick embryo chorionic membranes (Rus))

SHERSHUL'SKAYA, L.V.; VADOVA, A.V.; NARTSISSOV, N.V.; BIRYULINA, T.I.

Acquired ~~imm~~munological tolerance to antigens of normal and neoplastic
human tissue. Vop.onk. 6 no.9:3-9 S '60: (MIRA 14:1)
(TUMORS) (ANTIGENS AND ANTIBODIES)

LYUDOGOVSKAYA, L.A. (Moskva, K-104, Bogoslavskiy per., d.16/6, kv.25)
SHERSHUL'SKAYA, L.V. (Moskva, V-218, Prosoyuznaya ul., 35/11,
kv. 193)

Use of the method of adsorption on erythrocytes in the study
of tumor viruses and specific tumor antigens. Vop.onk. 9 no.2:
118-126 '63. (MIRA 16:9)

1. Institut eksperimental'noy i klinicheskoy onkologii AMN
SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blochin)
(VIRUS, RESEARCH) (ONCOLOGY, EXPERIMENTAL)
(ANTIGENS AND ANTIBODIES) (ERYTHROCYTES)

SHIRSHOVA, L.V.; YEFILOVA, Ye.S.

Study of specific antigens in the organs of mice and rats
with Mazurenko's viral leukemia by the method of precipitation
in agar. Vest. AMN SSSR 19 no.11:46-50 '64. (MIRA 18:3)

1. Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR,
Moskva.

KOLMYKOVA, V.N.; SHERSHUL'SKAYA, L.V.

Cytological studies on rat leukemia caused by viruses of mouse
hemocytoblastosis-reticulosis. Vop. onk. 10 no.9:54-57 '64.

(MIRA 18:4)

1. Iz laboratorii etiologii leykozov (zav. - doktor med.nauk
N.P.Mazurenko) Instituta eksperimental'noy i klinicheskoy onkologii
AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin.
Adres avtorov: Moskva, I-110, ul. Shchepkina, 61.2, korp. 9,
Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.

SHERSHUNOVA, L. I., KUZNETSOV, N. I., SALGANIK, M. G., KUSHNER, K. H. F.,
KOSTIN, I. G., and ZUBAREVA, K. A.,

"The Effect of Microdose Irradiation of Hen's Eggs upon Hatchability and other
Characters of Chickens."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands,
2-10 Sep 63

ZUBALEVA, L.I., KOSTIN, I.G., KUZNETSOV, N.I., SHERSHUNOVA, L.I.

Survival rate and productivity of the offspring of hens
irradiated with small doses of gamma rays during embryogeny.
Trudy Inst. gen. no.33:148-154 '65.

(MIRA 18:12)

KUZIN, A.M.; KOSTIN, I.G.; SHERSHUNOVA, L.N.; ZUBAREVA, L.A.

Use of ionizing radiations in poultry farming. Radiobiologiya
3 no.2:311-316 '63 (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Radiobiologicheskaya laboratoriya Tomilinskoy ptitsefabriki.

L 36357-66 EWT(1)

ACC NR: AP6005312

SOURCE CODE: UR/0413/66/000/001/0046/0047

INVENTOR: Bayev, Ye. F.; Burylin, Ye. I.; Snezhko, Yu. V.; Shershunova, S. I.

ORG: none

TITLE: ²⁵Delay line with inductive elements containing ferromagnetic toroidal cores. Class 21, No. 177496

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 46-47

TOPIC TAGS: delay line, ferromagnetic material, inductive element

ABSTRACT: An Author Certificate has been issued for a delay line with inductive elements containing ferromagnetic toroidal cores. To obtain the optimum coupling coefficient of inductive elements of the delay line, these ferromagnetic cores have four protrusions located in pairs

Card 1/2

UDC: 621.374.5

SOV/112-57-9-18492

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 57 (USSR)

AUTHOR: Sherskov, V. Ya., Stakhanov, G. A.

TITLE: Experience with Deep Water-Table Lowering at the Construction Site of the Kakhovka Hydroelectric Station (Opyt glubinnogo vodoponizheniya na stroitel'stve Kakhovskoy GES)

PERIODICAL: V sb.: Opyt iskusstv. ponizheniya urovnya grunt. vod na str-ve gidroelectrostantsiy, M.-L. Gosenergoizdat, 1956, pp 30-38

ABSTRACT: Bibliographic entry.

Card 1/1

86387

S/020/60/135/002/007/036
C111/C222

16.5400 16.5500

AUTHOR: Shersnev, M.

TITLE: Strong Dimensionality of Mappings and the Dimensionality Characteristic of Arbitrary Spaces Related to it

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 2
pp. 274 - 276

TEXT: The author considers the dimensionality of a space defined with the aid of coverings. A space always means a metric space, a mapping always means a continuous mapping.
Given a mapping f of the space X into the space Y . f is called strongly zero-dimensional if to every $\epsilon > 0$ there exists a $\delta > 0$ so that if the diameter of an open set O of the Y is smaller than δ , then the inverse image $f^{-1}(O)$ is the sum of open sets H_α pairwise disjoint, where $\text{diam } H_\alpha < \epsilon$ for all α . The strong dimensionality defined according to Yu. Smirnov is denoted with $\text{Dim } f$.
Theorem 1: Let f be a mapping of X into Y . Then $\dim X \leq \dim Y + \text{Dim } f$.
Theorem 2: If $\dim X = n$, $k \leq n$, then there exists a bounded mapping f of X
Card 1/3

86387

S/020/60/135/002/007/036
C111/C222

Strong Dimensionality of Mappings and the
Dimensionality Characteristic of Arbitrary
Spaces Related to it

into the Euclidean E^k , so that $\text{Dim } f = n-k$; the set of such mappings is
everywhere dense in the space $C(X, E^k)$ of all bounded mappings of X into E^k .
For strongly zero-dimensional mappings M. Katetov (Ref. 1^a) has proved the
theorems.

The proof of the two theorems is based on :

Theorem A : Let f be a mapping of X into Y , where Y has a countable base. Then
in X every set M of the space X can be included in a set M_0 of the type G_δ
so that f has the same strong dimensionality on M_0 and M : $\text{Dim}_{M_0} f = \text{Dim}_M f$.

Theorem B: The projection $\tilde{\kappa}$ of the E^n onto the subspace E^k has the $\text{Dim } \tilde{\kappa} = n-k$.

Lemma 1 : If in the superposition fg of two mappings one mapping is strongly
zero-dimensional, then it holds $\text{Dim } fg = \text{Dim } f + \text{Dim } g$.

Lemma 2 : To every mapping g of X into Y a mapping φ of X in $E^{\text{dim } Y}$ can be
given so that $\text{Dim } \varphi = \text{Dim } g$.

The author mentions P.S. Aleksandrov and A. Taymanov.

Card 2/3

86387

Strong Dimensionality of Mappings and the
Dimensionality Characteristic of Arbitrary
Spaces Related to it

S/020/60/135/002/007/036
C111/C222

There are 12 references : 6 Soviet, 1 Japanese, 2 Polish, 1 Dutch, 1 German
and 1 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: June 11, 1960, by P.S. Aleksandrov, Academician

SUBMITTED: June 11, 1960

Card 3/3

SHERSNEV, M.L. (Moskva)

Characteristics of the dimensionality of a metric space using
the dimensional properties of its mappings onto Euclidean
spaces. Mat.sbor. 60 no.2:207-218 F '63. (MIRA 16:4)
(Topology) (Dimensional analysis)

SHERSTENNIKOV F.M.

CHARUTSKIY, A.P.; SHERSTENNIKOV, F.A.; FOMIN, M.G., redaktor; KOVA-
LIKHINA, M.F., tekhnicheskiiy redaktor.

[Installation of metal bridges by means of four-pole derricks]
Montazh metallicheskih mostov pri pomoshchi chetyrekhmachtovogo
pod'emnika. Moskva, Izd-vo dorozhno-tekhn. lit-ry Gushosdora MVD
SSSR, 1952. 74 p. [Microfilm] (MLRA 7:10)
(Bridges, Iron and steel) (Cranes, derricks, etc.)

SHERSTENNIKOV, N.A., prof.

Recollections of N.A. Semashko. Sov. zdrav. 20 no.12:67-70
'61. (MIRA 15:6)

1. Zaveduyushchiy kafedroy organizatsii zdravookhraneniya
Bashkirskogo meditsinskogo instituta.
(SEMASHKO, NIKOLAI ALEKSANDROVICH, 1874-1949)

SHERSTENNIKOV, N.A., prof.

Meeting of physicians graduating from the medical department of
Kazan University in 1922. Kaz. m d. zhur. no.6:70-71 '62.
(MIRA 17:5)

1. Bashkirskiy meditsinskiy institut, Ufa.

SHERSTENNIKOV, Ye. N.:

SHERSTENNIKOV, Ye. N.: "The arterial ring of the brain base and the arteries of the optic lobe of man and certain mammals." Molotov State Medical Inst. Molotov. 1955. (DISSERTATION FOR THE DEGREE OF DOCTOR IN MEDICAL SCIENCE).

Knizhnaya letopis
No. 15, 1956. Moscow

SHERSTENNIKOV, Ye.N. (Kemerovo, 1, ul. 40 let Oktyabrya, 13, kv. 6)

Arteries of the optic thalamus in man. Arkh. anat. gist. i embr. 40
no. 1:91-95 Ja '61. (MIRA 14:2)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii
(zav. -dotsent A.A. Chashnikov) Kemerovskogo meditsinskogo instituta.
(OPTIC THALAMUS—BLOOD SUPPLY)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120010-8

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120010-8"

SHERSTENNIKOV, Ye.N. (Kemerovo, 1. ul. Ushakova, 3, kv. 27)

Macrotome for the preparation of serial sections of organs.
Arkh. anat., gist. 1 embr. 48 no.1:94-95 Ja '65.

(MIRA 18:11)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii
(zav.- dotsent A.A. Chashnikov) Kemerovskogo meditsinskogo
instituta. Submitted Jan. 17, 1963.

LEVIN, S.R.; LUKIN, Yu.A.; BIBIKOV, G.G.; SHERSTENNIKOVA, L.K.

Determining the hydraulic resistances of operating city gas mains.

Gaz. prom. 10 no.4:20-22 '65.

(MIRA 18:5)

SHERSTOVA, O. S.

Effect of chemical and electrical narcosis on phagocytosis. Arkh.
pat., Moskva 14 no. 2:78-81 Mar-Apr 1952. (CLML 22:5)

1. Of Molotov Medical Stomatological Institute (Work Supervisor --
Prof. M. R. Mogendovich).

SOYUZOV, A., prof., doktor tekhn.nauk; SHERSTINSKIY, E., inzh.

Results of the operational testing of the experimental sectional -
barge train on the Volga River. Rech. transp. 19 no. 6:13-14
Je '60. (MIRA 14:2)

(Volga River--Towing)

VAGANOV, Gennadiy Ivanovich, dots., kand. tekhn. nauk; SHANCHUROVA, Valentina Konstantinovna, kand. tekhn. nauk; SHERSTINSKIY, Efraim Khaimovich, inzh.; Prinimali uchastiye: SINOTINA, G.N., dots., kand. tekhn. nauk; POSTNOV, A.V., kand. tekhn. nauk; LESYUKOV, V.A., inzh. vodnogo transporta, dots., kand. tekhn. nauk, retsenzent; FOMKINSKIY, L.I., starshiy nauchnyy sotr., retsenzent; KAMENUCHINA, A.N., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Ship propulsion; methods and examples for carrying out ship propulsion calculations]Tiaga sudov; metodika i primery vypolneniya sudovykh tiagovykh raschetov. Moskva, Rechnoi transport, 1962. 241 p. (MIRA 15:8)

1. Kafedra organizatsii dvizheniya Gor'kovskogo instituta inzhenerov vodnogo transporta (for Lesyukov). 2. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i ekspluatatsii vodnogo transporta (for Fomkinskiy).

(Ship propulsion)

SHERSTKOV, Yu. A.

Introducing quantitative spectrum analysis in geological investigations. Izv. AN SSSR. Ser. fiz. 19 no.1:117-119 Ja-F '55.

(MLRA 8:9)

(Spectrum analysis) (Spectrometer)

SHERSTKOV, Yu. A.

met
not
Quantitative spectral determination of iron, titanium, magnesium, and calcium oxides in solutions of refractory clays.
Yu. A. Sherstkov (Geol. Admin., Kemerovo). *Zashchita*
Lob. 21, 320-4 (1955).—After the detn. of Al_2O_3 and SiO_2
by the usual chem. methods, the soln. of refractory clay
(general compn.: SiO_2 68, Al_2O_3 32, Fe_2O_3 2, TiO_2 1.6,
CaO 0.5, and MgO 0.7 wt. %) was transferred into a glass
cup through the center of which was passed a C electrode
(with a tip 3 mm. in diam.). A 1.2-mm. shaft in the center
and through the walls of the electrode allowed an even flow
of soln. into the spark interstice. The geometry of the ful-
gurator (diagram shown) prevented splashing of liquid and
deposition of salts on the electrodes. With the aid of cali-
bration graphs obtained with standard solns., spark spec-
trographs made possible the simultaneous detn. of Fe_2O_3 ,
 TiO_2 , MgO, and CaO in 15-20 different samples of clay
during 8 hrs. *A. P. Kodoby*

chem

10M

PM

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13086

Author : Sherstkov, Yu.A., Fedina, Ye.P.

Inst : Kemerovo Geological Administration, USSR.

Title : Use of Spectral Method for Phase Analysis of Nickel Ores.

Orig Pub : Zavod. laboratoriya, 1955, 21, No 9, 1060-1061

Abstract : To determine the nickel content, the nickel ores were dissolved in aqua regia, after which the dissolved portion was analyzed by a chemical method, and the precipitate was dissolved by spectral method. The source of light was an ac arc, and the spectrograph ISP-22 was used. In precipitates, containing talkite-chlorite-shales, quartz diorites, and serientinites, with a nickel content from 0.02 to 1%, the nickel silicate was determined. Quartz was introduced into the sample to serve as a buffer, and copper oxide was

Card 1/2

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120010-8

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 13086

introduced to serve as an internal standard. The sample was completely burned in the crater of a carbon electrode. The standards were prepared synthetically by moistening the quartz with the solution and then drying and grinding. The analytical pair of lines was Ni(λ : 3050.8 A) and Cu(λ : 3063.4 A). The discrepancies between the spectral and chemical results do not exceed 4% with a content greater than 0.1%, and $\pm$ 30% at smaller contents. The scheme used to eliminate the slit is given, the shape of the electrodes is described, as is also the adapter for sharpening the lower electrode.

Card 2/2

24(7)

PLANE I BOOK EXPLOITATION

L'ov. Universitet

Materialy I Vsesoyuznogo soveshaniya po spektroskopii, 1956.
G. Ili. Atomnaya spektroskopiya (Materials of the 10th All-Union
Conference on Spectroscopy, 1956. Vol. 2: Atomic Spectroscopy)
Mosc., Izd-vo L'vovskogo univ., 1958. 568 p. (Series: Ite:
Naukovednyy sbornik, vyp. 4(9)). 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.);
B.S. Repovent, Doctor of Physical and Mathematical Sciences;
I.L. Pabellinskiy, Doctor of Physical and Mathematical Sciences;
V.A. Fabrikant, Doctor of Physical and Mathematical Sciences;
V.G. Koritskiy, Candidate of Technical Sciences; S.M. Rayzkiy,
Candidate of Physical and Mathematical Sciences; L.K. Klimovskaya,
Candidate of Physical and Mathematical Sciences; V.S. Milyanchuk
(Deceased), Doctor of Physical and Mathematical Sciences; A.Ye.
Glauberman, Doctor of Physical and Mathematical Sciences;
Ed.: S.L. Gaser; Tech. Ed.: T.V. Jaranyuk.

PURPOSE: 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.

COVER: This volume contains 177 scientific and technical studies
of atomic spectroscopy presented at the 10th All-Union Confer-
ence on Spectroscopy in 1956. The studies were carried out by
members of scientific and technical institutes and include
extensive bibliographies. The studies cover many phases of
atomic spectroscopy: the study of spectra of rare earths,
electromagnetic radiation, physicochemistry of gas discharge
spectra, atomic absorption spectroscopy, the study of spectra of
uranium production, physics and technology of gas discharge
optics and spectroscopy, abnormal dispersion in metal vapors,
spectroscopy and the combustion theory, spectrum analysis of ores
and minerals, photographic methods for quantitative spectrum
analysis of metals and alloys, spectral determination of the
hydrogen content of metals by means of isotopes, tables and
atlases of spectral lines, spark spectrographic analysis,
statistical study of variation in the parameters of calibration
curves, determination of traces of metals, spectrum analysis in
metallurgy, thermochemistry in metallurgy, and principles and
practice of spectrochemical analysis.

Card 2/31

SOV/1700

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

Belamed, Sh.G., and A.M. Saltykova. Spectrographic
Determination of Tin, Lead, Antimony, and Cadmium in
Titanium, Zirconium, Tantalum, and Niobium 181
Rubinshteyn, R.M., and M.G. Karpel'. Spectral Determination
of Organic Impurities on the Surface of Metal Parts 182
Rusakov, A.K., and M.V. Il'yasova. Atlas for the Identification
of Flame Spectra of Elements of 2,800-9,000 Å Wavelengths 184
Alkseyeva, A.I., I.G. Griman, S.K. Kalinin, Yu. A. Kuznetsov,
and V.L. Maruyev. First Edition of the Spectral Atlas
of Elements: The Mercury Spectrum 185
Gurevich, I.M. The UTR-1 Pulse Photometer for Measuring
Instantaneous Luminous Flux 187
Sheratova, Yu.A., and M.M. Moskov. Photoelectric Method
for Recording Contours of Spectral Lines in a D-C Arc 188
Burf, O.P., A.I. Rymov, and D.A. Shklover. Spectral Charac-
teristics of Ultraviolet Radiation Sources and Receivers 190

Card 12/31

SHERSTKOV, Yu.A.; NOSKOV, M.M.

Photoelectric method for registering the contours of spectrum
lines in a d.c. arc. Fiz.sbor. no.4:188-190 '58.

(MIRA 12:5)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Spectrophotometry)

SHERSTKOV, Yu.A.; PLATONOVA, G.P.; LICHMANOVA, V.T.

Direct current arc as a source of heterogeneous light. Izv.vys.
ucheb.zav.; fiz. no.3:68-77 '59. (MIRA 12:10)

1. Ural'skiy gosuniversitet imeni A.M.Gor'kogo.
(Electric arc)

SOV/51-6-6-24/34

24(3), 24(7)

AUTHOR: Sherstkov, Yu.A.

TITLE: On the Problem of Applicability of the Cowan and Dicke Function to a Direct-Current Arc: (K voprosu o primenimosti funktsii Kauena i Dike dlya dugi postoyannogo toka)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 817-818 (USSR)

ABSTRACT: The paper reports an experimental check of the correctness of the Cowan and Dicke function (Ref 3) in description of excitation processes in a direct-current arc. The author obtained photoelectrically and photographically the distribution of intensities in the plane of the central cross-section of the arc for resonance lines of barium and strontium atoms and ions and the radial variation of temperature for lines of Ca I at 5105 and 5218 Å. The line intensity distributions along the arc radius were calculated from the experimental curves using Hörmann's method (Ref 4). Temperature at the arc axis was equal to 5600°K and it fell away from the axis region (3700°K at $r = 3.6$ mm). Comparing the experimental data and theoretical curves (figure on p 818) the author found that the Cowan and Dicke function can, in general, be used to calculate the shape of lines emitted in a direct-current arc.

Card 1/2

On the Problem of Applicability of the Cowan and Dicke Function to a Direct-Current
Arc

SOV/51-6-6-24/34

but if this function is applied to the resonance lines of atoms with
low ionization potentials the errors may reach 20%. There are
1 figure and 5 references, 2 of which are Soviet, 2 German and 1 English.

Card 2/2

SHEVSTKOV, Yu. A., Cand Phys-Math Sci (diss) -- "Experimental check of the theory of light irradiation of a nonhomogeneous layer of gas, on the example of constant-current arc discharge". Sverdlovsk, 1960. 11 pp (Min Higher and Inter Spec Educ USSR, Ural State Univ A. M Gor'kiy), 120 copies (EL, No 11, 1960, 120)

PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNT0.

Eds. (Title page): G. P. Skorniyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skorniyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

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Materials of the Third Ural Conference (Cont.)

SOV/6181

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

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PART I

Sherstkov, Yu. A., and L. F. Maksimovskiy. Investigation of the dependence of the total intensity of spectral lines on the concentration of elements in an arc-discharge plasma 4

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Sherstkov, Yu. A.

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PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

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PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

Sherstkov, Yu. A., and L. F. Maksimovskiy. Investigation of the dependence of the total intensity of spectral lines on the concentration of elements in an arc-discharge plasma 4

L 26125-66 ENT(1)/ENP(e)/ENT(m) IJP(c) JD/WJ/JG/GG/WH
ACC NR: AP6015803

SOURCE CODE: UR/0386/66/003/010/0401/0404

AUTHOR: Sherstkov, Yu. A.; Nepsha, V. I.; Nikiforov, A. Ye.; Cherepanov, V. I.

ORG: Ural State University (Ural'skiy gosudarstvennyy universitet)

TITLE: Influence of an external electric field on the EPR signals of pairs of exchange-coupled chromium ions in ruby 55
B

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 10, 1966, 401-404

TOPIC TAGS: electron paramagnetic resonance, line splitting, corundum, chromium, resonance absorption, exchange reaction

ABSTRACT: The use of an effect predicted theoretically by one of the authors (Nikiforov, Fiz. tverdogo tela v. 7, 1248, 1965), consisting in nonlinear splitting of EPR signals of pairs of exchange-coupled Cr^{3+} ions in corundum, is proposed for a unique interpretation of the many weaker supplementary EPR signals in corundum due to pairs of exchange-coupled chromium ions. The effect was used to investigate experimentally the spectral regions from 480 to 680 G and from 850 to 1200 G in a corundum crystal containing 0.05% chromium by weight. The RE 1301 apparatus was used for the measurement. For $H \parallel E \parallel C_3$ (H and E are the electric and magnetic field intensities and C_3 the corundum optical axis) the influence of the electric field was observed in five signals at 525, 590, 926, 994, and 1093 G. From plots of the derivative of the absorption signal and of the theoretical dependence of the splittings of the EPR signals

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SOLOV'YEV, A.L.; SHERSTNEV, A.E.; IVANOV, I.I.; PARSHIN, A.N.; GORYUKHINA,
T.A.

Some data and considerations on possible means of chemotherapy for
melanomas. Vop. onk. 6 no.6:88-89 Je '60. (MIRA 14:3)
(TUMORS) (TYROSINE) (CARBON--ISOTOPES)

CA

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Chemo-bacteriological characteristics of water-supply sources and city-water distribution systems. A. I. Sherstnev. *Gigiena i Sanit.* 1950, No. 2, 40. - Chem. analysis of lakes of the Murmansk region showed a low level of mineral salt content, explained by geographic location; extremely low hardness and the presence of much NH_4 are mentioned. The microflora in the water distribution system of Murmansk is usually limited to below 10 specimens per ml. G. M. Kosolapoff

SHERSTNEV, A. I., Cand Biol Sci -- (diss) "Sanitary condition and sanitation of the Pregola River in the ^{region} ~~region~~ of the city of Kalinin-grad." Mos, 1958. 14 pp (Acad Med Sci USSR), 220 copies (KL, 15-58, 114)

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SHERSTNEV, A. / ,

Use of ethyl alcohol lacqueur for the inside painting of water
supply tanks. Mor.flot 18 no.3:14-15 Mr '58. (MIRA 11:4)

1. Rukovoditel' sanitarno-promyshlennoy laboratorii Kaliningradskoy
sanenidstantsii.

(Ships--Equipment and supplies) (Tanks--Corrosion)

MIMAN, V.S.; SMERSTILY, A.K.

Hasse, etc. of multiplicity of particles. Vestn. rent. i rad.
38 No.3-69-70 My-Je '63. (MIRA 17:7)

1. Iz leningradskogo "Meditsinya bel'mitsy "V ponyat' 25 oktyabrya"
(izdanye vrach' A.F. Yishanovskiy) leningradskogo gorodskogo otдела
zdravookhraneniya i terapevticheskoy kliniki usovershenstvova-
vaniya vrachey (nachalnik - prof. G.A. Smagin) V.yenno-meditsi-
niskoy ordina lenina akademii imeni S.M. Kirova.

16,4600 16,2800

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S/140/61/000/006/007/007
C111/C444

AUTHOR: Sherstnev, A. N.

TITLE: On the solution of equations in functional derivatives

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika,
no. 6, 1961, 155-168

TEXT: Let C be the space of the continuous functions on $I = [0, 1]$ with the Wiener measure. Let $L_2(C)$ be the class of those functionals which are square summable with respect to the Wiener measure:

$$\int_C |F[x]|^2 d_w x < \infty.$$

Let $H_n(u)$ be the Hermitian polynomials; let $\{a_k(t)\}_1^\infty$ be a complete orthonormal system of real functions on $[0, 1]$; all $a_k(t) \in L_2[0, 1]$.
Let be

$$\Psi_{m_1 \dots m_N}[x] = \Psi_{m_1 \dots m_N 0 \dots 0}[x] = \prod_{1 \leq k \leq N} H_{m_k} \left[\int_0^1 a_k(t) dx(t) \right] \quad (1.1)$$

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