DUNDUCHENKO, L.Ye. (Kiyev)

Extremes of certain Stiltjes functionals. Izv. vys. ucheb. zav.; mat. no.3:78-90 '65. (MIRA 18:7)

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B

AUTHOR: Dunduchenko, L. Ye.

ORG: none

TITLE: Use of electrical simulation for evaluating the curvature of level lines during convex mapping of a circular ring

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 2, 1966, 270-284

TOPIC TAGS: mathematics, function

ABSTRACT: The author evaluates from above and below the curvature of iso-lines (i.e., images of the circle $|z| = r$, $q < r < 1$) during single sheet and convex mapping of the circular ring $K_z(q;\ )$, $0 < 1 < |z| < 1$, by a class of functions which are concave within it. The problem is reduced mathematically to the search for the roots of certain functions which are solved by conformal mapping and electrical simulation. The paper presents a detailed derivation and discussion of all the pertinent mathematical relationships. The electrical simulation shown in the article which led to the establishement of the general pattern of iso-lines, was carried out at the electrical simulation laboratory of the Mathematics Institute of the UkrSSR Academy of Sciences (Institut matematiki Akademii nauk USSR). The author thanks Corresponding Member AN UkrSSR P. F. Fil'chakov for assistance in setting up the test for electrical simulation. Orig. art. has: 3 figures and 37 formulas. [JPRS: 36,487]

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UDC: 517.53

Card 1/1 mlp

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AUTHORS: Dunduchenko, L. O. and Kas'yanyuk, S. A.

TITLE: On a regular function with positive real part in an ellipse

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 147-150

TEXT: Let E denote a univalent simply-connected region of the z-plane, bounded by the ellipse $z = a\cos\theta + ib\sin\theta$, $c^2 = a^2 - b^2$. Picard showed that the function $f(z)$, regular in E, can be expressed by the series

$$f(z) = c_0 + \sum_{n=1}^{+\infty} c_n P_n(z), \quad \mathrm{Re}\ c_0 = 1 \qquad (1)$$

where

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$$P_n(z) = (z + \sqrt{z^2 - c^2})^n + (z - \sqrt{z^2 - c^2})^n \qquad (2)$$

is a non-normalized Chebyshev polynomial. One sets

$$\xi = \frac{z + \sqrt{z^2 - c^2}}{a + b}, \quad q = \frac{a - b}{a + b} \qquad (3)$$

Using Schwarz's formula for the ellipse, it is possible to prove the following Theorem 1: The necessary and sufficient condition for the single-valued function f(z) to have a positive real part in E, is that it should be expressed by the formula

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$$f(z) = i\beta + \frac{1}{2\pi}\int_{-\pi}^{\pi}\left[F\left(\frac{z + \sqrt{z^2 - c^2}}{a + b}\, e^{-i\theta}\right) + 2\Phi\left(\frac{z + \sqrt{z^2 - c^2}}{a + b}\, e^{i\theta}\right)\right] d\mu(\theta) \qquad (6)$$

where μ and β are real constants, and

$$F(x) = \frac{1 + x}{1 - x} + 2\sum_{n=1}^{+\infty} \frac{q^{2n}}{1 - q^{2n}}\,(x^n - x^{-n}); \quad 2\Phi(x) = F\left(\frac{q}{x}\right) - 1 \qquad (7)$$

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It is noted that if one takes in formula (6) the function $\mu(\theta)$ as a step function with a single discontinuity at $\theta = 0$, one obtains a regular normalized function which effects a univalent mapping of E on the right halfplane. Theorem 2: If Ref(z) is positive in E and the regular function f(z) can be expanded in Series (1), then the exact inequalities

$$|c_n| \leqslant \frac{2}{(a+b)^n(1-q^n)}, \quad n = 1,2,\ldots, \qquad (9)$$

hold, which are only satisfied by functions of type

$$w = \frac{i}{\pi}\left[\zeta\left(u - \frac{1}{4n}\right) - \zeta_3\left(u + \frac{1}{4n}\right)\right], \quad n = 1,2,\ldots, \qquad (10)$$

where

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$$u = \frac{1}{2\pi i} \ln\left(\frac{z + \sqrt{z^2 - c^2}}{a + b}\right) ; \quad \zeta(u) = \frac{\sigma'(u)}{\sigma(u)} ; \quad \zeta_3(u) = \frac{\sigma_3'(u)}{\sigma_3(u)}$$

A function f(z) which can be expanded in Series (1) is said to be typically-real in E, if for any z,(z E) the quantity Imf(z)·Imz retains its sign for Imz $\neq$ 0. In the following, one sets $c_0 = 0$ in Eq. (1). Theorem 3: If f(z) is regular and typically-real in E, then the regular function

$$\varphi(z) = \frac{1}{a^2 - b^2}\left[bz - a\sqrt{z^2 - c^2}\right] \cdot f(z) \qquad (11)$$

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On a regular function ....

has a positive real part in E. A further theorem gives inequalities related to typically-real functions. The definition is given of a regular function, convex in the direction of the imaginary axis; two theorems are stated for such functions (analogous to Theorems 1 and 2). There are 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

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SUBMITTED: June 21, 1961

Card 6/6

DUNDUKOV, G., kand.ekon.nauk

Balance of lunchrooms. Obshchestv.pit. no.1:53-59 Ja '60.
(MIRA 13:5)
(Restaurants, lunchrooms, etc.--Accounting)

DUNDUKOV, G.; KUPRIYENKO, A.; KAMYSHANOV, P.

A useful collection ("Journal-order form of bookkeeping in commerce." Reviewed by G.Dundukov, A.Kupriyenko, P.Kamyshanov). Sov.torg. 33 no.2:57-58 F '60. (MIRA 13:5)
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DUNDUKOV, G.

For a successful carrying out of the 1961 budget and model preparation of the draft state budget for 1962. Fin. SSSR 22 no.7:8-17 Jl '61. (MIRA 14:7)

1. Nachal'nik byudzhetnogo upravleniya Ministerstva finansov SSSR.

(Budget)

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1. Glavnyy inzh. Novosibirskogo upravleniya khleboproduktov (for Gun). 2. Direktor Sibirskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov yego pererabotki (for Krshеminskiy).

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1. Kafedra bukhgalterskogo ucheta Moskovskogo instituta narodnogo khozyaystva im. Plekhanova.
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1. Moskovskiy institut narodnogo khozyaystva im. G.V.Plekhanova.
(Restaurants, lunchrooms, etc.--Auditing and inspection)

GORCHEV, I.I.; PASEKOVA, V.D.; DARKOV, G.V.; DUNDUKOV, G.F., red.; FILIPPOVA, E., red.; LEBEDEV, A., tekhn. red.

[State budget of the U.S.S.R. and the budgets of the Union Republics; statistical collection] Gosudarstvennyi biudzhet SSSR i biudzhety soiuznykh respublik; statisticheskii sbornik. Pod red. G.F.Dundukova. Moskva, Gosfinizdat, 1962. 222 p. (MIRA 15:6)

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BELOUSOV, M.S., kand. ekon. nauk, dots.; VORONIN, M.G., kand. ekon. nauk; DUNDUKOV, G.S., kand. ekon. nauk, dots.; KAMYSHANOV, P.I., kand. ekon. nauk; KOLESOV, V.S.; KUPRIYENKO, A.N., kand. ekon. nauk; PEN'KOV, Ye.G., kand. ekon. nauk, dots.; SOLONEVICH, F.F., Prinimal uchastiye SMORODIN, M.B.; MUKHIN, N.A., retsenzent; FEDOTOV, G.N., retsenzent; STARCHAKOVA, I.I., red.; KIRAKOZOVA, N.Sh., red.; MEDRISH, D.M., tekhn. red.

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(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.
Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; LARABANOV, V.A., retsenzent, red.; BATUNER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIOSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBREZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER,
(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.
Ye.F., red.; TSYPLAKOV, V.D. [deceased], red., GRABLINOV, P.N., tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn. red.

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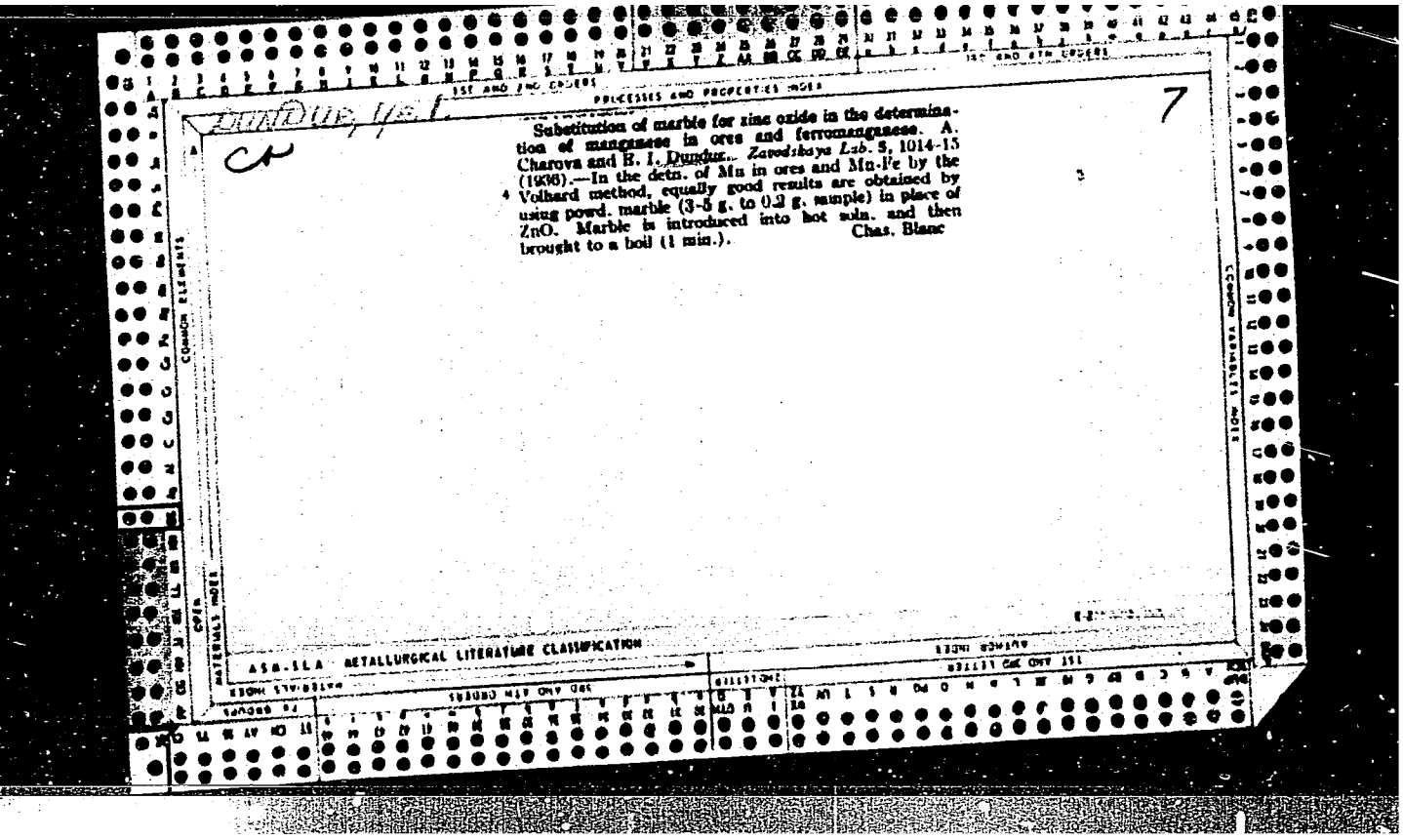
1. Iz Kazakhskogo instituta onkologii i radiologii.
(KAZAKHSTAN—CANCER)



Substitution of marble for zinc oxide in the determination of manganese in ores and ferromanganese. A. Charova and B. I. Dundur. *Zavodskaya Lab.* 5, 1014-15 (1936).—In the detn. of Mn in ores and Mn-Fe by the Volhard method, equally good results are obtained by using powd. marble (3-5 g. to 0.3 g. sample) in place of ZnO. Marble is introduced into hot soln. and then brought to a boil (1 min.). Chas. Blanc

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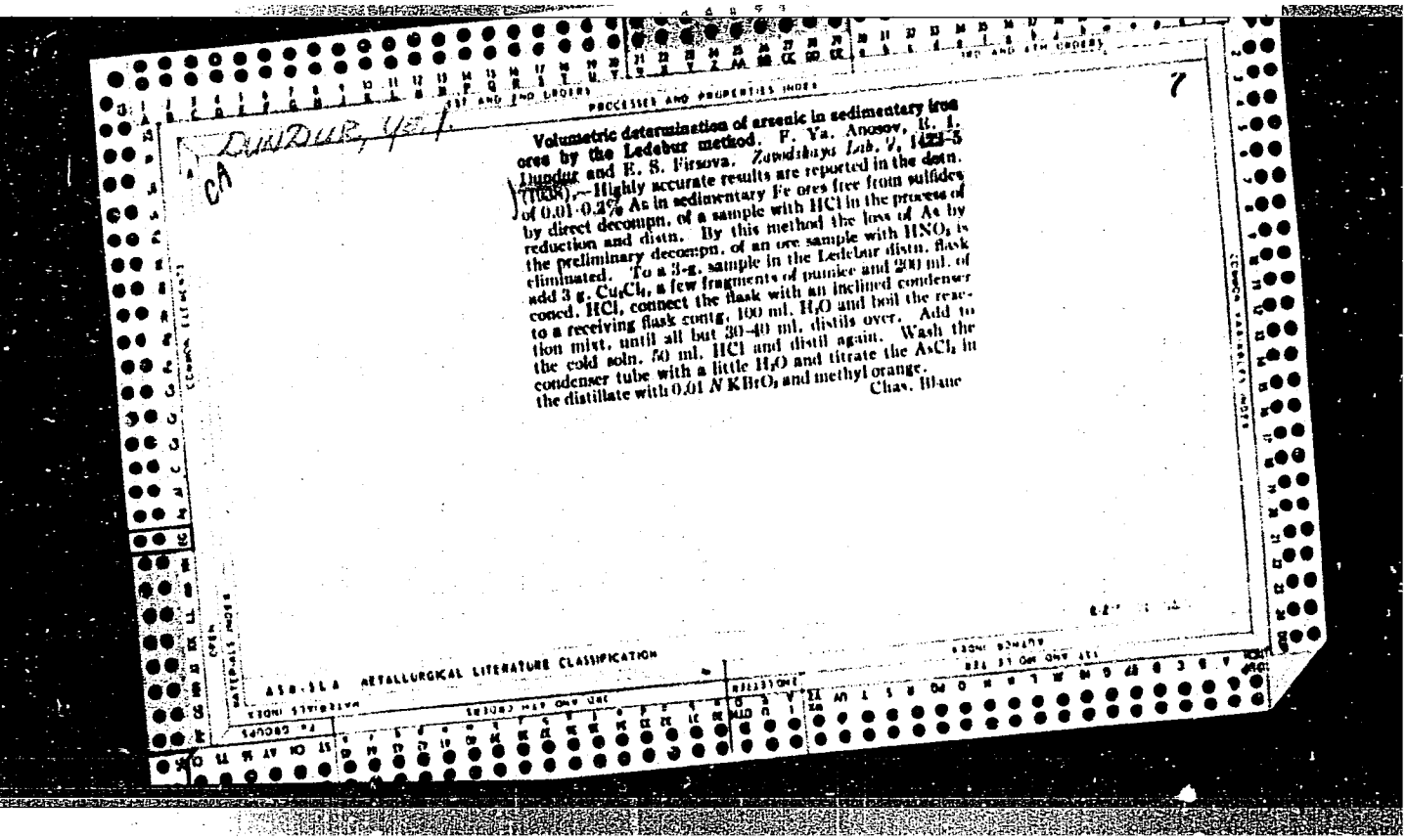
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

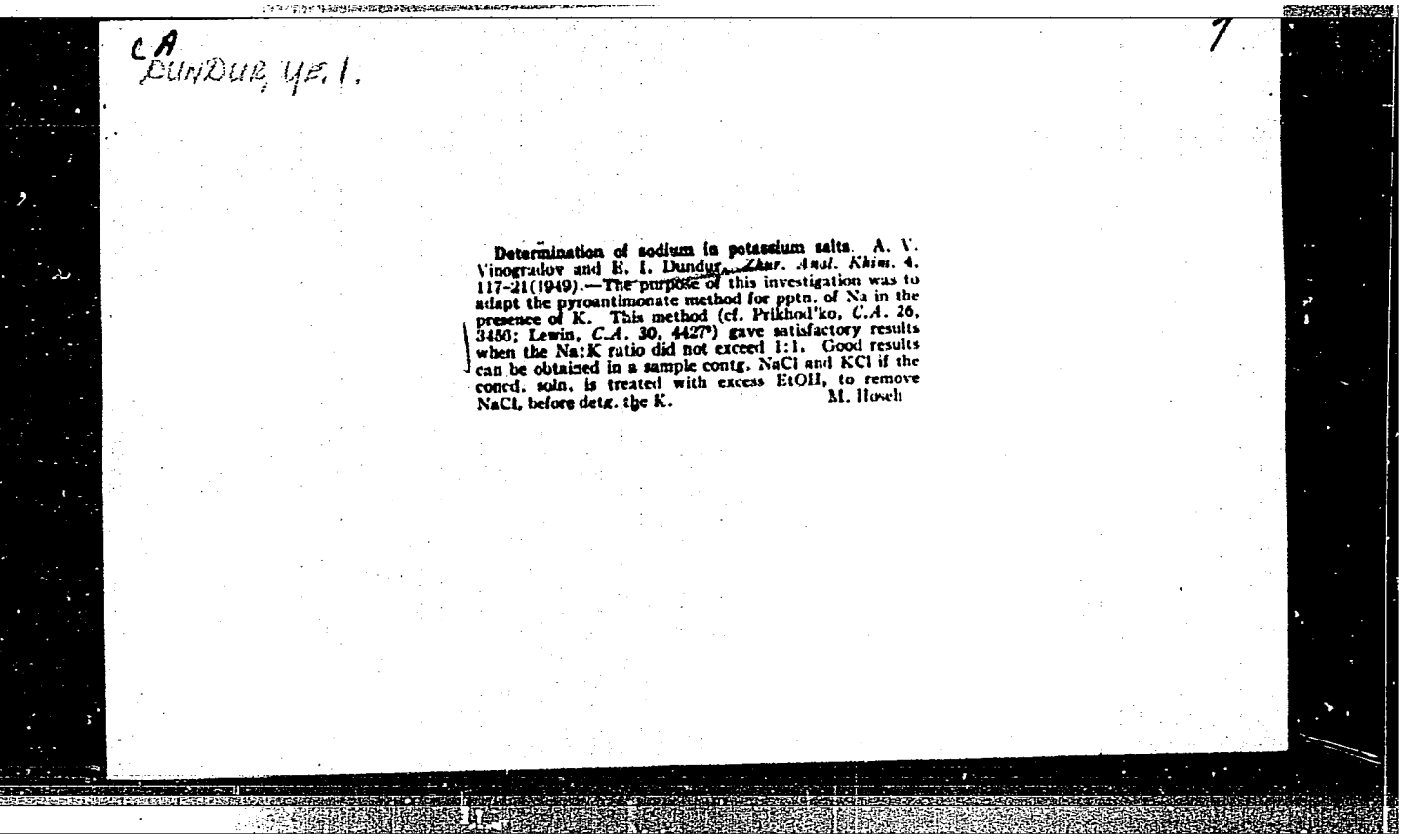


Volumetric determination of arsenic in sedimentary iron ores by the Ledebur method. F. Ya. Anosov, R. I. Dundur and E. S. Firsova. *Zavodskaya Lab.*, 9, 1423-5 (1940).—Highly accurate results are reported in the detn. of 0.01-0.2% As in sedimentary Fe ores free from sulfides by direct decompn. of a sample with HCl in the presence of reduction and distn. By this method the loss of As by the preliminary decompn. of an ore sample with HNO_3 is eliminated. To a 3-g. sample in the Ledebur distn. flask add 3 g. Cu_2Cl_2, a few fragments of pumice and 200 ml. of conc'd. HCl, connect the flask with an inclined condenser to a receiving flask contg. 100 ml. H_2O and boil the reaction mixt. until all but 30-40 ml. distils over. Add to the cold soln. 50 ml. HCl and distil again. Wash the condenser tube with a little H_2O and titrate the $AsCl_3$ in the distillate with 0.01 *N* $KBrO_3$ and methyl orange.
Chas. Blanc

ACS DUNDUR, YE. I.

Chemistry & Technology of Explosives

Alkalimetric method of determining magnesium oxide in calcined magnesia. E. I. DUNDUR AND B. A. BEHAN. *Zavodskaya Lab.*, 15 [12] 1471 (1949).—After removing the Ca by treating with H_2SO_4 and then neutralizing with 10% NaOH, add 5 to 7 drops of 6 *N* H_2SO_4, heat to dissolve hydroxides, and neutralize with dry $CaCO_3$, checking with methyl-red indicator. Precipitate $Mg(OH)_2$, filter, and titrate excess NaOH with HCl. Deviations ranged from −0.16 to +0.07%. The determination requires 1.5 to 2 hr. B.Z.K.



CA
Dundue, Ye. I.

7

Determination of sodium in potassium salts. A. V. Vinogradov and E. I. Dundur. *Zhur. Anal. Khim.* 4, 117-21(1949).—The purpose of this investigation was to adapt the pyroantimonate method for pptn. of Na in the presence of K. This method (cf. Prikhod'ko, *C.A.* 26, 3450; Lewin, *C.A.* 30, 4427[9]) gave satisfactory results when the Na:K ratio did not exceed 1:1. Good results can be obtained in a sample contg. NaCl and KCl if the concd. soln. is treated with excess EtOH, to remove NaCl, before detg. the K. M. Hosch

ZORINS, K.; DUNDURS, J.; ZVIRBULIS, H., red.; UDRE, V., tekhn. red.

[Increasing labor productivity is the path to abundance] Darba raziguma paaugstinasana - cels uz parpilnību. Riga, Latvijas Valsts izdevnieciba, 1961. 71 p. (MIRA 15:3)
(Latvia--Agriculture--Labor productivity)

30726

S/020/61/141/003/014/021
B101/B117

15.2510

AUTHORS: Aleynikov, F. K., Slizhis, V. A., Paulavichyus, R. B., and Dundzis, P. V.

TITLE: Direct electron-microscopic examination of the fine structure of glass

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 3, 1961, 674-676

TEXT: Since the structure of replicas disturbs the electron-microscopic examination of glass, the authors developed a method of direct electron-microscopic glass examination. They used a JEM-5V electron microscope. Glass films were obtained from 0.2-0.5 mm thick glass laminas by grinding and polishing, or by blowing the molten glass with subsequent etching. Glass laminas were dissolved in HF until they permitted good penetrability to the electron beam. The laminas were first etched with 20%, then with 10; 4; 2; and 0.5% HF. Blown glass was etched with 4; 2; and 0.5% HF. Distinct fine structures were also obtained by etching with lye. The electron-microscopic examination showed that two-, three-, and multi-component glasses were not homogeneous. [Abstracter's note: electron

Card 1/3

Direct electron-microscopic ...

microphotographs not reproducible.] Microheterogeneities can be deciphered by a proper choice of the solvent. The following dimensions of microheterogeneities were found:

Type of glass or its composition	Dimensions of microheterogeneities, Å
Optical quartz glass	-
Glass of quartz tubes	-
$Na_2O \cdot 5SiO_2$	60 - 150
$Na_2O \cdot 1.5Be_2O \cdot 5SiO_2$	50 - 150
$Na_2O \cdot CaO \cdot 5SiO_2$	60 - 80
$Na_2O \cdot ZnO \cdot 5SiO_2$	30 - 150
$Na_2O \cdot CdO \cdot 5SiO_2$	25 - 40
$Na_2O \cdot 2.5BaO \cdot SiO_2$	60 - 80
$Na_2O \cdot B_2O_3 \cdot 5SiO_2$	80 - 150
$Na_2O \cdot 9B_2O_3 \cdot 15SiO_2$	microheterogeneity of the skeleton ~ 30 Å

Card 2/3

Direct electron-microscopic ...

Type of glass or its composition	Dimensions of microheterogeneities, Å
Window sheet glass	60 - 80
Cover glass	80 - 150

Microinhomogeneities do not only depend on the type of thermal treatment but also on the glass composition. There are 2 figures, 1 table, and 8 references: 6 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: I. Warshaw, J. Am. Ceram. Soc., 1, 4 (1960).

ASSOCIATION: Institut khimii i khimicheskoy tekhnologii Akademii nauk LitSSR (Institute of Chemistry and Chemical Technology of the Academy of Sciences Litovskaya SSR)

PRESENTED: May 30, 1961, by N. V. Belov, Academician

SUBMITTED: May 30, 1961

Card 3/3

S/236/62/000/002/003/004
E071/E135

AUTHORS: Aleynikov, F.K., Dundzis, P.V., Paulavichyus, R.B., and Slizhis, V.A.

TITLE: A direct electronmicroscopic investigation of the fine structure of di-, tri- and multi-component silicate glasses

PERIODICAL: Trudy Akademii nauk Litovskoy SSR, Seriya B, 2(29), 1962, 95-108.

TEXT: In view of the scarcity and some uncertainties of the results obtained in published investigations, a study of the fine structure of transparent glasses was undertaken, on the following types of glass: Na_2O 5 SiO_2, $R_2O.xRO.5\ SiO_2$ (where R_2O = Li_2O, Na_2O, K_2O; RO = BeO, MgO, CaO, ZnO, SrO, CdO, BaO, PbO; x = 0.5, 1.0, 1.5, 2.0, 2.5 and 3.0) as well as on some multi-component glasses - ordinary sheet glass, glass electrodes etc. The development of a suitable method was done using glass of composition $Na_2O.CdO.5\ SiO_2$. The electron microscope used had a ...ing power of about 8-10 Å (magnification 50-100 thousand). ...on replicas with a preliminary shading of a fresh

glass fracture at an angle of 15-20° with platinum or tungsten oxide were used. These replicas, however, showed their own structure and not that of the glass. Subsequently carbon-platinum replicas were made, applying the method of D.E. Bradley, by spraying a thin platinum-carbon film at an angle of 45° to the surface of the glass. Since this method is very laborious and the replicas can to some extent distort the actual glass structure, a direct method of preparation of glass films for studying the structure was developed. Initially, this consisted in etching thin, polished glass plates (0.2-0.5 mm thick); later blown glass films were used which were subsequently etched in hydrofluoric acid or mixtures of hydrofluoric with another mineral acid, until a necessary thin film was obtained. The experimental procedure is described in some detail. The structure observed directly on a thus prepared specimen of $Na_2O \cdot CdO \cdot 5\ SiO_2$ glass was identical with that observed on the replica prepared by the Bradley method. The specimens prepared by etching showed not only the surface structure of glass, but in some cases the distribution of micrononuniformities in the whole thickness of the glass film. Therefore this method of investigation was used in further studies. It was established

that none of the glasses investigated were homogeneous; they consist of a skeleton rich in silica and a multiplicity of microdendrides which depend on the chemical composition of glass as well as on its thermal history and technological factors. The majority of the glasses investigated had microdendrides of an order of 40-100 Å.
There are 4 figures and 1 table.

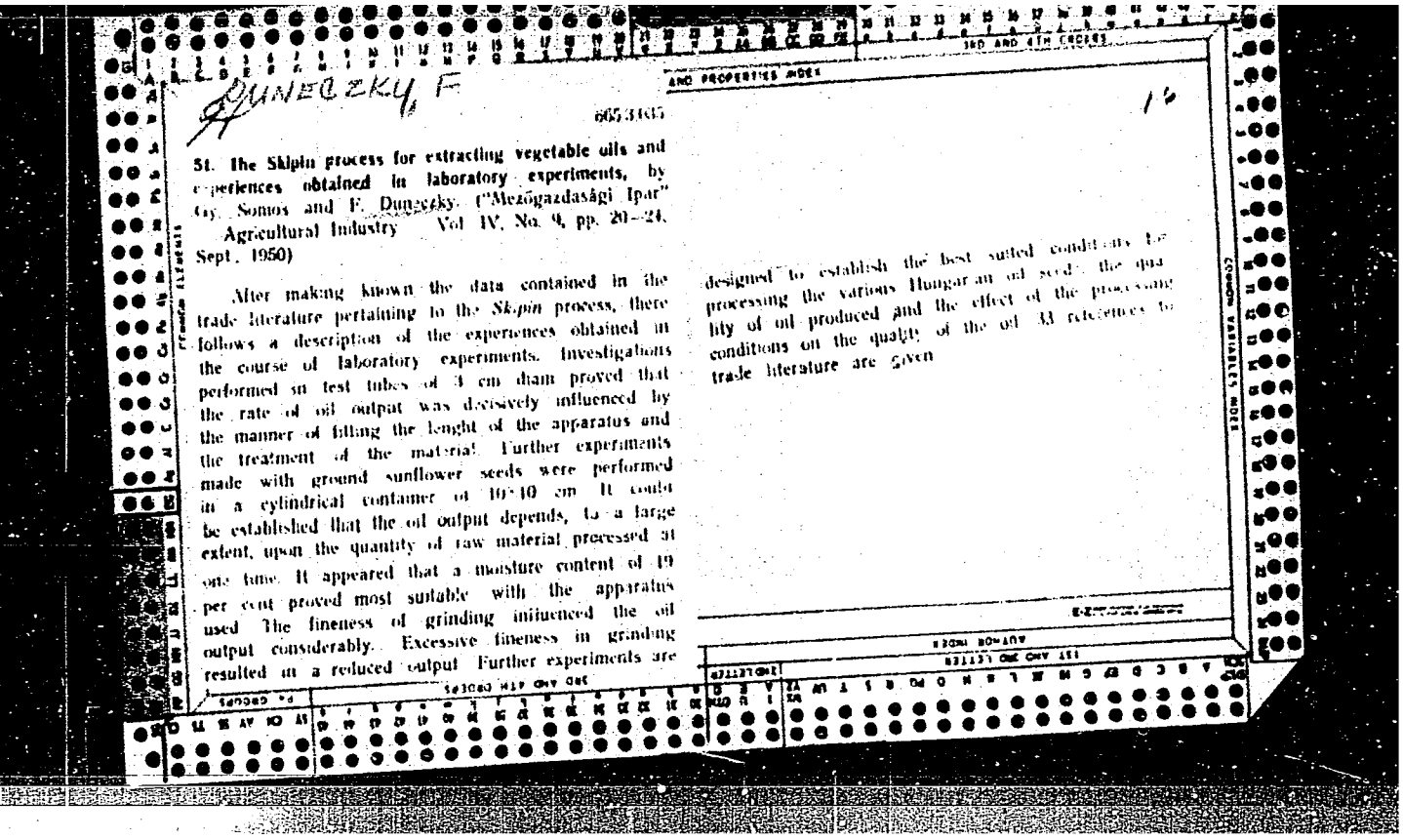
ASSOCIATION: Institut khimii i khimicheskoy tekhnologii
Akademii nauk Litovskoy SSR
(Institute of Chemistry and Chemical Technology,
AS Lithuanian SSR)

SUBMITTED: December 2, 1961.

ALEYNIKOV, F.K.; DUNDZIS, P.V. [Kundzys, P.]; PAULAVICHYUS, R.B. [Paulavicius, R.]; SLIZHIS, V.A. [Slizys, V.]

Direct electron microscope study of the fine structure of two-, three, and multicomponent silicate glasses. Trudy AN Lit. SSR. Ser. B no.2:95-108 '62. (MIRA 18:3)

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy SSR.



DUNECZKY, F

665.3(05)

51. The Skipin process for extracting vegetable oils and experiences obtained in laboratory experiments, by Gy. Somos and F. Dunecky. ("Mezőgazdasági Ipar" Agricultural Industry Vol IV, No. 9, pp. 20–24, Sept., 1950)

After making known the data contained in the trade literature pertaining to the *Skipin* process, there follows a description of the experiences obtained in the course of laboratory experiments. Investigations performed in test tubes of 3 cm diam proved that the rate of oil output was decisively influenced by the manner of filling the lenght of the apparatus and the treatment of the material. Further experiments made with ground sunflower seeds were performed in a cylindrical container of 10×10 cm. It could be established that the oil output depends, to a large extent, upon the quantity of raw material processed at one time. It appeared that a moisture content of 19 per cent proved most suitable with the apparatus used. The fineness of grinding influenced the oil output considerably. Excessive fineness in grinding resulted in a reduced output. Further experiments are designed to establish the best suited conditions for processing the various Hungarian oil seeds, the quality of oil produced and the effect of the processing conditions on the quality of the oil. 33 references to trade literature are given.

VOLKOVITSKY, I., mekhanik voditel', 3-go klassa serzhant; TEBUYEV, V., starshiy serzhant; SMOLIN, Ye., michman; DUNEK, A., starshiy serzhant; SHONOKHOV, A., starshiy serzhant

Exercises were held. Starsh.-serzh. no.9:26-27 S '62. (MIRA 15:11)

(Military education)

DUNENA, A.A.

G-2

Category : USSR/Electricity - Dielectrics

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4115

Author : Shamovskiy, L.M., Dunena, A.A., Gosteva, M.I.
Title : Conductivity of Silver Bromide in the Presence of Bromine

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 4, 640-648

Abstract : It is shown that an additional p-conductivity($\Delta\sigma$) is produced in the crystals in the case of additive coloring of AgBr crystals in Br vapors. The dependence of $\Delta\sigma$ on the partial pressure of the bromine vapors (P_{Br_2}) and on the temperature is $\Delta\sigma = 1.82 \times 10^{-2} \sqrt{P_{Br_2}} \cdot \exp(-135.20/RT)$ ohm^{-1}cm^{-1}atmos$^{1/2}$. The value of $\Delta\sigma$ in AgBr is comparable in magnitude with the ionic conductivity of these crystals even at low values of P_{Br_2}. The mechanism of formation of p-conductivity is discussed. The atoms and molecules of bromine are not dissolved and do not diffuse in the AgBr lattice. The holes formed as a result of the electron exchange between the lattice ions and the bromine atoms adsorbed on the surface of the crystal can recombine with the cation vacancies to form V_1 centers, which are in thermal equilibrium with the free holes. The

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Category : USSR/Electricity - Dielectrics G-2

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4115

energy of the thermal dissociation of the V_1 centers in silver bromide is found to be approximately 0.3 electron volts. No F-centers are formed in silver bromide owing to the absence of anion vacancies in its lattice.

Card : 2/2

DUNICHEV, K. I., Cand Phys-Math Sci -- (diss) "Stratifiable pairs of manifolds in projective four-dimensional space." Moscow, 1960. 7 pp; (Ministry of Education RSFSR, Moscow City Pedagogical Inst im V. P. Potemkin); 150 copies; bibliography at end of text (10 entries); (KL, 17-60, 138)

DUNICHEV, [redacted] I.

Fibering of two-parameter straight line famili/s by lines in n-dimensional projective space. Dokl. AN SSSR 149 no.4:763-764 Ap '63. (MIRA 16:3)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V.I.Lenina. Predstavleno akademikom P.S.Novikovym.
(Geometry, Projective)

DUNIEC, Jan (Krakow)

Designing of slag concretes. Przegl budowl i bud mieszk 33 no.2:106-107 F '61.

DUNIEWICZ, Milan
SURNAME, Given Names

(1)

Country: Czechoslovakia

Academic Degrees: MD

Affiliation: Infectious Diseases Clinic (Infekcni klinika) Chief Prof Dr J. PROCHAZKA Prague 8 - Bulovka

Source: Prague, Prakticky Lekar, Vol 41, No 15-16, Aug 21, 1961; pp 726-726 and 728-729

Data: "Our Experiences with the Treatment of the Acute Stage of Bang's Disease"

"Our Experiences with the Treatment of the Chronic Stage of Bang's Disease by Means of the Intradermal Vaccine"

DUNIEWICZ, Milan CZECHOSLOVAKIA

MD

Prague

Prague, Veterinarstvi, No 11, Nov 62, pp 327-328.

"Our Experiences with Skin Test F-alergen in the Course of Bang's Disease"

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610003-5"

DUNIEWICZ, M.; KROO, A.; DOBIAS, J.

Lesions of the central nervous system during the course of herpes zoster. Cas.lek.cesk 100 no.36:1141-1145 8 S '61.

1. Infekeni klinika Praha 8 Bulovka, prednosta prof. MUDr. J. Prochazka. Patologickoanatomicke odd. Praha 8 Bulovka, prednosta doc. MUDr. J. Viklicky.

(HERPES ZOSTER compl) (CENTRAL NERVOUS SYSTEM dis)

HEJZLAR, M.; DUNIEWICZ, M.

Cultivation of Brucella. Cesk. epidem. 11 no.1:46-52 Ja '62.

1. Vojensky lekarsky vyzkumny a doskolovaci ustav J. Ev. Purkyne, Praha Klinika infekcnich nemoci, Praha 8 - Bulovka.
(BRUCELLA culture)

DUNIEWICZ, M.; TICHY, V.

Acute infectious lymphocytosis. Cesk. pediat. 18 no.4:329-336 Ap '63.

1. Infekcni klinika nemocnice na Bulovce v Praze, prednosta prof. dr. J. Prochazka, DrSc. Infekcni oddeleni nemocnice na Bulovce v Praze, vedouci MUDr. M. Bradacova.
(LYMPHOCYTOSIS) (LEUKOCYTE COUNT)
(FEVER) (GASTROENTERITIS)
(EOSINOPHILIA)

POTUZNIK, V.; SVEJNOCH, V.; DUNIEWICZ, M.

Surface fixation test in brucellosis. Cesk. epidem. 13 no.4: 209-212 Jl '64.

1. Mikrobiologické oddelení Krajské hygienicko-epidemiologické stanicy, Ceske Budejovice, Infekční klinika, Praha 8 - Bulovka.

SRAMKOVA,L.; SCHECK,P.; DUNIEWICZ,M.

Treatment of a case of severe tetanus with prolonged curarization. Cas.lek.cesk.103 no.8:214-218 21 F'64.

1. Anesteziologicke oddeleni nemocnice na Bulovce v Praze 8, (vedouci: MUDr. P. Scheck) a Infekcni klinika nemocnice na Bulovce v Praze 8; (prednosta: prof.dr. J.Prochazka,DrSc).

*

DUNIEWICZ, Milan

Sacro-ileitis in Bang's disease. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.5:587-590 '65.

1. Infekcni klinika, Praha (prednosta - prof. MUDr. J. Prochazka).

CZECHOSLOVAKIA UDC 616.981.42-036.12-06:616.12

TESAROVA, J.; DUNIEWICZ, M.; Clinic of Infectious Diseases, Faculty of General Medicine, Charles University (Infekcni Klinika Fak. Vseob. Lek. KU), Prague 8 - Bulovka, Head (Prednosta) Prof Dr J. PROCHAZKA.

"Late Cardiac Complications in the Chronic Stage of Bang's Disease."

Prague, Casopis Lekaru Ceskych, Vol 105, No 36-37, 9 Sep 66, pp 988 - 991

Abstract [Authors' English summary modified]: A report describing complications suffered by a patient with epidemiologically and serologically confirmed Bang's disease is presented. Myocarditis with signs of decompensation and auricular fibrillation and a block of the left ramus of Tawara on the EEG were observed. 2 Figures, 13 Western, 6 Czech references. (Manuscript received May 66).
1/1

ZAK, Miloslav; KLESA, Josef; DUNIK, Oldrich

Use of aluminum in manufacturing power transformers over 10 mVA. Energetika Cz 12 no.4:203-206 Ap '62.

1. Leninovy zavody, n.p., Plzen.

Dunikov, Ye. Ye.

S/103/60/021/009/013/013
B012/B063

AUTHORS: Gadzhiyev, M. Yu., Gul'ko, F. B., Dzhelyalov, A. R., Dunikov, Ye. Ye., Kazakov, V. D., Litovchenko, I. A., Korkin, K. B., Prokhorov, N. L.

TITLE: Seventh Scientific and Technical Conference of Young Scientists of the Institute of Automation and Telemechanics of the AS USSR

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 9, pp. 1326-1331

TEXT: The sed'maya nauchno-tekhnicheskaya konferentsiya molodykh uchenykh IAT AN SSSR po voprosam avtomaticheskogo upravleniya (Seventh Scientific and Technical Conference of Young Scientists of the Institute of Automation and Telemechanics of the IAT AS USSR), held from March 14 to 16, 1960, dealt with problems of automatic control. It was attended by more than 400 persons, among them about 200 representatives of various organizations in Moscow and the Moscow oblast', who discussed research work carried out by young scientists in 1959. 75 lectures were delivered. The

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Conference was opened by Academician V. A. Trapeznikov, Director of the Institute of Automation and Telemechanics. Professor M. A. Ayzerman, Doctor of Technical Sciences, spoke about "Scientific Problems of the Theory of Finite Automatic Machines (konechnyy avtomat)". At the final plenary meeting, Ye. V. Voloshina and Ye. V. Shtil'man gave a report on the "Simulation of Teaching Processes". The following sections worked between the two plenary meetings: 1) for automatic control with sub-sections for the theory of automatic control and automatic control systems; 2) for automatic checking; 3) for computers; 4) for elements and installations in automation and telemechanics; 5) for statistical methods in automation; 6) for the theory of relay circuits and finite automatic machines (konechnyy avtomat); 7) for automatic electric drive. The following lectures were delivered at the first sub-section of the first section: V. N. Novosel'tsev reported on the determination of the formula for optimal control of relay-pulse systems of second order for the case of pure relay control and for the case of relay control in the presence of an insensitive range. I. S. Morosanov spoke about the effect of fluctuations on extremal relay systems in the self-oscillating state.

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The author showed that the methods of calculating statistical transfer coefficients in the form suggested by I. Ye. Kazakov cannot be employed in this case. V. G. Gradetskiy and Yu. I. Ostrovskiy gave a report on "The Operation of Extremal Control Systems in Which the Extreme Value of Noise Is Memorized". N. V. Grishko gave the results of the determination of optimal characteristics of an extremal system under random actions. T. G. Babunashvili spoke about the investigation of the state of a control system having a servo-motor with a non-linear characteristic of speed and a strong feedback. He mentioned Kh. Masser. A. I. Morozov reported on a "Qualitative Study of Differential Equations Obtained When Solving a Problem of Synthesis" and explained A. M. Letov's method of synthesizing control systems. N. M. Siskin spoke about the determination of periodic modes of operation of pulse systems. R. P. Parsheva investigated the problem of stability according to Lagrange in the case of transient modes of operation of five-dimensional automatic, non-linear control system. V. A. Kislyakov spoke about "Longitudinal Stability of an Air-plane With a Delayed Autopilot". He mentioned a method of asymptotic approximations devised by N. M. Krylov and N. N. Bogolyubov. B. Ye. Chuprun reported

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610003-5"

Seventh Scientific and Technical Conference of Young Scientists of the Institute of Automation and Telemechanics of the AS USSR

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on "The Formulation of the Law of Controlling Linear, Stable Objects, Guaranteeing Least Displacement of the Controller". The following lectures were delivered at the second sub-section of the first section: B. B. Buyanov reported on the application of the theory of optimal quick-acting systems for controlling the drive of flying scissors of a rolling mill. P. C. Volik spoke about an automatic optimizer with two channels and two limitations, which is used to determine the extreme value immediately on an object of large inertia. I. N. Bocharov reported on an instrument recording distribution curves of any size. Ye. A. Bateyeva spoke about a three-channel optimizer for chemical production. V. G. Sholckhov gave an experimental proof of the convergence of the tuning of noise generators. K. B. Norkin's lecture dealt with the automatic tuning of the output cascade of a transmitter with the aid of a system of automatic scanning. V. N. Shadrin described a program-control system with frequency division of its channels. V. V. Karibskiy and A. P. Yevseyeva's reports contained data on a universal interpolator for digital program-control systems and data on the automatic selection of the interpolation sections on machine tools with a linear interpolator. M. I. Tayts described the test sample

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of an apparatus for automatic programming. B. N. Andreychikov spoke about the dynamic accuracy of machine tools with program control. M. M. Khasanov's report dealt with the dynamic characteristics of air conditioners. The following lectures were held at the second section: M. V. Rybashov and I. M. Ponamarenko explained several circuits for the dynamic correction of transmitters. V. S. Likhovinskiy spoke about "A Capacitive Measuring Apparatus in Systems of Digital Program Control of Manufacturing Processes". M. A. Prusov gave a report on the principles of designing and constructing an instrument for measuring the temperature of rotating parts. Ya. V. Gushchin spoke about the possibility of using crystal layers of semiconductors on cadmium-sulfide backings for the indication of radioactive radiation. A. A. Kolesakov spoke about the possibility of using radioisotopes and the method of nuclear spectroscopy for automatic checking of the metal content of alloys and concentration products of ores of non-ferrous metals. V. A. Viktorov reported on the effect of higher harmonics in coaxial vibrators upon the operation of an extremal endovibrator level-meter. The following lectures were held at the third section: A. S. Putkovskiy - "Simulation of Some Objects With Distributed Parameters"; A. V. Shileyko -

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"The Method of Synthesizing the Optimal Construction of a Digital Simulator"; R. N. Chernyshev - "Computing Amplifier With a Power Stage at the Output"; B. A. Pereverzev - "Combined Electromechanical Block of an Electric Simulator"; F. B. Gul'ko - "Quick-acting Electron Multipliers". Zh. A. Novosel'tseva spoke about "A Block for Controlled Delay"; K. B. Norkin - "A Method of Automatic Determination of the Extreme Value of a Multi-variable Function". V. A. Yakovlev - "Discrete Electric Differentiator". V. A. Brik - "Digital Computer for Compiling Programs for Machining Workpieces on a Milling Machine". The following lectures were held at the fourth section: Ye. A. Andreyeva spoke about a method of calculating the consumption and power characteristics of the "nozzle-flap" element in the case of a viscous, compressible and incompressible liquid. L. A. Tenenbaum derived formulas for the consumption and power characteristics of the "nozzle-flap" element in the case of a non-stabilized laminar flow of a viscous, incompressible liquid. T. K. Yelenevich reported on pneumatic relay elements. V. S. Materina spoke about "Magnetic Amplifiers at the Output of Alternating-current Magnets". M. A. Boyarchenkov - "Direct-current Reversible Magnetic Amplifier With Increased Efficiency" and "Action of a Magnetic Amplifier on a Counterelectromotive Force" (second

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Seventh Scientific and Technical Conference of Young Scientists of the Institute of Automation and Telemechanics of the AS USSR

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16

lecture). N. L. Prokhorov gave a report on the existing memory circuits of magnetic, logical elements from the viewpoint of continuity. A. L. Rozovskiy - "Contactless Code Pulse Remote Measuring System". N. V. Silayev "Contactless Program Computer for the Automatic Operation of a Line Casting Machine". V. S. Serzhers' report dealt with the possibility of constructing circuits for proportional amplifiers, differentiators, and integrators of commercial controllers with the help of semiconductor elements. V. B. Gogolevskiy reported on transients in electromagnetic mechanisms and on the vibration of contacts. The following lectures were delivered at the fifth section: L. P. Sysoyev solved the problem of judging the parameters and detecting the signals which are linearly dependent on random parameters. M. Yu. Gadzhiyev reported on the determination of an intelligence signal mixed with a noise in the case of an independent variation of the carrier frequencies. I. I. Palshev studied an apparatus of continuous and discrete mode of operation, which is used to expand a random function in a canonical series. E. L. Kappel'baum described an optimal operator used to determine an intelligence signal on the background of normal noise with random dispersion. A. I. Teyman spoke about problems connected with the

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overshooting of random functions. Ye. S. Kochetkov explained the construction of theoretically and practically optimal, linear integral estimates of the expected value of the correlation function of steady random processes. T. I. Tovstukha's lecture dealt with the effect of random noise upon the operation of extremal control systems of the step- and gradient-types. V. V. Baykovskiy spoke about the determination of the transmissivity of a channel with discrete difference modulation in the absence of noise. V. M. Posazan gave a report on the theoretical and experimental study of time systems in remote measurement with different cycles and different kinds of indication. The following lectures were held at the sixth section: V. D. Kazakov - "The Form of Minimum Symmetric Boolean Functions With Any Number of Variables". V. P. Didenko explained a digital method of minimizing Boolean functions in consideration of the unused state. V. V. Vorzheva gave a survey of investigations of circuits with real contacts. T. M. Aleksandridi spoke about the synthesis of switching schemes on the basis of two logical operations - the Scheffer stroke and its dual function. L. A. Gagev reported on "The Minimization of the Construction of Finite Automatic Machines (konechnyy avtomat)".

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O. P. Kuznetsov described logical networks with unequal delay times of the various elements. V. D. Kazakov and V. V. Mazurchenko spoke about "The Realization of Boolean Functions With n Variables on Contactless Logical Switches by Means of the Method of Supplement to a Definition". A. D. Talantsev reported on "The Application of Logic-algebraical Transient Operators in the Analysis and Synthesis of Finite Automatic Machines (konechnyy avtomat) of a Special Type". The following lectures were held at the seventh section: O. I. Khasayev - "The Operation of an Asynchronous Motor of a Frequency Transformer With Semiconductor Triodes". V. M. Kolesnikov - "Investigation of Thyratron Pulse Drive With a Step-by-step Motor". V. D. Vershinin - "Application of the Principle of Invariance for the Stabilization of the Speed of Direct-current Motors". O. A. Kossov - "Direct-current Drive With a Semiconductor Pulse Rectifier". Chzhao Chzhou-lun' - "Optimal Control of Flying Drum Scissors With Eccentrics". A. R. Dzhelyalov - "Induction Motor With Longitudinal and Transverse Excitation as an Object of Automatic Control".

Card 9/9

DUNIKOWSKA, Hanna

Condition of the bacterial flora in the oral cavity under steel bridges in the light of bacteriological studies. Czas. stomat. 19 no.1:89-93 Ja '66

1. Z Zakladu Protetyki Dentystycznej AM w Krakowie (Kierownik: doc. dr. L. Sieppel) i z Zakladu Mikrobiologii Lekarskiej AM W Krakowie (Kierownik: prof. dr. Z. Przybylkiewicz).

[illegible] A. The Points Method for Defining [illegible] Elastic Medium Acted upon by Mass Forces.

[illegible] metoda określania przemieszczeń [illegible] znajdujących się pod działaniem sił mas[illegible] [illegible] Warszawa, 1956 pp. 101-[illegible]

This paper outlines a method of defin[illegible] displacements [illegible] problem in an elastic medium. The method is based [illegible] displacement of points made on a model with [illegible] is used for [illegible] injections. The point [illegible] were made on [illegible] antic model using an Abbe comparator. For measuring the co[illegible] of the points a universal Zeiss [illegible] the purpose. The method here [illegible] elastic media acted upon [illegible] a flat state of stresses and [illegible] For quantitative transformation [illegible] recorded in natural conditions [illegible] model, the formula deduced [illegible] This method may prove useful [illegible] conditions of displacement [illegible] medium. It may also be used [illegible] with the function of [illegible] It may be applied [illegible] problems.

DUNIKOWSKI, A.

Model investigations of displacemements caused by an excavation in an elastic medium. p. 303.
(ARCHIWUM GORNICTWA. Vol. 1, no. 3, 1956 Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol, 6, No. 9 Sept. 1957 Uncl.

DUNIKOWSKI, Boleslaw, dr.

Technological progress and the young generation. (2) Przegl techn no.16:10-11 Ap '62.

DUNIKOWSKI, Boleslaw, dr.

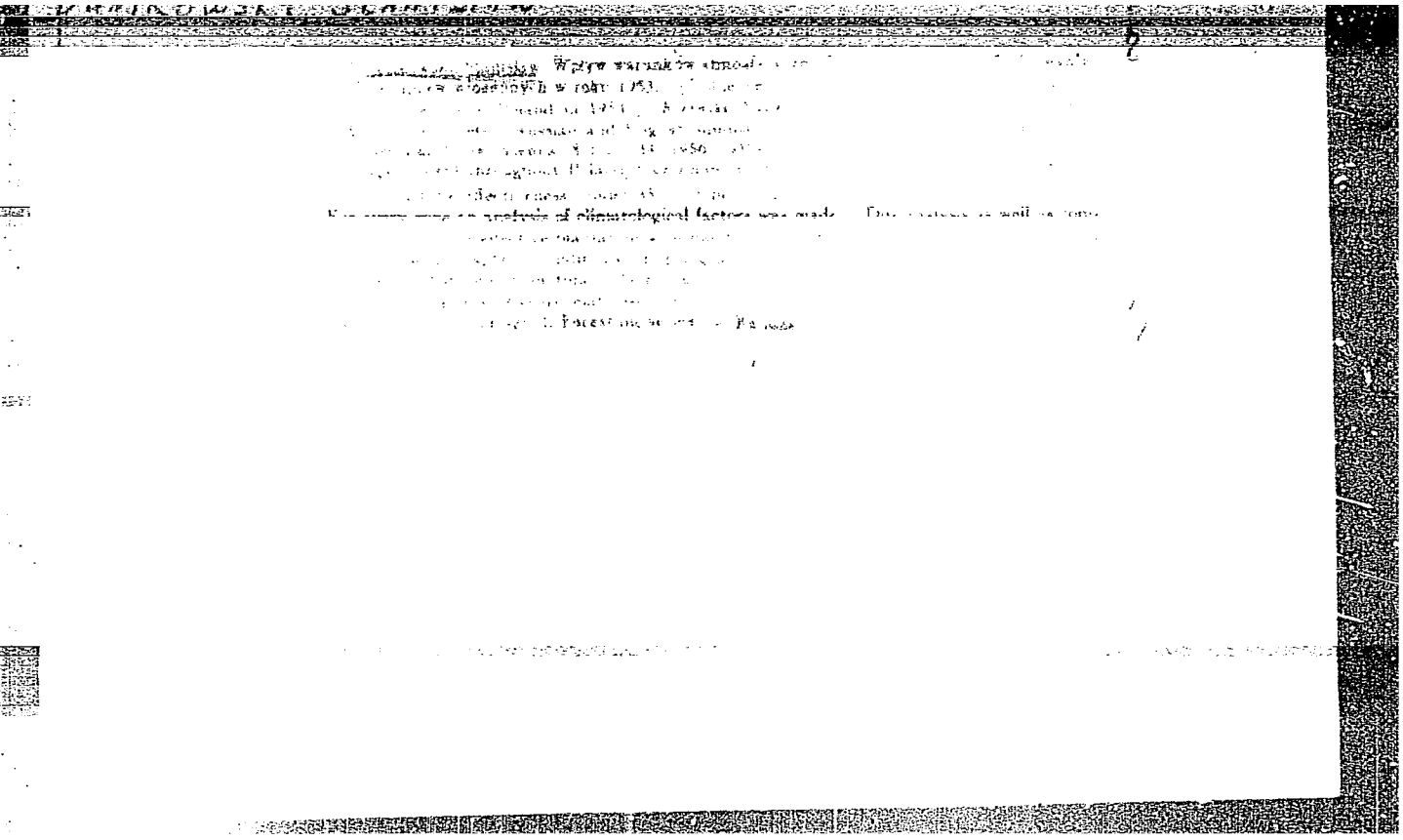
Social changes in the new [illegible]nological revolution.
Przegl techn. no.30; [illegible] '62 .

DUNIKOWSKI, Boleslaw, dr.

Engineering and humanities. Horyz techn 15 no.7:18-19 '62.

DUNIKOWSKI, KAZIMIERZ

Steam oxidizing in the underground coal gasification practice. Kazimierz Dunikowski. *Przegląd Górniczy* 9 (40), 107–11 (1953).—A method has been worked out for calcg. the ratio of H_2O vapor to other oxidizing gases. The method takes into consideration the proper temp. range necessary for successful gasification. The [illegible] between the conditions of gasification in underground [illegible] and surface processes are explained. The optimum operating temps. are indicated for each type of process. The [illegible] calcns. hold true for all practical purposes in the [illegible] "surface" process. In case of the underground [illegible] the use of steam in conjunction with coal [illegible] recommended. When pure O_2 is used instead [illegible] H_2O vapor/O_2 is 1.3/1 (according to the calcn. [illegible] calcns. are given.



DUNIKOWSKI, S.

Research on courses of extreme air temperatures in the Great Poland National Park. p. 293.
(ROCZNIKI NAUK LESNYCH. Vol. 14, 1956, Poland)

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

DUNIKOWSKI, St.

The First Scientific Session of the Committee of Silviculture of the Polish Academy of Sciences discussing the problem of regeneration of the Bialowieza Forest; Bialowiez, October 15-18, 1958. Sylwan 104 no.4:73-78 Ap '60.

DUNILLOWICZ, Witold

A-B-C; classification of produced machines. Przegl techn 86 no.2:3,15 10 Ja '65.

DUNIEWICZ, Witold

Limits in planning. Przegl techn 86 no.5:1, 2 31 Ja '65.

DUNILLOWICZ, Witold

More about the 9th conference of economists in Wisla. Przegl techn 86 no.22:3 '65.

DUNILLOWICZ, Witold

Economic coordination in industry. Przegl techn 86 no.21:3,4 23 My '65.

USSR/Soil Science. Soil Genesis and Geography J-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91368

Author : Dunimalyan M.S.
Inst : AS Armenian SSR
Title : Characteristics of Humus-Carbonate Forest Soils under Yew Trees in Dilizhanskir Rayon

Orig Pub : Izv. AN ArmSSR. Biol. i s.-kh. n., 1957, 10, No 3, 43-49

Abstract : The humus-carbonate forest soils under plantations of yew in the neighborhood of Dilizhan (Armenia) are distinguished by their thinness, intense skeletal nature, heavy loamy mechanical composition, small quantity of lime in the humus horizons. The soils are saturated with alkaline-earth bases that depend on the soil formation in limestone strata. The total chemical composition of the soils shows extremely weak migrations of sesquioxides to the humus horizons.

Card : 1/1

GORBACHEV, S.V.; DUNIN, A.I.

Effect of the flow rate on the process of electrolysis. Zhur. fiz. khim. 35 no.3:697-698 Mr '61. (MIRA 14:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.
(Electrolysis)

GORBACHEV, S.V.; DUNIN, A.I.

Effect of the viscosity of water-glycerol solutions on the electrochemical kinetics of ferri-ferrocyanides. Zhur. fiz. khim. 35 no.5:1019-1025 My '61. (MIRA 16:7)

1. Khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva, Moskva.

(Ferrocyanides) (Electrochemistry)
(Glycerol)

DUNIN, M., prof.

In memory of Isak Grigor'evich Beilin, 1883-1965. Zashch. rast. ot vred. i bol. 10 no.7:63 '65. (MIRA 18:10)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im. K.A. Timiryazeva.

DUNIN, M.S.

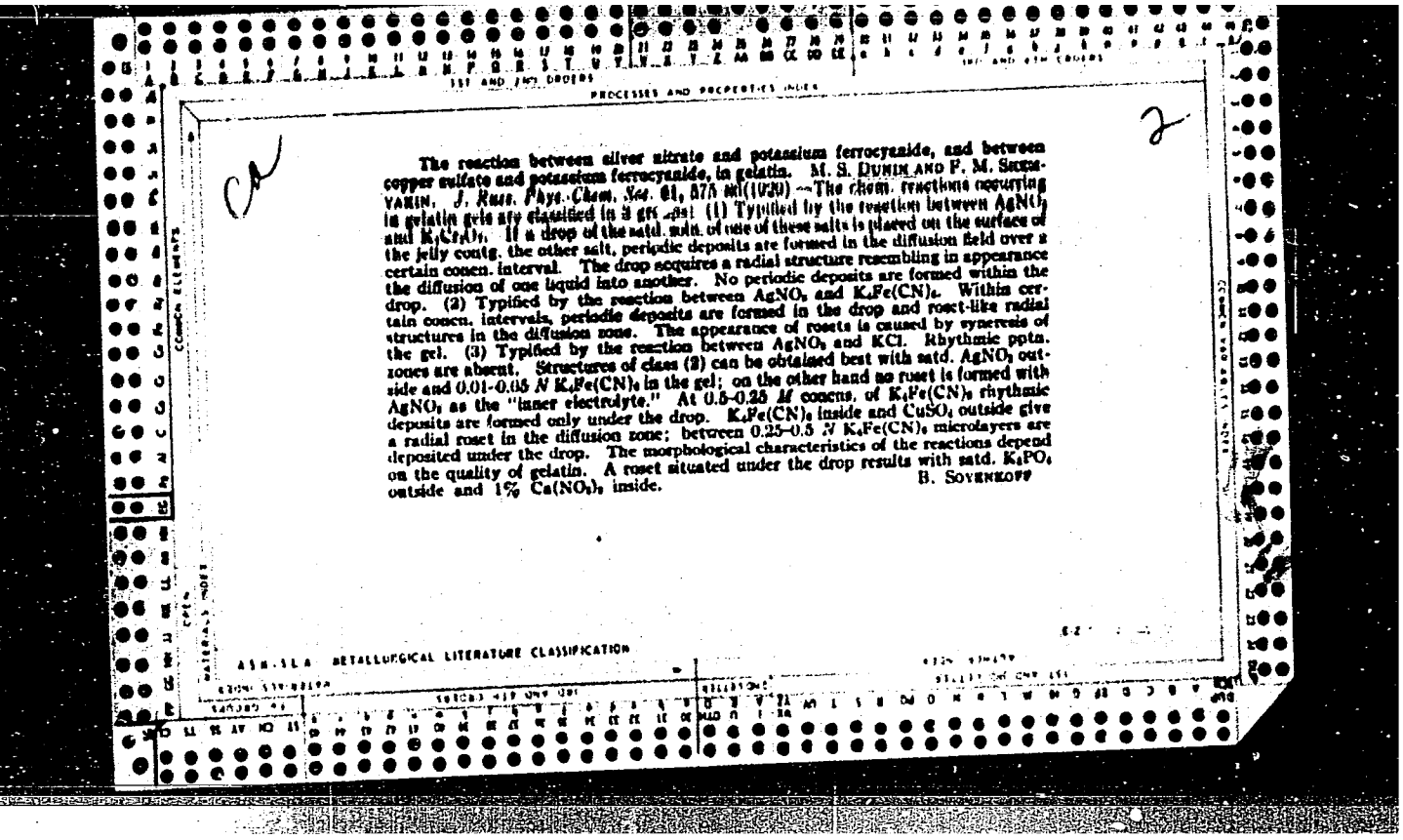
Mikhail Stepanovich Voronin; on the 125th anniversary of his birth. Trudy VIZR no.23:5-18 '64.

(MIRA 19:2)

DUNIN, M. S.

DUNIN, M. S., NAZAROVA, E. S., and FEIGINSON, N. I. Diseases of Kenaf (Hibiscus cannabinus L.), Publishing House "New Country", Moscow, 1928, 105 pp. 464.04 D92B

SO: SIPA, SI 90-53, 15 December 1953



The reaction between silver nitrate and potassium ferrocyanide, and between copper sulfate and potassium ferrocyanide, in gelatin. M. S. DUNIN AND P. M. SAPOZHNIKOV. *J. Russ. Phys.-Chem. Soc.* 61, 875 ml(1929).—The chem. reactions occurring in gelatin gels are classified in 3 groups: (1) Typified by the reaction between $AgNO_3$ and K_2CrO_4. If a drop of the satd. soln. of one of these salts is placed on the surface of the jelly contg. the other salt, periodic deposits are formed in the diffusion field over a certain concn. interval. The drop acquires a radial structure resembling in appearance the diffusion of one liquid into another. No periodic deposits are formed within the drop. (2) Typified by the reaction between $AgNO_3$ and $K_4Fe(CN)_6$. Within certain concn. intervals, periodic deposits are formed in the drop and roset-like radial structures in the diffusion zone. The appearance of rosets is caused by syneresis of the gel. (3) Typified by the reaction between $AgNO_3$ and KCl. Rhythmic ppts. zones are absent. Structures of class (2) can be obtained best with satd. $AgNO_3$ outside and 0.01-0.05 *N* $K_4Fe(CN)_6$ in the gel; on the other hand no roset is formed with $AgNO_3$ as the "inner electrolyte." At 0.5-0.25 *M* concns. of $K_4Fe(CN)_6$ rhythmic deposits are formed only under the drop. $K_4Fe(CN)_6$ inside and $CuSO_4$ outside give a radial roset in the diffusion zone; between 0.25-0.5 *N* $K_4Fe(CN)_6$ microlayers are deposited under the drop. The morphological characteristics of the reactions depend on the quality of gelatin. A roset situated under the drop results with satd. K_3PO_4 outside and 1% $Ca(NO_3)_2$ inside.

B. SOYENKOFF

DUNIN M. S.,

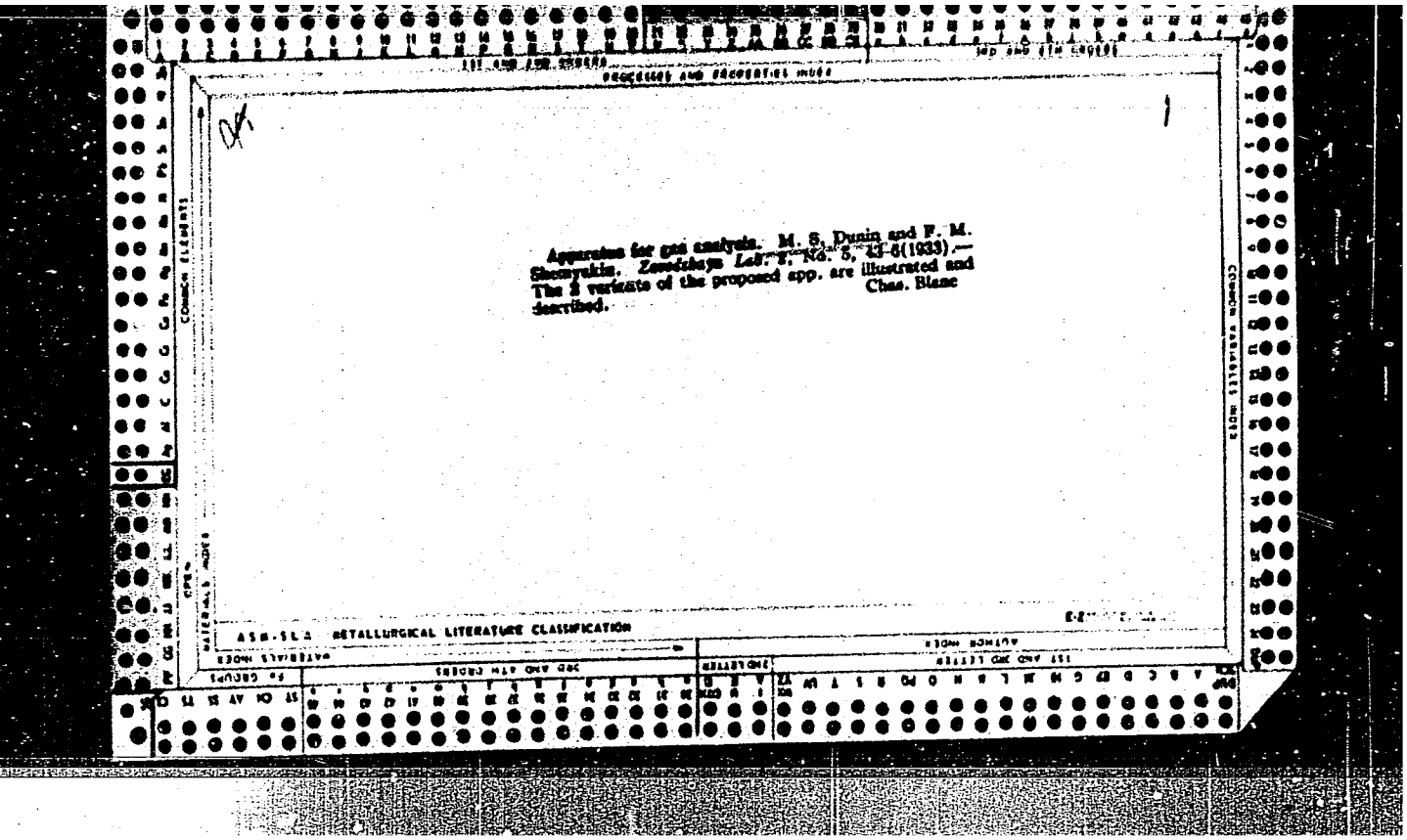
"Sclerotinia of Jerusalem Artichoke," Biulleten'VII Vsesoiuznogo S'ezda po Zashchite Rastenii v Leningrade 15-23 Noiabria 1932 Goda, no. 6, 1932, pp. 14-15. 423.92 V96

So: SIRA-S1-90-53, 15 Dec 1953

DUNIN, M. S.

"Nematode Diseases of Konaf," in Diseases and Pests of New Bast Fiber Crops, Library of the Institute of New Bast Fiber Raw Materials, Moscow, 1933, pp. 109-112. 464.04 M85

So: SIRA- S1-90-53, 15 Dec 1953



Apparatus for gas analysis. M. S. Dunin and F. M. Shemyakin. *Zavodskaya Lab.* 2, No. 5, 43-6(1933).—The 2 variants of the proposed app. are illustrated and described. Chas. Blanc

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

AM

DORSINE (M. S.) & YAKIMOVITCH (E. D.). Болезни батата и меры борьбы с ними. [Sweet Potato diseases and their control.] 247 pp., 102 figs., Всесоюзн. Науч.-Исслед. Инст. Сои и Специйкультур [Pan Soviet sci. Res. Inst. Cult. Soy Bean and Spice Crops], Moscow, 1934. [Received July, 1935.]

The attempts which are now being made to spread sweet potato cultivation in the southern and eastern Republics of the Soviet Union have prompted the authors to publish this useful monograph, compiled mainly from foreign sources, summarizing all the informaton up to date on the mote important diseases of the crop. The diseases are subdivided into those that appear during storage of seed material and in the greenhouse, those that only occur in the field, and commercial storage rots of the roots, the morphology, taxonomy, biology, geographical distribution, and control of the causal organisms being fully dealt with.

Observations in 1932 in Poti [Black Sea littoral of the Caucasus] showed the occurrence there of the following parasitic fungi, apparently new to science, which are described with diagnoses in Russian by Klokbryakoff and Dyurinski. *Leptosphaeria batatícola* n.sp., causing brown spots on the leaves, has perithecia up to 130 μ in diameter, with an emergent ostiole; the asci are cylindrical, pedicellate, rounded at the apex, 53 to 65 by 10 to 11 μ, intermixed with paraphyses; the spores are light yellow, cylindrical-fusiform, with pointed ends, 5-septate, and

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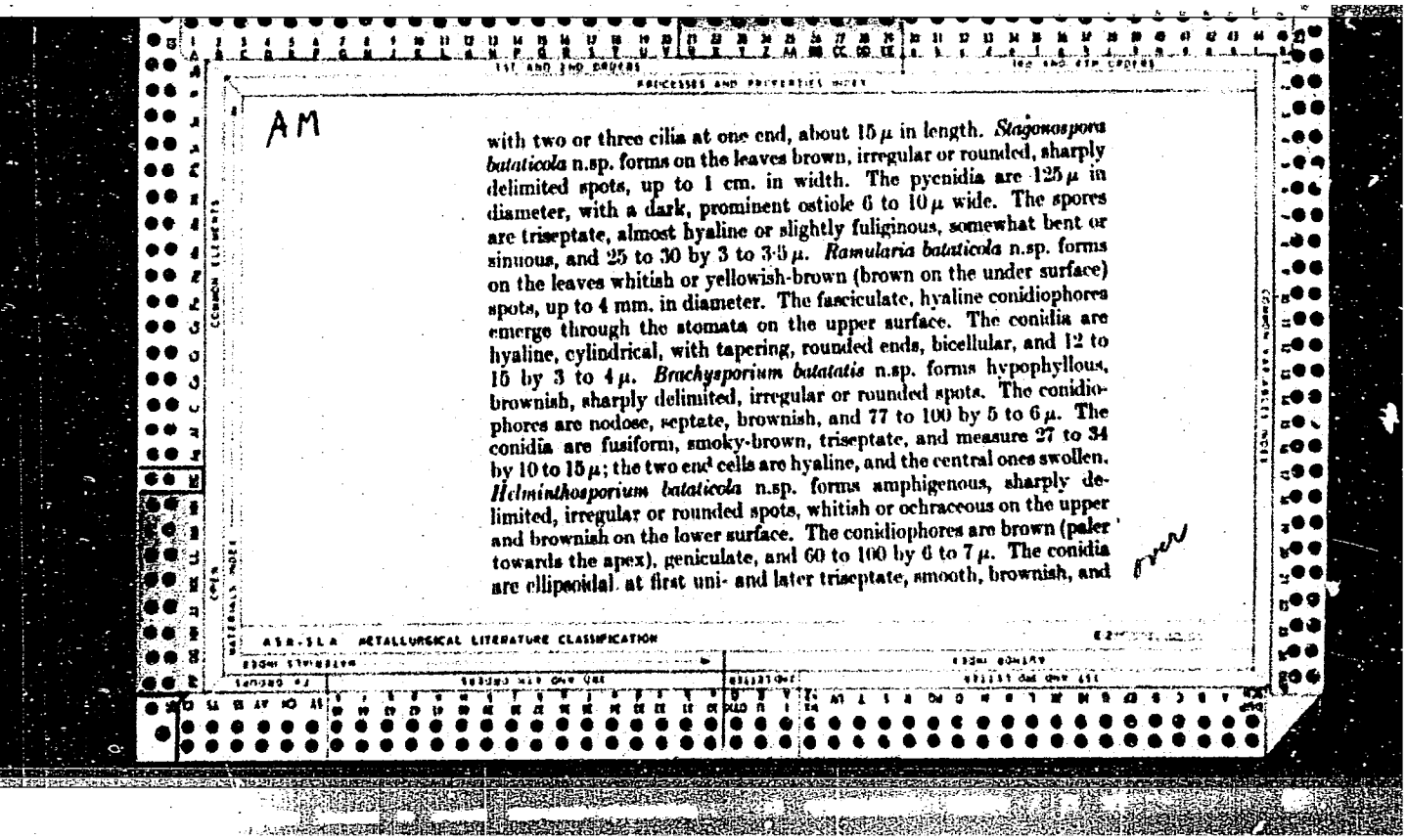
METALLURGICAL LITERATURE CLASSIFICATION

measure 25 to 28 by 1·5 μ. *Leptosphaerulina batatícola* n.sp., forms on the leaves rounded or oblong, brown spots, 1 to 2 cm. in diameter; the perithecia are light coloured, parenchymatous, up to 150 μ in diameter; the asci are broadly ellipsoidal, ovate or piriform, and 55 to 63 by 31 to 35 μ, and the ascospores are light brown, elliptical, slightly constricted at the septa, with three (more rarely four) transverse and one longitudinal septa, and measure 23 to [illegible] by 12 to 14 μ. *Coniothyrium* [illegible] n.sp. forms on the leaves irregular, [illegible] involving a large portion of the blade, which frequently drop out, [illegible] The pycnidia are fairly numerous, [illegible] and 9 to 12 by [illegible] diameter. The spores are brown, ellipsoidal [illegible]

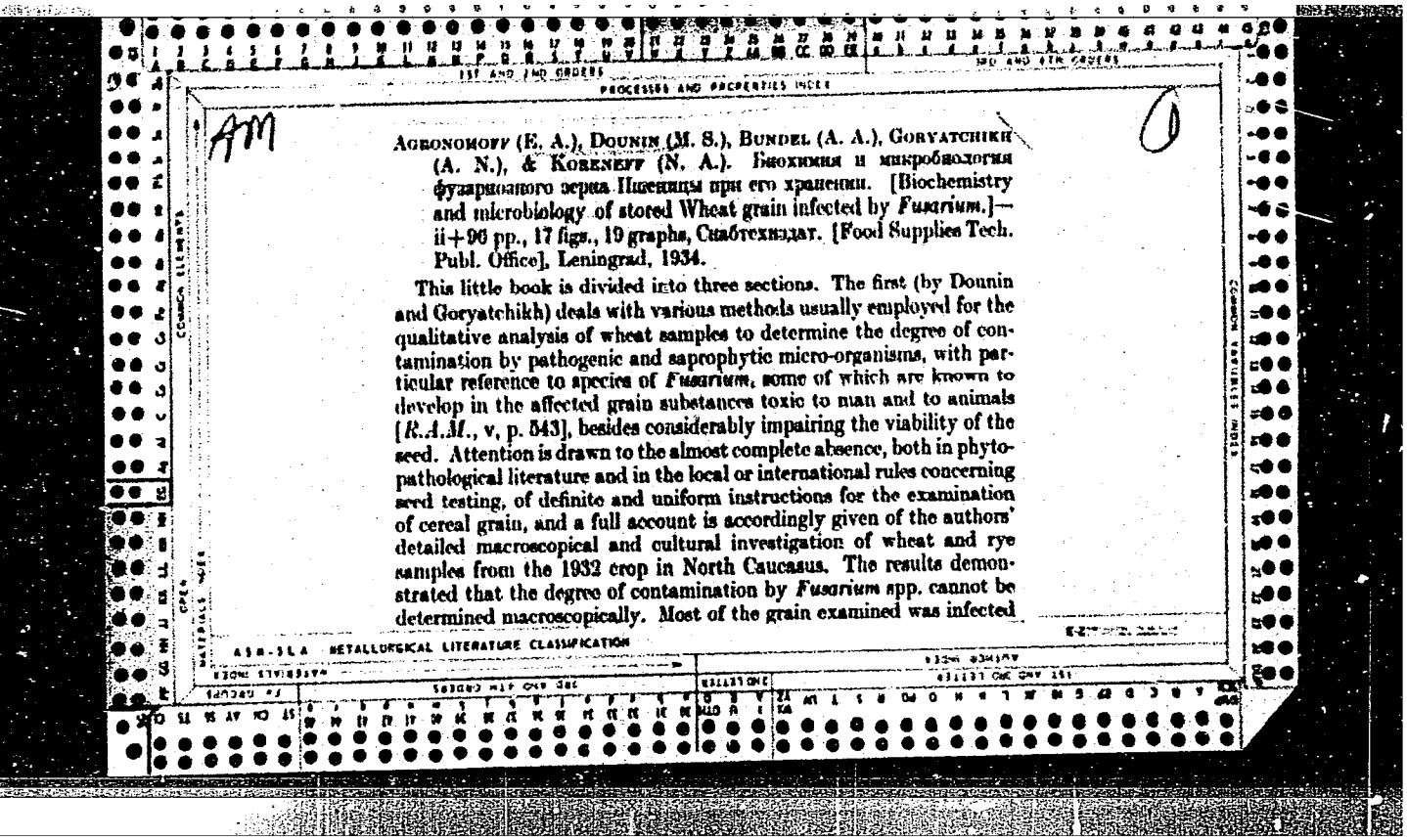
Ascochyta batatícola n.sp. forms on the leaves amphigenous, whitish or ochraceous, irregular, rounded or oblong spots, measuring 2 to 8 mm. in diameter. The pycnidia are chiefly epiphyllous, parenchymatous, and 210 μ in diameter. The spores are cylindrical or slightly fusiform, uni- (more rarely bi-) septate, and 10 to 16 by 2 to 4·5 μ. *Robillardia batatícola* n.sp. forms on the leaves dark-brown, irregular or rounded spots, up to 1 cm. in diameter, and concentrically zonate with a light-coloured centre; the infected tissues drop out, thus destroying a large part of the lamina. The pycnidia are fairly numerous, epiphyllous, paraplectenchymatous, up to 155 μ in diameter, with a slightly prominent ostiole. The spores are cylindrical or fusiform-ellipsoidal, slightly pointed at the ends, almost hyaline or faintly olive-brown (brown in mass), straight, slightly bent, or inequilateral, 11 to 15 by 3 to 4 μ,



with two or three cilia at one end, about 15 μ in length. *Stagonospora bataticola* n.sp. forms on the leaves brown, irregular or rounded, sharply delimited spots, up to 1 cm. in width. The pycnidia are 125 μ in diameter, with a dark, prominent ostiole 6 to 10 μ wide. The spores are triseptate, almost hyaline or slightly fuliginous, somewhat bent or sinuous, and 25 to 30 by 3 to 3·5 μ. *Ramularia bataticola* n.sp. forms on the leaves whitish or yellowish-brown (brown on the under surface) spots, up to 4 mm. in diameter. The fasciculate, hyaline conidiophores emerge through the stomata on the upper surface. The conidia are hyaline, cylindrical, with tapering, rounded ends, bicellular, and 12 to 15 by 3 to 4 μ. *Brachysporium batatatis* n.sp. forms hypophyllous, brownish, sharply delimited, irregular or rounded spots. The conidiophores are nodose, septate, brownish, and 77 to 100 by 5 to 6 μ. The conidia are fusiform, smoky-brown, triseptate, and measure 27 to 34 by 10 to 15 μ; the two end cells are hyaline, and the central ones swollen. *Helminthosporium bataticola* n.sp. forms amphigenous, sharply delimited, irregular or rounded spots, whitish or ochraceous on the upper and brownish on the lower surface. The conidiophores are brown (paler towards the apex), geniculate, and 60 to 100 by 6 to 7 μ. The conidia are ellipsoidal, at first uni- and later triseptate, smooth, brownish, and

35 to 42 by 10 to 13 μ. *Ascochyta batatae* n.sp. forms on the leaves brownish, rounded or irregular spots up to 5 mm. in diameter. The pycnidia are 140 μ in diameter. The spores are oval, cylindrical, or occasionally slightly fusiform, at first continuous but later bicellular, and 6 to 10 by 3 μ. *Mycosphaerella bataticola* Khokhr. & Dyur. is regarded as a synonym of *M. ipomoeae*.

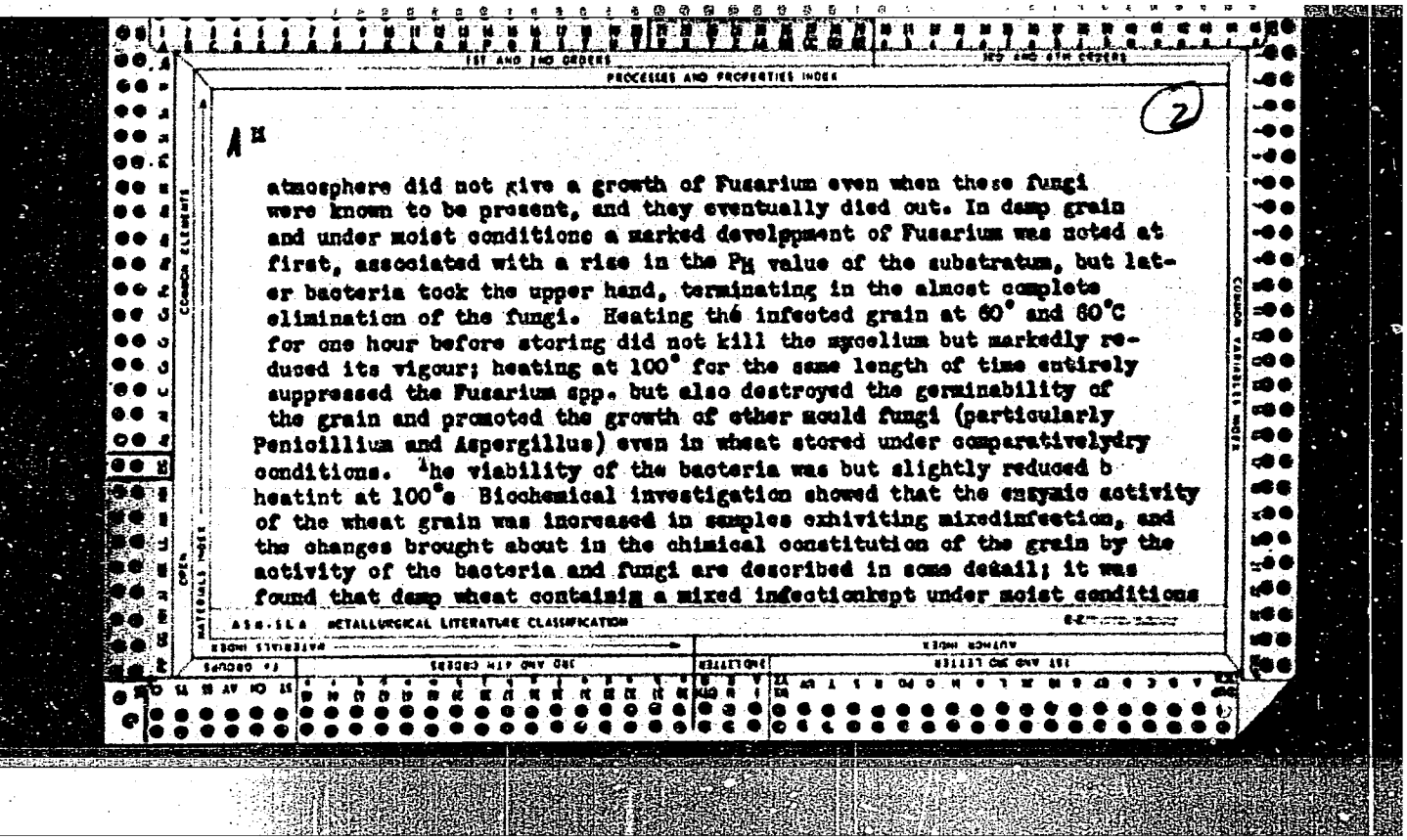
The bibliography appended comprises 357 titles.



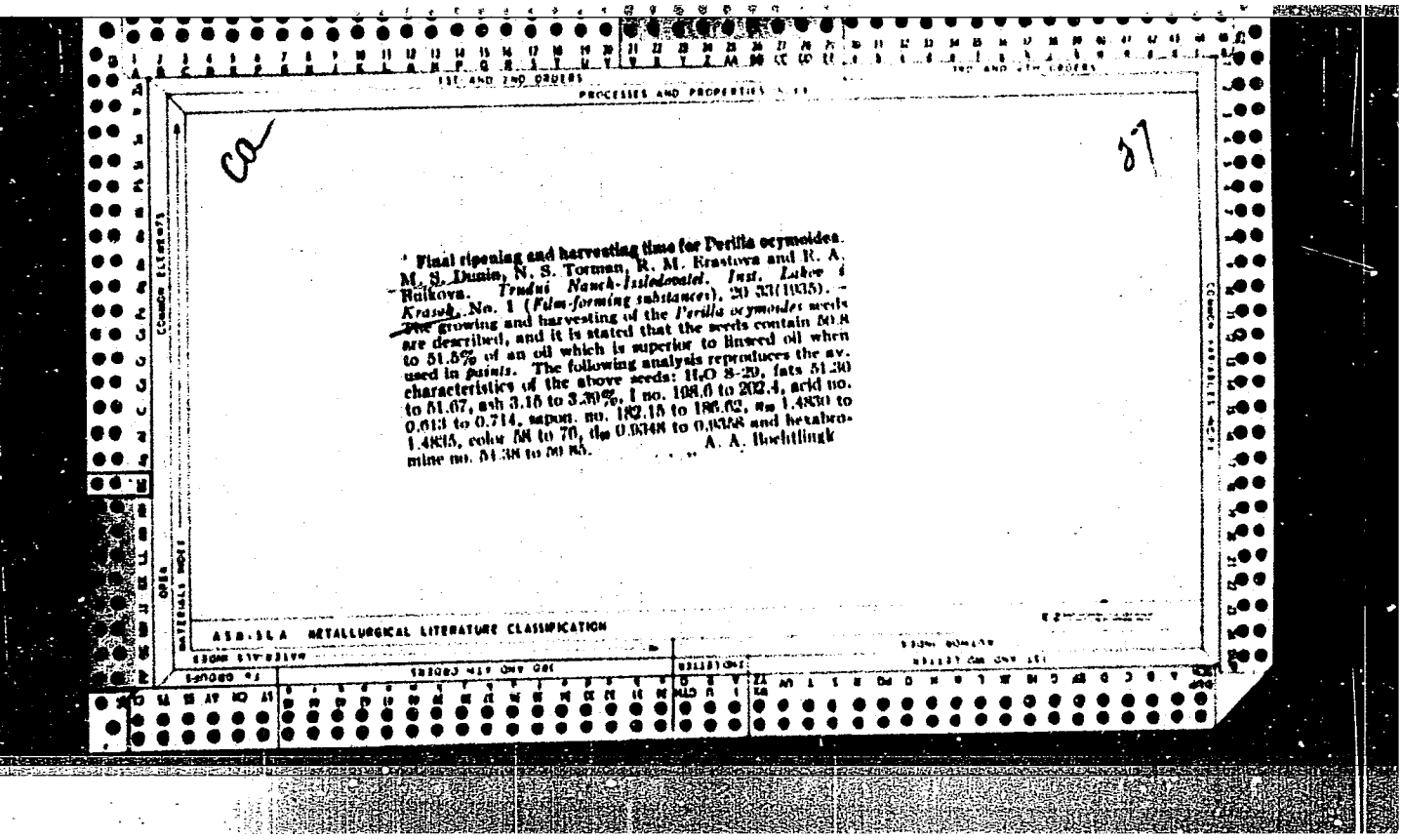
AM

Agronomoff (E. A.), Dounin (M. S.), Bundel (A. A.), Goryatchikh (A. N.), & Koreneff (N. A.). Биохимия и микробиология фузаризного зерна Пшеницы при его хранении. [Biochemistry and microbiology of stored Wheat grain infected by *Fusarium*.]—ii+96 pp., 17 figs., 19 graphs, Снабтехиздат. [Food Supplies Tech. Publ. Office], Leningrad, 1934.

This little book is divided into three sections. The first (by Dounin and Goryatchikh) deals with various methods usually employed for the qualitative analysis of wheat samples to determine the degree of contamination by pathogenic and saprophytic micro-organisms, with particular reference to species of *Fusarium*, some of which are known to develop in the affected grain substances toxic to man and to animals [*R.A.M.*, v, p. 543], besides considerably impairing the viability of the seed. Attention is drawn to the almost complete absence, both in phytopathological literature and in the local or international rules concerning seed testing, of definite and uniform instructions for the examination of cereal grain, and a full account is accordingly given of the authors' detailed macroscopical and cultural investigation of wheat and rye samples from the 1932 crop in North Caucasus. The results demonstrated that the degree of contamination by *Fusarium* spp. cannot be determined macroscopically. Most of the grain examined was infected



atmosphere did not give a growth of Fusarium even when these fungi were known to be present, and they eventually died out. In damp grain and under moist conditions a marked development of Fusarium was noted at first, associated with a rise in the P_H value of the substratum, but later bacteria took the upper hand, terminating in the almost complete elimination of the fungi. Heating the infected grain at 60° and 80°C for one hour before storing did not kill the mycelium but markedly reduced its vigour; heating at 100° for the same length of time entirely suppressed the Fusarium spp. but also destroyed the germinability of the grain and promoted the growth of other mould fungi (particularly Penicillium and Aspergillus) even in wheat stored under comparatively dry conditions. The viability of the bacteria was but slightly reduced b heatint at 100°. Biochemical investigation showed that the enzyme activity of the wheat grain was increased in samples exhiviting mixedinfection, and the changes brought about in the chimical constitution of the grain by the activity of the bacteria and fungi are described in some detail; it was found that damp wheat containig a mixed infectionkept under moist conditions



Final ripening and harvesting time for Perilla ocymoides. M. S. Dunin, N. S. Torman, R. M. Krastova and R. A. Rulkova. *Trudui Nauch-Issledovatel. Inst. Lakov i Krasok*, No. 1 (*Film-forming substances*), 20-33(1935).—The growing and harvesting of the *Perilla ocymoides* seeds are described, and it is stated that the seeds contain 50.8 to 51.5% of an oil which is superior to linseed oil when used in *paints*. The following analysis reproduces the av. characteristics of the above seeds: H_2O 8-29, fats 51.30 to 51.67, ash 3.16 to 3.30%, I no. 198.0 to 202.4, acid no. 0.613 to 0.714, sapon. no. 182.15 to 186.62, n_D 1.4830 to 1.4835, color 58 to 70, d_{20} 0.9348 to 0.9358 and hexabromine no. 54.38 to 59.85. A. A. Boehtlingk

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1ST AND 2ND ORDERS

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3RD AND 4TH ORDERS

Diseases of the Jerusalem artichoke and their control. M. S. Dunige, M. S. Zayanchkovskaya and V. P. Sobolova. *Bull. Pan.- Sov. sci. Res. Inst. for Leguminous Crops* 6, 7-13, 16-150(1936); *Rev. Applied Mycol.* 15, 421-2.—A complete list of all the bacteria (5) and fungi (32) recorded on this host is given. Control measures against all the diseases are discussed at length. There are 152 references.

Oden E. Sheppard

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION