OVCHINNIKOV, N.M., prof.

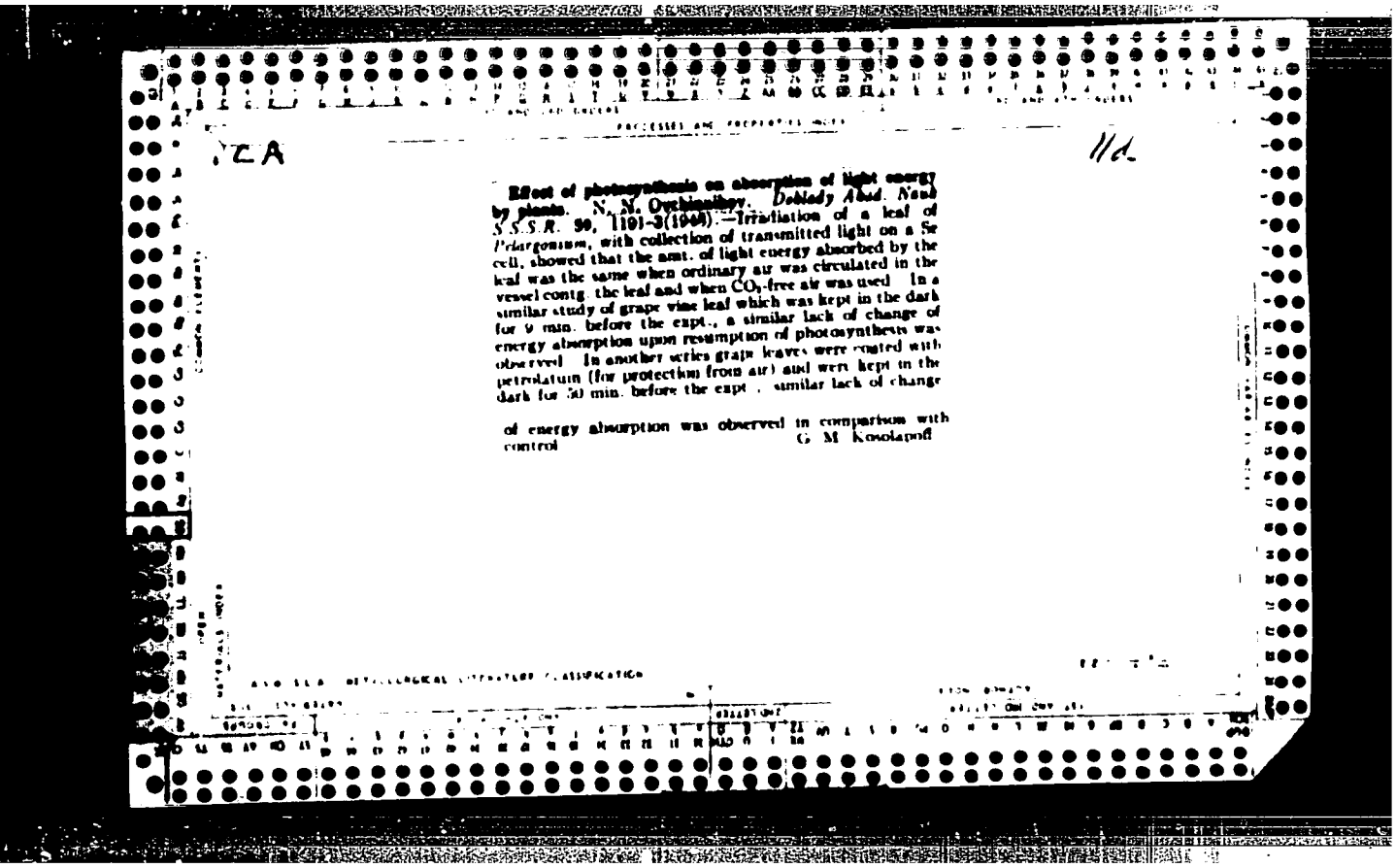
Immunofluorescence method in the diagnosis of gonorrhea. Vest. derm. i ven. 38 no.9:53-59 S '64. (MIRA 18:1)

1. TSentral'nyy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (dir. - kand.med.nauk N.M.Turanov) Ministerstva zdravookhraneniya SSSR, Moskva.

CA

11A

The nature of catalase in seed plants. S. N. Ovchinnikov. *Biokhimiya* 6, No. 4-5, 461 ([illegible] summary). There is no direct relation between the phylogenetic age of a plant and the effectiveness of its catalase. Lyocatalase and desmocatalase are qualitatively identical. This is because they lower the activation energy of a reaction which they catalyze to the same extent. M. Hosch

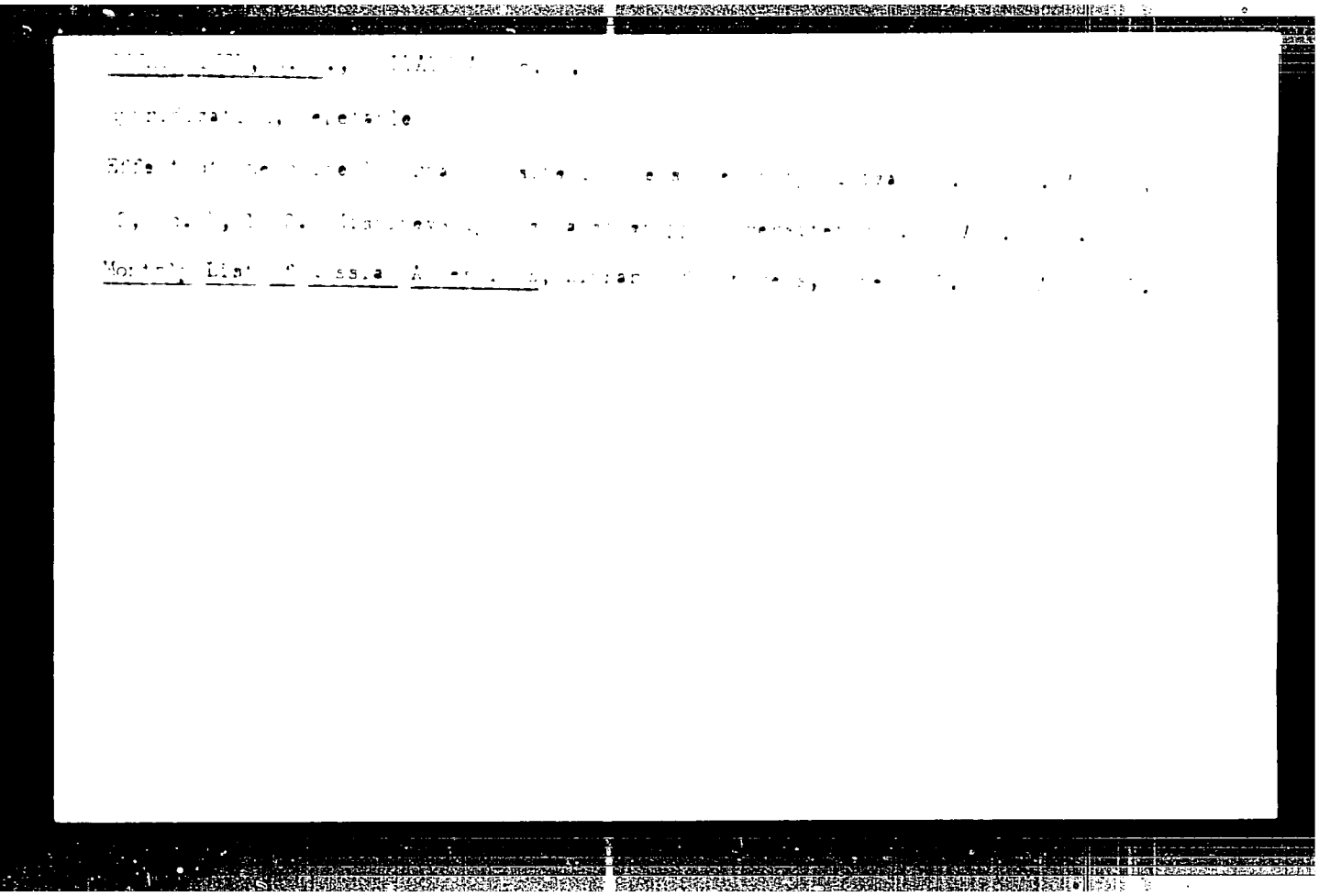


CA

11d

Effect of photosynthesis on absorption of light energy by plants. N. N. Ovchinnikov. *Doklady Akad. Nauk S.S.S.R.* 50, 1101-3(1945).—Irradiation of a leaf of *Pelargonium*, with collection of transmitted light on a Se cell, showed that the amt. of light energy absorbed by the leaf was the same when ordinary air was circulated in the vessel contg. the leaf and when CO_2-free air was used. In a similar study of grape vine leaf which was kept in the dark for 9 min. before the expt., a similar lack of change of energy absorption upon resumption of photosynthesis was observed. In another series grape leaves were coated with petrolatum (for protection from air) and were kept in the dark for 30 min. before the expt. A similar lack of change of energy absorption was observed in comparison with control. G. M. Kosolapoff

Effect of loosely bound water on the activity of catalase. N. N. Oychinnikov (Kishinev Univ., Bessarabia, U.S.S.R.). *Biokhimiya* 16, 208–9(1951).—The loosely bound water of a colloid is readily removed by alc., glycerol, sugars, etc., (Neiman and Neiman, *C.A.* 32, 8236[9]). Substances are less sol. in the loosely bound water envelope surrounding an enzyme than in ordinary water; hence, if the envelope is destroyed by osmotic power, the activity of the enzyme should increase. A 0.3% glycerol ext. of pumpkin seeds showed a 20% greater catalase activity than a similar ext. not contg. glycerol, but having the same viscosity (0.17% gelatin). In the absence of glycerol or gelatin, the ext. possessed even greater catalase activity. The viscosity of a soln. influences catalase activity, in the reverse direction, much more than does the destruction of the layer of loosely bound water by osmotic power. H. Priestley



CVCHENTKOV, N. M.

Growth (Plants)

Theory of cyclical aging and rejuvenation of plants. Sel. Biol., 1, No. , 1

9. Monthly List of Russian Accessions, Library of Congress, June 19[illegible]. Incl.

1. CVICHINSKOV, N. N.; [illegible]

2. USSR (600)

4. Rice

7. Heterogeneous pollen within a rice cluster, Dokl. AN SSSR [illegible], No. [illegible], 19[illegible].

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

OVCHINNIKOV, N. N.

USSR/Biology - Plant physiology

Card 1/1 Pub. 22 - 34/40

Authors : Ovchinnikov, N. N. and Shikhanova, N. M.

Title : Genetic variety of pollen formed in different parts of the plant

Periodical : Dok. AN SSSR 99/3, 463-465, Nov 21, 1954

Abstract : It was established that the spermin of a large pollen formed in the first blossoms in the middle part of the plant have greater life-activity and fertility than the spermin in the first blossoms in lower and upper parts of the plant. The effect of pollen sizes on the fertility of spermins and their ability to assimilate the ovicells is discussed. Three USSR references (1951 and 1952). Tables.

Institution: The Hydrometeorological Institute, Odessa

Presented by: Academician A. L. Kursanov, September 16, 1954

OVCHINNIKOV, N. N. Doc Biol Sci -- (diss) "Qualitative differences in cells and tissues of ~~grain plants~~ cultivated plants." Mos, 1957. 35 pp 20 cm. (Mos Order of Lenin State Un im M. V. Lomonosov), 110 copies. (KL, 13-57, 98)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Biological difference in qualities of kernels developed in various parts of the wheat ear. Trudy OOMI no.11:41-58 '57. (MIRA 11:3)
(Wheat)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Obtaining biologically high-quality seeds. Trudy OOMI no.11:59-69 '57. (MIRA 11:3)
(Seed industry and trade) (Wheat)

USSR/Physiology of Plants. General Problems. I-1

Abs Jour: Ref. Zhur-Biologiya, No 1, 1958, 1104

upon the supply of nutritive matter and upon the place where the pericarps are formed. Any direct connection between the weight of the external and internal flower membranes and the weight of the pericarps were not discovered. The project was completed in the Odessa Hydrometeorological Institute. Bibliography of ten titles.

Card : 2/2

[illegible] : USSR

[illegible] : [illegible] Plants. Cereals. M

[illegible] : [illegible], [illegible], 1958, No. [illegible]

[illegible] : [illegible], [illegible], Shikhanova, N. M.

[illegible] : Odessa Hydrometeorological Institute

[illegible] : Differences in the Biological Properties of Kernels Formed in Different Parts of Wheat Spike

[illegible] : Tr. Odessk. gidrometeorol. instituta, 1957, vyp. 11, 41-53

[illegible] : The character of the growth of the aerial and subsurface mass of the plants grown from seeds formed in different parts of the spike was studied on the experimental plot of Odessa Hydrometeorological Institute. From the largest kernels from the middle part of the spike develop plants with a more vigorous root system, deeply embedded tiller nodes, predominance of the second type of tillering, with the highest amount of rootlets, leaves and shoots, with a higher percentage of the survival of plants, with tall productive tillers, higher yield and absolute weight of the

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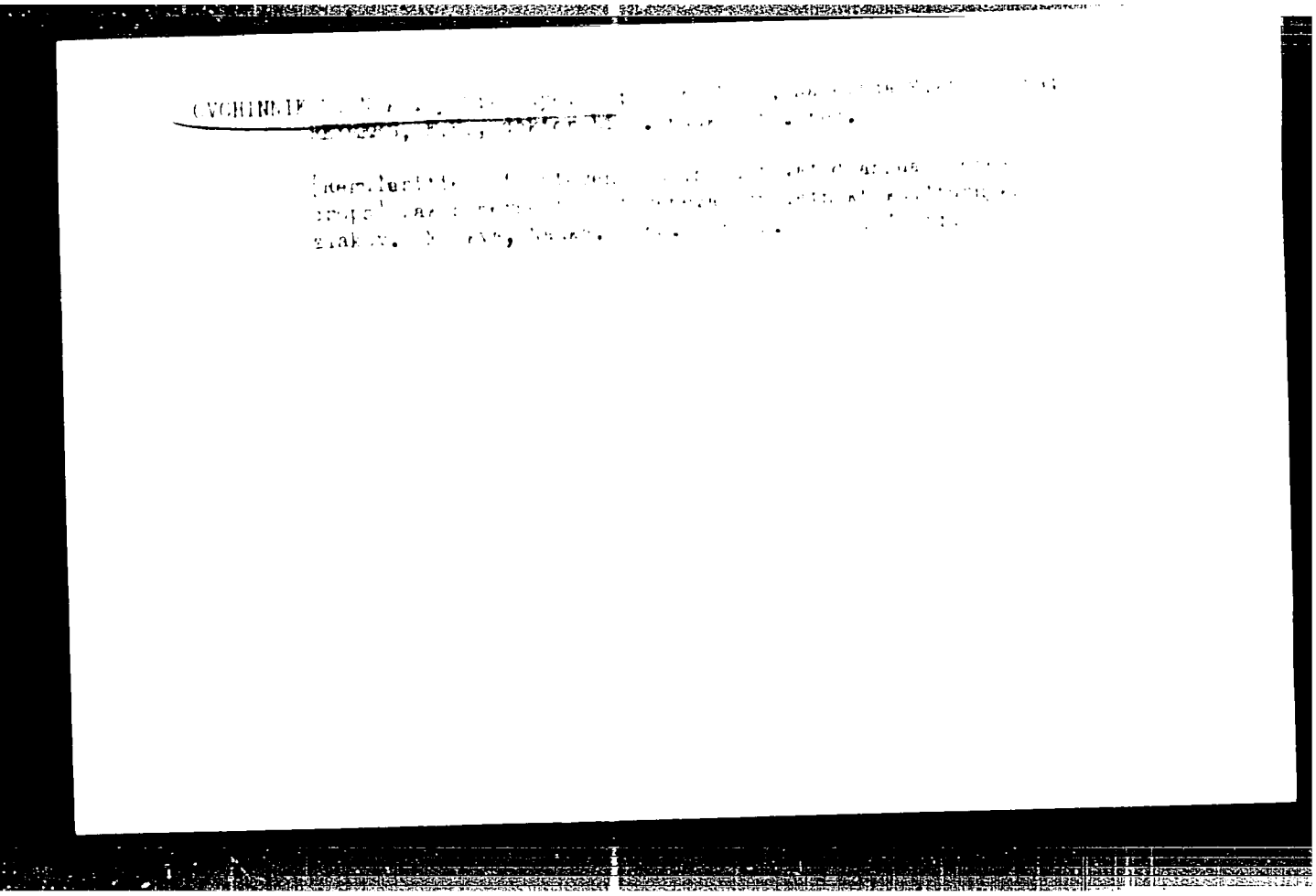

OVCHINNIKOV, N.N., SHICHANOVA, N.M.

Change in water content in leaves and internodes in the ontogeny of wheat, oat and barley. Nauch.dokl.vys.shkoly; biol.nauki no.3:134-139 '58. (MIRA 18:8)

1. Rekomendovana kafedroy fiziologii rasteniy Odesskogo sel'skokhozyaystvennogo instituta i Vostochno-Sibirskim biologicheskim institutom Sibirskogo otdeleniya AN SSSR.

OVCHINNIKOV, N.N. [Ovchynnykov, M.M.]; NIKOLAYEVSKIY, V.G. [Nikolaievs'kyi, V.H.]

Changes in the anatomic structure of corn roots depending on the place of their formation on plant. Ukr.bot.zhur. 18 no.6:16-23 '61. (MIRA 15:3)

1. Odesskiy sel'skokhozyaystvennyy institut, kafedra fiziologii rasteniy.
(Roots (Botany)) (Corn (Maize))

OVCHINNIKOV, N.N., prof.; SUCHKOVA, A.V.; BELOVA, S.I.

Prediction of the appearance of leaves on corn. Trudy OGMI no.25:45-48 '61. (MIRA 16:1)

(Corn (Maize)) (Leaves)

OVCHINNIKOV, N.N., prof.; SUCHKOVA, A.V.; NIKOLAYEVSKIY, V.G.

Prediction of the beginning of the stages of the formation of the reproductive organs of corn Odesskaya 27. Trudy OGMI no.2[illegible] 41-44 '61. (MIRA 1[illegible])

(Corn (Maize)) (Plants--Reproduction)

OVCHINNIKOV, N.N.; NIKOLAYEVSKIY, V.G.

Relation between stages of the organogenesis of inflorescences and leaf and root growth in corn. Trudy OGNI no.22:29-33 '60. (MIRA 14:10)

(Corn (Maize)) (Growth (Plants))

OVCHINNIKOV, N.N.[Ovchynnykov, M.M.]; SHIKHANOVA, N.M.[Shykhanova, N.M.]

Heteronomy of organs, tissues, and cells in the plant organism
Ukr. bot. zhur. 18 no.1:19-27 '61. (MIRA 14:3)

1. Odesskiy sel'skokhozyaystvennyy institut.
(Plant physiology)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Heterogeneity of seed buds and egg cells developing in different parts of the wheat ear. Trudy OGMI no.18:17-21 '59. (MIRA 13:5)

(Wheat) (Ovaries (Botany))

OVCHINNIKOV, N.N.

Changes in the amount of pollen grains in the stamen depending on the position of the flower in the wheat and rye ear.
Trudy OGMI no.18:23-27 '59. (MIRA 13:5)
(Wheat) (Rye) (Pollen)

OVCHINNIKOV, N.N.; SHIKHANOVA, L.M.

Relation between the variety in offspring and place of seed formation on hybrid plants of the preceding generation. Trudy OGMI no.16:67-77 '58. (MIRA 12:9)
(Hybridization, Vegetable)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Variations in the size of pollen as related to the size and vigor of the wheat plant. Trudy OGMI no.16:79-84 '58. (MIRA 12:9)
(Wheat) (Pollen)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Effect of seed quality on the improvement of varietal qualities of spring wheat sown in fall. Trudy OGMI no.16:85-90 '58. (MIRA 12:9)

(Wheat) (Seeds)

OVCHINNIKOV, N.N.

"Plant physiology and fundamentals of microbiology" by P.A. Genkel'. Reviewed by N.N.Ovchinnikov. Fiziol.rast. 6 no.2: 251-252 Mr-Ap '59. (MIRA 12:5)
(PLANT PHYSIOLOGY) (MICROBIOLOGY)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Growth characteristics of plants developed from caryopses taken from different parts of the wheat ear. Nauch.dokl.vys.shkoly; biol.nauki no.4:124-128 '58. (MIRA 11:12)

1. Rekomendovana kafedroy rasteniyevodstva i pochvovedeniya Odesskogo gidrometeorologicheskogo instituta.
(Wheat)

OVCHINNIKOV, N.N.; SHIKHANOVA, N.M.

Changes in the fertilization ability of flowers as related to their position in the spike. Nauch. dokl. vys. shkoly; biol. nauki no.2: 93-96 '58. (MIRA 11:10)

1. Predstavlena kafedroy rasteniyevodstva i pochvovedeniya Odesskogo gidrometeorologicheskogo instituta.
(Fertilization of plants) (Wheat)

OVCHINNIKOV, N. N.

COUNTRY : USSR
CATEGORY : Plant w. [illegible] Cereals.

ABS. JOUR. : RZhBiol., No. 23, 1958, No. 104597

AUTHOR : Ovchinnikov, N. N., Serafimskiy, V. ..
INST. : [illegible] Hydrometeorological Institute.
TITLE : Nitrogen Content in Grains Formed in Different Parts of Inflorescence.

CPIG. PUB. : Selektsiya i semenovodstvo, 1953, ... 1, 70-71

ABSTRACT : A report on the experiments at [illegible] Hydrometeorological Institute in the study of N content in the grains of winter and rye spikes and corn ears. The N content in grains ... also the percentage content of total ... and raw protein ... vary in relation to the place of the formation of grains within the area of inflorescence. It was found ... the test amount in winter wheat grains which form in the second flowers of spikelets in the middle part of the spikes. The percentage content of total ... and raw protein increases somewhat from the upper part to the lower. ...

Card: 1/

2

OVCHINNIKOV, N.V.

Fruit culture at the 59th parallel. Priroda 45 no.8:128 Ag '56.
(Molotov Province--Fruit culture) (MLRA 9:9)

OVCHINNIKOV, N.V.

Concentration and distribution of iodine and bromine in subterranean waters of the Azov-Kuban fault. Biul. MOIP. Otd.geol. 34 no.5:159-160 S-O '59. (MIRA 14:6)
(Azov-Kuban region--Water, Underground)
(Iodine)
(Bromine)

OVCHINNIKOV, N.V.

Changes in the chemical composition of underground waters in the Azov-Kuban trough and their iodine and bromine contents. Izv. vys.ucheb.zav.; geol.i razv. 3 no.1:134-138 Ja '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.
(Azov region--Water, Underground--Analysis)
(Kuban--Water, Underground--Analysis)

OVCHINNIKOV, O.

Present status and the future of planning. Grazh. av. [illegible]
10-11 Je '64. (MIRA 17:8)

1. Nachal'nik kafedry ekspluatatsii vozdushnogo transporta Vysshego aviatsionnogo uchilishcha Grazhdanskogo vozdushnogo flota.

OVCHINNIKOV, O.N.

Zhukovskii profile in a uniformly vortex flow of an ideal incompressible fluid. Trudy LPI no.217:37-50 '61. (MIRA 15:3)
(Fluid dynamics)

OVCHINNIKOV, O.N.

Slow flow of a noncompressible viscous fluid about a permeable elliptic shell. Trudy LPI no.230:36-48 '64.
(MIRA 17:6)

OVCHINNIKOV, O.N.

Cascade of cylinders in a simple vortex flow. Trudy LPI no.217:51-64 '61. (MIRA 15:3)
(Cascades (Fluid dynamics))

OVCHINNIKOV, O.N.; SMIRNOV, O.V.

Cascade of profiles in a nonuniform flow. Trudy LPI no.217: 71-80 '61. (MIRA 15:3)

(Cascade (Fluid dynamics))

ACCESSION NR: AT4041809 S/2563/64/000/230/0036/0048

AUTHOR: Ovchinnikov, O. N.

TITLE: Slow flow of an incompressible viscous liquid around a permeable elliptical shell

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy*, no. 230, 1964. Tekhnicheskaya gidromekhanika (Technical hydromechanics), 36-48

TOPIC TAGS: permeable shell, elliptical shell, viscous flow, incompressible liquid flow, hydromechanics, cylindrical shell

ABSTRACT: A solution in the form of the Ozeyen approximation is presented for the problem of the steady state flow of an incompressible viscous liquid around an elliptical shell of uniform permeability. An approximate solution is also given for the flow around a thin cylindrical shell and plate placed perpendicular to the advancing flow, assuming that the permeability is linearly dependent on the resistance. The total flow of the liquid is divided into external flow (in relation to the shell), internal flow and flow through the shell itself. The motion of a liquid in the external and internal regions is described by the Helmholtz equation. The Darcy law is applied to the flow through a shell and the linear law of resistance is expressed by

$$P_i^+ - P_i^- = \rho U_0 v_{n0}, \qquad (1)$$

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This solution is not valid in the case of a cylinder, so that it is transformed by the Fourier series into

$$\Psi = cU_0\left[\operatorname{ch}\xi\cdot\sin\eta + D_0\cdot\eta + \sum_{m=1}^{\infty}\frac{D_m}{m}\cdot e^{-m\xi}\cdot\sin m\eta + \right.$$
$$\left. + \sum_{n=0}^{\infty} a_n\left[\tau_0^{(n)}\cdot\eta + \sum_{m=1}^{\infty}\Phi_m^{(n)}(\xi)\cdot\operatorname{ch}\xi\cdot\frac{\sin m\eta}{m}\right]\right]; \quad (7)$$

The velocity distribution outside the cylinder is then given by

$$v_\xi = \frac{1}{h}\cdot\frac{\partial\Psi}{\partial\eta} = \frac{cU_0}{h}\left[\operatorname{ch}\xi\cdot\cos\eta + D_0 + \sum_{m=1}^{\infty} D_m\cdot e^{-m\xi}\cdot\cos m\eta + \right. \quad (8)$$
$$\left. + \sum_{n=0}^{\infty} a_n\left[\tau_0^{(n)} + \sum_{m=1}^{\infty}\Phi_m^{(n)}(\xi)\operatorname{ch}\xi\cdot\cos m\eta\right]\right]; \quad (9)$$

$$v_\eta = -\frac{1}{h}\cdot\frac{\partial\Psi}{\partial\xi} = -\frac{cU_0}{h}\left[\operatorname{sh}\xi\cdot\sin m\eta - \sum_{m=1}^{\infty} D_m\cdot e^{-m\xi}\cdot\sin m\eta + \right. \quad (10)$$
$$\left. + \sum_{n=0}^{\infty}\sum_{m=1}^{\infty} a_n\cdot\varphi_m^{(n)}(\xi)\cdot\operatorname{sh}\xi\cdot\sin m\eta\right];$$

$$\varphi_m^{(n)}(\xi) = \text{Fek}_n(\xi)\cdot\left(a_{m-1}^{(n)} - a_{m+1}^{(n)} - \frac{ma_m^{(n)}}{h\cdot e\cdot\operatorname{sh}\xi}\right).$$

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ACCESSION NR: AT4041809

and the flow function by

$$+\sum_{n=0}^{\infty}\sum_{m=1}^{\infty} a_n \cdot \mathrm{ch}\,\xi \left[\Phi_m^{(n)}(\xi) + \frac{\mathrm{sh}\,\xi_0}{\mathrm{ch}\,\xi} \cdot e^{m(\xi_0-\xi)} \cdot \varphi_m^{(n)}(\xi_0)\right] \frac{\sin m\eta}{m} \Big\} ; \quad (11)$$

The pressure distribution is determined by

$$\frac{p_\infty - p}{\rho U_0^2} = \frac{c^2}{h^2} \cdot \sum_{m=0}^{\infty} D_m \cdot e^{-m\xi} \cdot \quad (12)$$

For the internal region, the author derives

$$\Delta Z - 2k \frac{\partial Z}{\partial x} = 0; \quad (13)$$

which is solved by the method of separation of variables, giving

$$Z = -U_0 \cdot \sum_{n=1}^{\infty} \beta_n \cdot \mathrm{Se}_n(\xi) \cdot \mathrm{se}_n(\eta) \cdot e^{kc \cdot \mathrm{ch}\,\xi \cdot \cos\eta}, \quad (14)$$

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This relation is transformed by the Fourier sine series and the final form for the solution in the internal region is given by

$$\Psi^+ = U_0 \cdot c^2 \cdot \sum_{n=1}^{\infty} \sum_{m=1}^{\infty} \beta_n \cdot \operatorname{ch} m\xi \cdot |P_m^{(n)}(\xi_c) - Q_m^{(n)}(\xi)| \cdot \sin m\eta; \quad (15)$$

$$v_\xi^+ = \frac{U_0 c^2}{h} \cdot \sum_{n=1}^{\infty} \sum_{m=1}^{\infty} \beta_n \cdot m \cdot \operatorname{ch} m\xi \cdot |P_m^{(n)}(\xi_0) - Q_m^{(n)}(\xi)| \cos m\eta; \quad (16)$$

$$v_\eta^+ = -\frac{U_0 c^2}{h} \cdot \sum_{n=1}^{\infty} \sum_{m=1}^{\infty} \beta_n \cdot m \cdot \operatorname{sh} m\xi \, |P_m^{(n)}(\xi_0) - P_m^{(n)}(\xi)| \sin m\eta; \quad (17)$$

The problem of flow through a shell is treated for the case of a small Reynolds number, a linear law of viscosity and an infinitely thin shell, where the normal components of velocity satisfy the conditions

$$v_\xi^+(\eta, \xi_0) = v_\xi^-(\eta, \xi_0). \quad (18)$$

The solution for the flow function is given by

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$$\Psi^- = U_0 \cdot c\left[(\operatorname{ch}\xi + \operatorname{sh}\xi_0 \cdot e^{\xi-\xi_0}) \cdot \sin\eta + \alpha_0\left[\operatorname{sh}\xi - \operatorname{ch}\xi \cdot \ln\left(\delta \cdot \frac{kc}{4} e^{\xi}\right) - \right.\right.$$

$$\left. - \operatorname{sh}\xi_0 \cdot e^{\xi_0-\xi} \cdot \ln\left(\delta \cdot \frac{k \cdot c}{2} \cdot e^{\xi_0}\right)\right] \sin\eta + \frac{\alpha_1}{2 \cdot kc} \sin 2\eta + \frac{\alpha_0 \cdot kc}{8}\left[\operatorname{sh}^2\xi - \frac{1}{2} - \operatorname{sh} 2\xi \cdot \ln\left(\delta \cdot \frac{kc}{4} e^{\xi}\right) - \right.$$

$$\left.\left. - (2\operatorname{sh}^2\xi_0 + 1) e^{2(\xi_0-\xi)} \cdot \ln\left(\delta \cdot \frac{kc}{2} \cdot e^{\xi_0}\right)\right] \cdot \sin 2\eta\right]; \quad \Psi^+ = \frac{U_0 c^2 \cdot k}{16}\left[\beta_1\left(\frac{3}{2}\operatorname{ch} 2\xi_0 + 1 - \frac{1}{2}\operatorname{ch} 2\xi\right)\operatorname{ch}\xi \cdot \sin\eta \right.$$

$$+ \frac{\beta_1}{12}\left[3\frac{\operatorname{ch}\xi}{\operatorname{ch} 3\xi} - \frac{\operatorname{sh}\xi_0}{\operatorname{sh} 3\xi_0}\right] \cdot \operatorname{ch} 3\xi \cdot \sin 3\eta + \qquad (19)$$

$$\left. + \frac{kc}{8}\left(\beta_1 + \frac{1}{2}\beta_2\right)\left[\frac{\operatorname{ch} 4\xi_0}{\operatorname{sh} 2\xi_0} - \operatorname{sh} 2\xi\right] \cdot \operatorname{ch} 2\xi \cdot \sin 2\eta + \ldots\right].$$

$$\frac{P^- - P_\infty}{\rho U_0^2} = \frac{c^2}{k^2}\left(\frac{\alpha_0}{kc} \cdot \operatorname{ch}\xi \cdot \cos\eta + \left[\frac{\alpha_0}{2} \cdot \operatorname{sh}\xi_0 \cdot e^{\xi_0} \cdot \ln\left(\delta \cdot \frac{ak^2m}{2} \cdot e^{\xi_0}\right)\right.\right.$$

at a pressure distribution given by $\left.\left. - \frac{1}{2}\operatorname{sh}\xi_0 \cdot e^{\xi_0} + \frac{\alpha_1}{k^2c^2}\right] \cdot (\cos 2\eta + e^{-2\eta})\right)$; (21)

$$\frac{P^+ - P_\infty}{\rho U_0^2} = -\frac{\beta_1 \cdot c}{4} \cdot \operatorname{sh}\xi \cdot \cos\eta - (\beta_1 + \beta_2)\frac{kc^2}{32} \cdot \operatorname{ch} 2\xi \cdot \cos 2\eta + \qquad (22)$$

$$+ \frac{kc^2}{16}\beta_1 \frac{\operatorname{sh}\xi_0}{\operatorname{sh} 3\xi_0} \cdot \operatorname{ch} 2\xi \cdot \cos 2\eta.$$

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As an example of the application of this method, the problem of a cylindrical shell and a plate is solved. For the cylindrical shell with the conditions

$$\frac{1}{2}ce^{k} \to r; \quad \frac{1}{2}ce^{k_0} \to a \tag{23}$$

the solution is given by

$$\Psi^- = U_0\left(r + \frac{a^2}{r}\right)\sin\theta - U_0 \cdot a_0\left[r \cdot \ln(\delta kr) - r + \right.$$
$$\left. + \frac{a^2}{r} \cdot \ln(\delta ka)\right]\sin\theta + \frac{a_1 U_0}{2k}\sin 2\theta -$$
$$- U_0\frac{a_0 \cdot k}{4}\left[r^2 \cdot \ln(\delta kr) - \frac{r^2}{2} + \frac{a^4}{r^2} \cdot \ln(\delta ka)\right]\sin 2\theta;$$
$$\frac{P^- - P_\infty}{\rho U_0^2} = \frac{a_0}{k \cdot r}\cos\theta + a_n \cdot \ln(\delta ka) \cdot \frac{a^2}{r^2} \cdot \cos 2\theta -$$
$$- \frac{a^2}{r^2}\cos 2\theta + \frac{a_1}{(kr)^2}\cos 2\theta;$$
$$\Psi^+ = \frac{U_0 \cdot k}{16} \cdot \beta_1(3a^2 - r^2) \cdot r \cdot \sin\theta + \tag{24}$$
$$+ \frac{U_0 k^2}{24}\left(\beta_1 + \frac{1}{2}\beta_2\right) \cdot \left(a^2 - \frac{r^2}{2}\right) \cdot r^2 \cdot \sin 2\theta;$$
$$\frac{P^+ - P_0}{\rho U_0^2} = -\frac{\beta_1}{4} \cdot r \cdot \cos\theta - \frac{k}{16}(\beta_1 + \beta_2) \cdot r^2 \cdot \cos 2\theta;$$

where the coefficients satisfy

$$\frac{p^+ - p^-}{\rho U_0^2} = \frac{\sigma}{U_0 a} \cdot \frac{\partial \Psi}{\partial \theta} ; \quad \frac{\partial \Psi^+}{\partial \theta} = \frac{\partial \Psi^-}{\partial \theta} \quad \text{при } r = a. \tag{25}$$

For a plate placed perpendicular to the advancing flow, the solution is given by

$$\Psi = U_0 c \left(\operatorname{ch} \xi \cdot \sin \eta + a_0 \left[\operatorname{sh} \xi - \operatorname{ch} \xi \cdot \ln \left(\delta \frac{kc}{2} \cdot e^{\xi} \right) \right] \cdot \sin \eta + \right.$$
$$+ \frac{a_1}{2kc} \sin 2\eta + \frac{a_0 kc}{\delta} \left[\operatorname{sh}^2 \xi - \frac{1}{2} - \operatorname{sh} 2\xi \cdot \ln \left(\delta \cdot \frac{kc}{2} \cdot e^{\xi} \right) - \right. \tag{26}$$
$$\left. \left. - \ln \left(\delta \cdot \frac{kc}{2} \right) e^{-2\xi} \right] \cdot \sin 2\eta \right) ; \quad \frac{P - P_\infty}{\rho U_0^2} = \frac{a_0 \cdot c}{k h^2} \cdot \operatorname{ch} \xi \cdot \cos \eta + \frac{a_1}{k^2 h^2} (\cos 2\eta + e^{-2\xi}).$$

where the coefficients satisfy the conditions

$$P(\pi - \eta, 0) - P(\eta, 0) = \frac{\rho U_0 \cdot c \cdot \sigma}{h_0} \cdot v_\xi(\eta, 0) = \frac{\rho U_0 \cdot c \cdot \sigma}{h_0^2} \cdot \frac{\partial \Psi}{\partial \eta}\Big|_{h=0} \tag{27}$$

ACCESSION NR: AT4041809

The pressure resistance coefficients are given by

$$C_{xp} = \frac{2}{\rho U_0^2 c} \cdot \int_0 |P_w - P(0)| \cdot h_0 \cdot d\eta = -\frac{2\pi \cdot a_0}{kc} \quad (27)$$

Orig. art. has: 63 equations.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M.I. Kalinina (Leningrad Polytechnical Institute)

SUBMITTED: 00 ENCL: 00 SUB CODE: ME

NO REF SOV: 005 OTHER: 003

Card 9/9

OVCHINNIKOV, O. N.

Laminar boundary layer on a plate in an inhomogeneous flow. Zhur. tekhn. fiz. 30 no.6:627-638 Je '60. (MIRA 13:8)

1. Leningradskiy politekhnicheskiy institut im. M.I.Kalinina.
(Boundary layer) (Fluid dynamics)

1. 2

80258

S/040/60/024/02/26/0[illegible]

AUTHOR: Svchinnikov, G. N. (Leningrad)

TITLE: Longitudinal Flow Around a Cylinder by an Inhomogeneous Flow for Stationary Exhaust of the Boundary Layer

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No. [illegible] pp 376-378

TEXT: The author considers a heated cylinder with radius a which is flown around in longitudinal direction by an inhomogeneous flow of a viscous incompressible fluid with the v[illegible]

(1.1) $u = u_e + [illegible]$ ($\leq$ [illegible]

whereby the boundary layer, whose thickness is assumed to be constant, is exhausted. Under the assumption of stationary, axialsymmetric behavior of flow and of the independence from the z-coordinate (z-axis $\equiv$ cylinder axis) the author determines in rigid solution the velocity- and temperature field.
There [illegible] figure.

SUBMITTED: November 22, 1[illegible]

Card 1/1

OVCHINNIKOV, O. N. (Leningrad)

"Incompressible, rotational, axisymmetric flow past a body of revolution."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

S/563/61/000/217/002/012
D234/D308

AUTHOR: Ovchinnikov, O. N.

TITLE: Zhukovskiy's profile in a stream of ideal incompressible liquid with uniform vorticity

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy. no. 217. 1961. Tekhnicheskaya gidromekhanika, 37-50

TEXT: The author gives an exact solution of the problem and derives formulas for calculating the pressure distribution along the surface of an arbitrary Zhukovskiy profile and the magnitude of its lifting force. The basic differential equation is solved by the method of conformal representation of the profile on a circle. Influence of the inhomogeneity of the incident stream is discussed in detail. There are 7 figures.

Card 1/1

OVCHINNIKOV, O. N.

3

281. Ovchinnikov, O. N., The influence of the velocity profile at the entry on the working of diffusers (in Russian), *Trudi Leningr. Politekh. in-ta* no. 176; 175-188, 1955; Rev. no. 1518, *Ref. Zh. Mekh.* 1956.

The development is examined of the flow of a viscous fluid or a conical diffusor with an arbitrary, axially symmetrical velocity profile at the entry, on the basis of the same approximation formulas as have been used in the solution of the uniform case of this problem in the book of S. M. Targ ["Fundamental problems of the theory of laminar flows", Moscow-Leningrad, GITTL, 1951]. The results of the numerical calculations are presented in the form of curves for convex, regular, and concave velocity profiles at the entry. The experimental results are given for the case of two diffusors, conical and curvilinear, respectively, at Reynolds' numbers of 250,000 to 280,000. It is noted that the flow pattern in the diffusor agrees well, qualitatively, with the theoretical conclusions, despite the fact that this theory refers to laminar conditions, while the experiments were made in the presence of turbulence.

N. A. Slezkin, USSR

Courtesy of Referativnyi Zhurnal

Translation, courtesy Ministry of Supply, England

RHA

OVCHINNIKOV, O.N.

Initial section in a cylindrical pipe under conditions of swirly flow. Trudy LPI no.198:160-168 '58. (MIRA 12:12)
(Pipe--Hydrodynamics)

10.2160

S/179/60/000/006/003/036
E031/E135

AUTHOR: Ovchinnikov, O.N., (Leningrad)

TITLE: Axi-Symmetric Rotational Flow Round a Solid of Revolution

PERIODICAL: Izvestiya Akademii nauk SSSR,Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, No. 6, pp. 19-23

TEXT: The body is assumed immersed in an ideal incompressible fluid whose mechanical energy is proportional to the stream function ($E = \omega_0 \psi$). The flow is assumed to be steady. The basic differential equation:

$$\frac{\partial}{\partial q_1}\left(\frac{H_2}{H_1 H_3}\frac{\partial \psi}{\partial q_1}\right) + \frac{\partial}{\partial q_2}\left(\frac{H_1}{H_2 H_3}\frac{\partial \psi}{\partial q_2}\right) = + H_1 H_2 H_3 \omega_0 \qquad (1.1)$$

is given in generalised orthogonal curvilinear coordinates, which is specialised as required to particular coordinate systems. The solution is sought in the form of a complementary function and a particular integral (quoted for a cylindrical coordinate system):

Card 1/ 3

88512

S/179/60/000/006/003/036
E031/E135

Axi-Symmetric Rotational Flow Round a Solid of Revolution

$$\psi_o = 1/2\ U\ \zeta^2 + 1/8\ \omega_o\ \zeta^4 \qquad (1.6)$$

The particular integral given corresponds to a velocity distribution far from the body in the form of a paraboloid of revolution. Turning to the determination of the complementary function, the case of a half-body is considered in a spherical coordinate system. The two parts of the solution are put together and an expression for the non-dimensional pressure coefficient at the surface of the body is quoted. The result is applied to a pitot tube with a parabolic velocity distribution. Next the case of an elongated solid of revolution is discussed. The velocity distribution at infinity is in the form of a paraboloid of revolution. An elliptic coordinate system is introduced in the meridian plane of the body. The complementary function is quoted and the stream function as a whole is stated. This result is applied to the analysis of flow round an ellipsoid. By making a suitable passage to the limit, the stream function for a sphere can be obtained. The velocity distribution on the ellipsoid is given and that for a sphere

Card 2/3

88512

S/179/60/000/006/003/036
E031/E135

Axi-Symmetric Rotational Flow Round a Solid of Revolution

deduced from it, by letting the eccentricity tend to zero. The stagnation points for both sphere and ellipsoid are discussed. The behaviour of the flow depends on a parameter k ($k = \omega_o a^2/U$ for the sphere, where a is the radius), or k_e ($k_e = \omega_o b^2/U$ for the ellipsoid, where b is the length of the minor semi-axis).

There are 6 figures and 4 references: 1 Soviet and 3 English.

SUBMITTED: December 15, 1959

Card 3/3

IX

OVCHINNIKOV, O.N. (Leningrad)

Longitudinal heterogeneous flow about a cylinder in the presence of a steady suction of the boundary layer. Prikl. mat. i mekh. 24 no. 2:376-378 Mr-Ap '60. (MIRA 14:5)
(Fluid dynamics)

OVCHINNIKOV, O. N., Cand Phys-Math Sci -- "Certain problems in the hydrodynamics of eddy currents." Len, 1961 (Min of Higher and Sec Spec Ed RSFSR. Len Polytech Inst im M. I. Kalinin) (KL, 8-61, 227)

POLYAKOVA, K.; OVCHINNIKOV, P. (s. Detchino, Kaluzhskoy oblasti).

Combining learning with useful work. Nauka i pered. op. v sel'khoz. 9 no.2:57-61 F '59. (MIRA 12:3)
(Children--Employment)

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SOV/44-59-9-9140

Translation from: Referativnyy zhurnal.Matematika,1959,Nr 9,pp 99-100 (USSR)

AUTHOR: Ovchinnikov,O.N.

TITLE: Initial Part of a Cylindric Tube Under Twisting

PERIODICAL: Tr.Leningr.politekhn.in-ta 1958,Nr 198,160-168

ABSTRACT: The author considers the motion of a tenacious fluid within a circular tube with the radius R, where it is assumed that in the initial intersection there appears a twisting. The radial velocity components and the derivatives in longitudinal direction are neglected. The author establishes the usual system of equations for axialsymmetric flow of a tenacious fluid in the tube; he considers the rotating component of the velocity w. The two other velocity components are expressed by the flow function ψ.

The solution of the system is sought with the hypothesis

$$\psi = \frac{1}{2} r^2 + a(z,r); \quad w = \omega_0 r + b(z,r) ,$$

where it is assumed that the functions a and b are small. The last assumption contradicts those boundary conditions which have to be satisfied by the functions ψ and w. By neglection of terms being small of second order with respect to a and b, one obtains a linear equation which is solved with the aid of the Laplace transformations. V.I.Merkulov

Card 1/1

OVCHINNIKOV, P., inzh.; IL'IN, N., inzh.; ARTIMOVICH, P., inzh.

Automatically controlled pneumatic equipment for unloading grain from garges at the No.4 Milling Combine in Moscow. Muk.-elev. prom. 24 no.10:4-6 O '58. (MIRA 11:12)

1.Gidrologicheskiy institut (GI) Promzernoproyekt.
(Moscow--Grain-handling machinery)
(Pneumatic-tube transportation)

OVCHINNIKOV, P., inzhener; IL'IN, N., inzhener; KASHCHEYEV, I., inzhener.

Central control of operations and remote control of machinery in elevators. Muk.-elev.prom. 20 no.10:4-6 O '54. (MLRA 7:12)

1. Gosudarstvennyy institut Promzernoproyekt (for Kashcheyev, Ovchinnikov & Il'in)
(Grain handling) (Automatic control)

ASTAKHOV, P., inzhener; OVCHINNIKOV, P., inzhener, IL'IN, N., inzhener.
ARTIMOVICH, P., inzhener.

Elevator with automatic control. Mekh.-elev.prom. 23 no.7:4-8 Jl '57.
(MLRA 10:9)

1. Moskovskiy mekhanicheskiy kombinat No. 4 (for Astakhov).
2. Promzernoorgyevskiy [illegible] (for Il'in, Ovchinnikov, Artimovich).
[illegible] elevators) (Ovchinnikov, P., inzhener)

OVCHINNIKOV, P., insh.

Using level indicators in filling bins with grain. Muk. elev. prom. 23 no.12:10 D '57. (MIRA 11:2)

1. Promzernoproyekt.
(Grain elevators--Equipment and supplies)
(Electric instruments)

OVCHINNIKOV, P., inzh.

Automatic weighing (from "Mechanical Handling", XXX vol.44, no.3, 1957). Reviewed by P.Ovchinnikov. Muk.-elev.prom. 24 no.3:30-31 Mr '58. (MIRA 12:9)

(Weighing machines)

LIDIN, Ye.; OVCHINNIKOV, P.

Follow-up to our materials. Muk.-elev. prom. 29 no.12:24 D '63. (MIRA 17:3)

1. Tul'skiy mel'nichnyy kombinat (for Lidin). 2. Gosudarstvennyy proyektnyy institut po proyektirovaniyu predpriyatiy i sooruzheniy zernovoy i makomol'noy promyshlennosti (for Ovchinnikov).

OVCHINNIKOV, P.

Botanical research of Tajikistan. Trudy TFAN SSSR 27:85-138 '51.
(MLRA 6:8)
(Tajikistan--Botany) (Botany--Tajikistan)

MATVEYEV, M.I.; AYNI, S., glavnyy red.; OVCHINNIKOV, P., otv.red.; PROKOF'YEV, A.A., red.; KOTSARENKO, Ye., red.izd-va; PROKOV, P., tekhn.red.

[Gutta-bearing plant eucommia and its cultivation in Tajikistan] Guttonosnoe rastenie evkommiia i ee kul'tura v Tadzhikistane. Stalinabad. Izd-vo AN Tadzh.SSR. 1952. 56 p. (Akademiia nauk Tadzhikskoi SSR, Stalinabad. Trudy, vol.8) (MIRA 12:6)
(Tajikistan--Eucommia)

MATVEYEV, M.I.; AYNI, S., glavnyy redaktor; OVCHINNIKOV, P., otvetstvennyy redaktor; KOTSOREHKO, Ye., redaktor izdatel'stva; [illegible]OV, P., tekhnicheskiy redaktor

[Eucommia; a new, valuable, commercial plant] Evkommiia; novoe tsennoe tekhnicheskoe rastenie. Stalinabad, Izd-vo Akademii nauk Tadzhikskoi SSR, 1952. 23 p. (Nauchno-populiarnaia biblioteka, no.3) (Eucommia) (MLRA 9:8)

OVCHINNIKOV, P.; SONIN, G.

Bank control in financing construction. Den. i kred. 17 no.12:14-19 D '59. (MIRA 12:12)
(Banks and banking) (Construction industry--Finance)

OVCHINNIKOV, P.

Study and teaching in a school-restaurant. Obshchestv.pit. no.5: 51-52 My '60. (MIRA 13:10)

1. Instruktor proizvodstvennogo obucheniya shkoly torgovokulinarnogo uchenichestva, g.Nizhniy Tagil.
(Nizhniy Tagil—Cooking schools)

OVCHINNIKOV, P. A., Doc of Vet Sci — (diss) "Epizootology of the Hemosporidiosis of Horses of Buryat ASSR, and the Measures for Controlling Them," Ulan-Ude, 1959, 36 pp Leiningrad Vetrinary Institute) (KL, 4-60, 122)

1. OVCHINNIKOV, P. A., Docent

2. SSSR (600)

4. Piroplasmosis

7. Therapeutic-prophylactic effect of "hemosporidin" (LP_2) in piroplasmosis in horses. Veterinariia 29 No. 12, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

OVCHINNIKOV, Petr Andreyevich, for Doctor of Veterinary Science on the basis of dissertation defended 17 Dec 59 in Council of the Leningrad Veterinary Institute, entitled: "Epizootology of Hemosporidioses of Horses in the Buryat Mongol ASSR, and the Ways and Methods of Controlling Them." (BMVISSO USSR, 2-61, 25)

OVCHINNIKOV, P. F.

"Integral and Differential Equations of Transverse Vibrations of a Roller Taking Into Account the Displacement and Gyroscopic Moment." Cand Phys-Math Sci, Mathematics Inst, Acad Sci Ukrainian SSR, Min Higher Education USSR, Odessa, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 470, 20 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (1.)

OVCHINNIKOV, P.F.

NUDEL'MAN, Ya.L.; OVCHINNIKOV, P.F.

Bending of beams with variable cross section accounting for shear deformations. Prykl. mekh. 2 no.1:40-50 '56. (MLRA 10:2)

1. Odes'kiy gidrotekhnichniy institut.
(Girders) (Flexure)

OVCHINNIKOV, P.F. (Odessa)

Integral equations for the steady motion of rotating variable cross-section shafts accounting for displacement and gyroscopic moment. Prykl.mekh. 2 no.3:284-296 '56. (MLRA 9:10)
(Shafts and shafting) (Machinery, Kinematics of)

VICHINNIKOV, P.F. (Odessa)

Differential equations of lateral vibrations in a rotating bar of variable cross-section taking into account the shear and gyroscopic moment (with summaries in Russian and English). Prykl.mekh. 3 no.2:147-154 '57. (MLRA 10:6)

1. Odes'kiy politekhnichnyy institut.
(Elastic rods and wires--Vibration)

OVCHINNIK, V. F.

Theory of vibrat
of processed ma

1. Odesskiy Inzhenern

OVCHINNIKOV, P.F. (Odessa)

"Contribution to the theory of vibrational machines with special reference to the influence of the medium subjected to machining"

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

AUTHOR: Ovchinnikov, P.F. (Odessa) SOV/41-10-2-4/13

TITLE: Extremum Properties of the Eigen Values of Integral Equations With Essentially Positive Kernel and Nonmonotone Distribution Function (Ekstremal'nyye svoystva sobstvennykh chisel integral'nykh uravneniy s sushchestvennopolozhitel'nym yadrom i nemonotonnoy funktsiyey raspredeleniya)

PERIODICAL: Ukrainskiy matematicheskiy zhurnal,1958,Vol 10,Nr 2,pp 147-159 (USSR)

ABSTRACT: Let the equation

$$(1) \quad \varphi(x) = \lambda \int_0^1 k(x,s)\varphi(s)d\delta(s)$$

be considered, where $\delta(x)$ is a distribution function of bounded variation and $k(x,s)$ is a bounded, continuous and symmetric kernel; $0 \leqslant x, s \leqslant 1$. Furthermore let $k(x,s)$ be essentially positive, i.e.

$$I(a,a) = \int_0^1 \int_0^1 k(x,s)da(x)da(s) > 0$$

for an arbitrary function $a(x)$ of bounded variation. Let de-

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Extremum Properties of the Eigen Values of Integral Equations With Essentially Positive Kernel and Nonmonotone Distribution Function

SOV/41-10-2-4/13

note

$$I(a, \delta) = \int_0^1 \left[\int_0^1 k(x,s)\,da(s) \right]^2 d\delta(x)$$

and

$$I(a,a, \delta) = \frac{I(a,a)}{I(a, \delta)} .$$

Theorem: If $I(a, \delta) > 0$, then the first positive eigen value λ_1 of (1) is the exact lower bound of $I(a,a, \delta)$. It is attained for a function $a(x)$ for which $da(x) = \varphi_1(x)\,d\delta(x)$, where $\varphi_1(x)$ is the eigenfunction of (1) corresponding to the eigen value λ_1.

Theorem: Let $\lambda_1 \leq \lambda_2 \leq \ldots \leq \lambda_n$ be the first n positive eigen values of (1), let $\varphi_j(x)$ be the eigen function corresponding to the value λ_j. Let the functions $a_j(x)$ be defined by

Card 2/4

Extremum Properties of the Eigen Values of Integral Equations With Essentially Positive Kernel and Nonmonotone Distribution Function

SOV/41-10-2-4/13

$da_j(x) = \varphi_j(x)d\delta(x)$, $j = 1,\ldots,n$. Among the functions $a(x)$ for which $I(a,\delta) > 0$ let a function $a(x) = a_{n+1}(x)$ exist for which $I(a,a,\delta)$ attains the minimum d_{n+1} and which satisfies the conditions $\int_0^1 \left[\int_0^1 k(x,s)da(s) \right] da_j(x) = 0$, $j=1,2,\ldots,n$

Then it is 1.) $da(x) = da_{n+1}(x) = \varphi_{n+1}(x)d\delta(x)$ 2.) $\lambda_{n+1} = d_{n+1}$ 3.) λ_{n+1} the smallest eigen value following λ_n .

Analogous theorems hold for the negative eigen values.
Finally the author presents some applications to mechanics.
There are 6 references, 5 of which are Soviet, and 1 German.

Card 3/4

Extremum Properties of the Eigen Values of Integral Equations With Essentially Positive Kernel and Nonmonotone Distribution Function

SOV/41-10-2-4/13

SUBMITTED: October 16, 1956

1. Integral equations--Properties 2. Functions 3. Mathematics --Applications

Card 4/4

OVCHINNIKOV, P.F.

Extremal properties of eigenvalues of integral equations with a positive defined kernel and a nonmonotonous distribution function [with summary in English]. Ukr. mat. zhur. 10 no.2:147-159 '58. (MIRA 11:6)
(Integral equations) (Eigenvalues)

OVCHINNIKOV P F

124-11-12420

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 14 (USSR)

AUTHOR: Ovchinnikov, P. F.

TITLE: Integral Equations of the Stationary Motion of a Revolving Shaft of Variable Section with Consideration of Displacements and of the Gyroscopic Moment.(Integral'nyye uravneniya ustanovivshegosya dvizheniya vrashchayushchegosya vala peremennogo secheniya s uchetom sdviga i giroskopicheskogo momenta). Ukrainian, Russian abstract.

PERIODICAL: Prykl. Mekhanika, 1956, Vol 2; Nr 3, pp 284-296

ABSTRACT: Survey of the theory of the stationary motion of a revolving shaft having a variable cross-section with consideration to displacements and of the gyroscopic moment, and its relationship with the theory of small transverse vibrations of a non-revolving bar.

M. Ye. Temchenko

Card 1/1

OVCHINNIKOV, P.N.

Production of flotation agents. Biul.tekh.-ekon.inform. no.11: 7-11 '58. (MIRA 11:12)
(Flotation) (Amines)

VVEDENSKIY, A.I.; GRIGOR'YEV, Yu.S.; KNORRING, I.G.; KRECHETOVICH, V.I.; OVCHINNIKOV, P.N.; FILATOVA, I.F.; CHUKAVINA, A.P.; ZENDEL', M.Ye., tekhn. red.

[Flora of the Tajik S.S.R.]Flora Tadzhikskoi SSR. Glav. red. P.N.Ovchinnikov. Moskva, Izd-vo AN SSSR. Vol.2.[Cyperaceae - Orchidaceae]Osokovye-Orkhidnye. 1963. 454 p. (MIRA 16:8)
(Tajikistan--Monocotyledons)

OVCHINNIKOV, P N.

Ovchinnikov, P. N.: "On the typological differentiation of the grassy vegetation of Tadzhikistan", Soobshch. Tadzh. filiala Akad. nauk SSSR, Issue 10, 1948, p. 27-30, - Bibliog: 10 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

OVCHINNIKOV, P. N. (Co-author)

See: KOZLOVA, G. I.

Ovchinnikov, P. N. and Kozlova, G. I. "On the presence of tau-saryz in Tadzhikistan," Soobshch. Tadzh. filiala Akad. nauk SSR, Issue 12, 1948, p. 8-9.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal'nykh Statey, No. 17, 1949).

ZAPRYAGAYEVA, V.I.; PAVLOVSKIY, Ye.N., akademik, redaktor; OVCHINNIKOV, P.N., doktor biologicheskikh nauk, redaktor; MATVEYEV, M.I., kandidat biologicheskikh nauk, redaktor; ZAFRAN, M.I., tekhnicheskiy redaktor.

Fruit culture and afforestation by dry-farming methods in mountainous Tajikistan. Trudy TFAN SSSR 17:3-118 '49. (MLRA 8:4)
(Tajikistan--Fruit culture) (Tajikistan--Afforestation)

OVCHINNIKOV, P.N.

Occurrence of tau-saghyz in Tajikistan. Trudy TFAN SSSR 18:91-106 '51. (MLRA 8:8)

(Tajikistan--Tau-Saghyz)

1. OVCHINNIKOV, P. N. and SIDORENKO, G. T.

2. USSR (600)

4. Ranales - Tajikistan

7. Discovery of a species of Bushcia in Tajikistan. Soob. TFAN SSSR no. 30, 1951.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

SVESHNIKOVA, V.M.; AYNI, S., glavnyy redaktor; OVCHINNIKOV, P.N., otvetstvennyy redaktor; MATVEYEV, M.I., redaktor; KOTSARENKO, Ye.G., redaktor izdatel'stva; FROLOV, P., tekhnicheskiy redaktor.

[Root systems of Pamir plants] Kornevye sistemy rastenii Pamira. Stalinabad, Izd-vo Akademii nauk Tadzhikskoi SSR, 1952. 120 p. (Akademiia nauk Tadzhikskoi SSR, Stalinabad, Trudy, vol. 4). (MLRA 9:11)
(Pamirs--Botany--Ecology) (Roots (Botany))

SIDORENKO, G.T.; AYNI, S., glavnyy red.; OVCHINNIKOV, P.N., otv.red.; KOTSABENKO, Ye., red.izd-va; FROLOV, P., tekhn.red.

[Vegetation and forage resources of the Kurama Range] Rastitel'nost' i kormovye resursy Kuraminskogo khrebta. Stalinabad, Izd-vo Akad.nauk Tadzh.SSR, 1953. 98 p. (Akademiia nauk Tadzhikskoi SSR. Stalinabad. Trudy, vol.9) (MIRA 12:6)
(Kurama Range--Botany) (Forage plants)

MATVEYEV, M.I.; OVCHINNIKOV, P.N., redaktor; BRODETOVA, L.G., redaktor; KOTSARENKO, Ye.G., redaktor; FROLOV, P., tekhnicheskiy redaktor.

[Water cycle of some arborescent plants in the mountainous part of Tajikistan] Vodnyi reshim nekotorykh drevesnykh rasteniy gornogo Tadshikistana. Stalinabad, Izd-vo Akademii nauk Tadshikskoy SSR, 1953. 81 p. (Akademiia nauk Tadshikskoi SSR, Stalinabad. Trudy, no. 10) (Tajikistan--Plants--Transpiration) (Fruit trees) (MLRA 9:10) (Nut trees)

OVCHINNIKOV, P.N.; CHUKAVINA, A.P.

New species of rice grass from Tajikistan. Izv.Otd.est.nauk AN Tadzh.SSR no.10:57-58 '55. (MLRA 9:10)

1. Institut botaniki AN Tadzhikskoy SSR.
(Tajikistan--Grasses)

OVCHINNIKOV, P.N.

Critical notes on "Androsace bryomorpha Lipsky" from Tajikistan.
Bot.mat.Gerb. 17:324-327 '55. (MLRA 9:5)
(Rockjasmine)

OVCHINNIKOV P.N

USSR/General Biology - Evolution. B-7

Abs Jour : Ref Zhur - Biol., No 7, 1958, 28616

Author : Ovchinnikov, P.N.
Inst : -
Title : Basic Courses of Origin of Species in Connection with the Origin of Middle Asian Vegetative Types.

Orig Pub : Tr. AN TadzhSSR, 1955, 31, 107-140

Abstract : No abstract.

Card 1/1

OVCHINNIKOV, P.N.; CHUKAVINA, A.P.

New varieties of meadow grass (Poa L.) from Tajikistan. Izv. Otd. est. nauk AN Tadzh.SSR no. 17:37-44 '56. (MIRA 11:8)

1. Institut botaniki AN Tadzhikskoy SSR.
(Tajikistan--Meadow grass--Varieties)

OVCHINNIKOV, P.N.; CHUKAVINA, A.P.

A new feather grass (Stipa jegnobica Ovcz. et Czuk.) from Tajikistan.
Izv. Otd. est. nauk AN Tadzh.SSR no. 17:51-52 '56. (MIRA 11:8)

1. Institut botaniki AN Tadzhikskoy SSR.
(Tajikistan--Feather grass)

OVCHINNIKOV, P.N., red.

[Silviculture in Tajikistan] Lesorazvedenie v Tadzhikistane. Stalinabad, Akademiia nauk Tadzhikskoi SSR, 1957. 216 p. (MIRA 11:4)

1. Akademiya nauk Tadzhikskoy SSR, Stalinabad. Institut botaniki.
(Tajikistan--Forests and forestry)

OVCHINNIKOV, P.N.

Some trends in the classification of plants in Central Asia. Izv. Otd . est. nauk AN Tadzh.SSR no. 18:49-64 '57. (MIRA 11:8)

1. Institut botaniki AN Tadzhikskoy SSR.
(Soviet Central Asia--Botany--Classification)