sov/30-56-60-5/10

AUTHOR:

Laykhtman, D. L. and Orlenko, G. P.

TITLE:

Intensity of Turbulent Exchange Over Water (Ob intensivnosti

turbulentnogo obmena nad vodnoy poverkhnost'yu)

PERIODICAL:

Trudy Glavnoy geofizicheskoy observatorii, 1956, Nr 60, pp 51-52 (USSR)

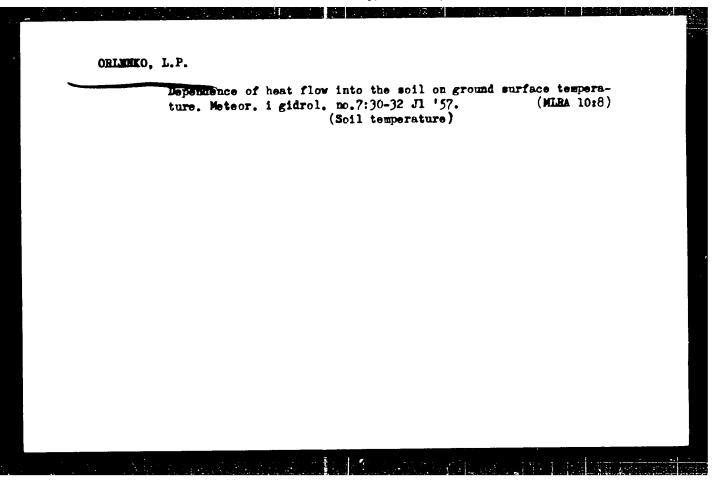
ABSTRACT:

An important indicator of turbulence over water surface is the vertical coefficient of turbulence which is a factor in all formulas for computing thermal strums, humidity, etc. This coefficient was calculated from parameters characterizing the distribution of diffusive substances. The parameters were secured in 54 experiments. The ar-

ticle contains 1 diagram. There are no references.

Card 1/1

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TOPIC TAGS:	vulcanisation, be	stadione, nitrile	rubber, syntheti	c rubber	
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30V/139-58-6-3/29

Orlenko, L.P. and Stanyukovich, K.P. AUTHORS:

Shock Waves in Solids (Udarnyye volny v tverdyki, 'elaki.) PITIE:

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika. 1958, Nr 6, pp 14-24 (USSR)

A theory is presented of the propagation of shock waves in solids; a relation between instantaneous ALCIRACT: pressure and deformation is deduced and the corresponding wave and particle velocities computed The basic equation of propagation in one dimension is

$$\frac{\partial u}{\partial t} + \frac{\partial p}{\partial h} = 0, \qquad \frac{\partial u}{\partial h} = \frac{\partial v}{\partial t}. \tag{1}$$

Here u denctes the particle velocity, v = specific volume (v = 1/p, where p = density) and h the Lagrangian co-ordinate; t and p denote time and pressure respectively Writing σ for tension and ε for volume strain (i.e. change in volume per unit initial volume) the following relations are obtained:

 $\sigma = -\mathbf{b}_{i} \quad \epsilon = \frac{\mathbf{v} - \mathbf{v}_{0}}{\mathbf{v}_{0}} = \frac{\mathbf{b}_{0}}{\mathbf{p}} - 1,$ (5)

Card 1/4

101/139-58-6 3/29

Shock waves in Solids

Here \mathbf{v}_0 signifies the initial value of \mathbf{v} , while p and \mathbf{p}_0 signify the densities associated with \mathbf{v} and \mathbf{v}_0 by $\mathbf{v} = 1/\mathbf{f}$ and $\mathbf{v}_0 = 1/\mathbf{f}_0$ respectively. Substitution of Eq. (2) into Eq. (1) yields the following relations

$$\frac{\partial u}{\partial u} = \frac{\partial h}{\partial \sigma} = \frac{\partial \epsilon}{\partial \sigma} = \frac{\partial \epsilon}{\partial \varepsilon} \qquad \frac{\partial h}{\partial u} = v_0 \frac{\partial t}{\partial \varepsilon} \qquad (3)$$

If the relation between o and a is known in functional form, these last equations enable the shock wave velocity to be deduced. A relation which gives at our agreement with experiment is:

$$\sigma - \sigma_0 = -A(\varepsilon - \varepsilon_0)^{3}$$
 (4)

where σ_0 , ε_0 are initial values of σ , ε and A is related to the elastic properties of the medium and shock-wave velocity ε , associated with this relationship between σ and ε , is readily shown to be given by:

between
$$\sigma$$
 and ε , is readily σ

$$c = \sqrt{\frac{dp}{d\rho}} = (\varepsilon + 1) \sqrt{\frac{d\sigma}{\rho_0 d\varepsilon}} = \sqrt{\frac{\rho_0}{\rho_0 d\varepsilon}} = \sqrt{\frac{\rho_0}{\rho_0}} = \sqrt{\frac{\rho_0}{\rho_0 d\varepsilon}} = \sqrt{\frac{\rho$$

Card 2/4

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Shock waves in Colids

and the corresponding particle velocity w is given by:

$$W = \sqrt{\frac{3A}{P_0}} - \frac{1}{\left[\frac{P_0}{P} - (1 + \epsilon_0)\right]^2} \tag{7}$$

The theory is used to discuss the case in which the initial disturbance lies outside the medium, the example chosen being that of an explosive charge detonated at a height above a plane boundary of the medium. The pressure, p, at any time t after the explosion in this case follows a power law given by

$$\frac{p - p_0}{p_H - p_0} = \left(\frac{\tau}{\tau + \tau}\right)^{3n} \tag{29}$$

Here p_H is the value of p at h=0 and t=0 respectively; p_0 and n are empirical constants and τ is a characteristic time ℓ/D , where D is the detonation velocity [no numerical results are given in tennection with this example but it would presumably be applicable

Card 3/4

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Shock waves in Jolida

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A STATE OF THE PARTY OF THE PAR

to a "nuclear device" detonated above the carries surface] The theory is then applied to a plate of thickness d and waves reflected from the rear surface of the plate are discussed. There is I figure and I devict reference.

SUBMITTED: 16th April 1958

Card 4/4

67513

504/155-59-1-18/30

16(1) 167300 AUTHOR:

Urienko, L.P. Thickness
The Propagation of a Plane Wave in a Plate of Finite Thickness Nauchnyye doklady vyashey shkoly. Fiziko-natematicheskiye nauki,

TITLE:

PERIODICAL:

ABSTRACT:

At first the author considers the propogation of a wave in a hard half space on the free surface of which there acts an neru nell space on the tree surface of which then decreases with time. The shift instantaneous pressure which then decreases with time. instantaneous pressure which then decreases with time. The shift of the particles is one-dimensional and takes place in the direction of the wave motion. Wood / Ref / Yes wiven a numerical rection of the wave motion. or the particles is one-dimensional and takes place in the direction of the wave motion. Wood Land waves, who suther gives the solution for the propagation of such waves. rection of the wave motion. Wood [Ref 4] has given a numerical the wave motion of such waves. The author gives the solution for the propagation of such waves the motion equation analytic solution of the problem and solves the motion equation solution for the propagation of such waves. The author gives the analytic solution of the problem and solves the motion boundary in the region of the shock wave under corresponding boundary in the region of the shock wave under corresponding boundary

where the x-axis is the direction into the interior of the semi-

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Card 1/2

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ORIENKO, L.P.

Motion of a piston in the soil. Mauch.dokl.vys.shkoly; fiz.-mat.
nauki no.3:105-110 '59. (MIRA 13:6)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.E.
Baumana. (Soil mechanics) (Explosives)
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\$/154/60/000/02/10/618 B012/B123

AUTHOR:

Orlenko, L. P.

TITLE:

Recent Vertical Movements of the Coasts of the White and

Barents Seas

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i

aerofotos"yemka, 1960, No. 2, pp. 95-96

TEXT: In the investigation of the movements of the earth crust on the territory of the USSR, performed by the MIIGAik (Moscow Institute of Geodetic, Aerial Survey, and Cartographic Engineers), and the Institut geografii AN SSSR (Geographical Institute of the AS USSR), and oceanographical organizations the determination of the speed of the movement played an important part. There are already publications on this problem in Soviet literature, i.e., concerning the Baltic-, Black-, and Caspian Seas, and the Sea of Azov, but not for the northern seas. For the observation points at Mud'yug, Severodvinsk, Kem'-port, Sosnovets, Barents-burg, and Teriberka levelings were carried out during at least ten years (cf. Table 1). The values and their errors were treated by the method

Card 1/2

Recent Vertical Movements of the Coasts of the White and Barents Seas

S/154/60/000/02/10/018 B012/B123

of least squares. From the data gained one can see that for both seas there is a tendency to coastal depression which is stronger, however, for the Barents Sea (0.1-0.3 cm/year). For the White Sea the speed of depression of almost all points lies within the permissible limits. That means that the White Sea is practically stable. The values given should be considered to be approximate values, and additional material will be needed for a final report. There is 1 Soviet reference.

SUBMITTED: Jul

July 6, 1959

Card 2/2

BULGAKOVA, A.A., ORLKHYO, L.P., FEDOTOV, I.D.

Loosening stuc. drills without tearing off the pipe. Prikl. geofiz.

(MIHA 13:8)

(Oil well drilling)

ORLENKO, L. P., kand. tekhn. nauk

Modeling at dynamic loading. Izv. vys. ucheb. sav.; mashinostr. no.7:89-93 '62. (MIRA 16:1)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

(Engineering models)

JD/HW AFFTC/ASD BMP(k)/EMP(q)/EMT(m)/BDS L 16582-63 S/145/62/000/012/010/011 Anuchin, M. A., Candidate of Technical Sciences, Orlenko. Candidate of Technical Sciences, Antonenkov, O. D., Engineer, AUTHOR: and Dubinin, V. V., Engineer Approximate method of evaluation of energy of forming thin TITLE: walled parts Izvestiya vysshikh uchebynkh zavedeniy. Mashinostroyeniya, PERIODICAL: no. 12, 1962, 158-167 The author presents an approximate method for evaluation of

TEXT: The author presents an approximate method for evaluation approximate method for evaluations for evaluation for the stamp forming with explosives of thin walled axially symmetrical approximation for parts. These calculations have been corroborated on a special installation for parts. These calculations have been corroborated on a special installation for parts. These calculations have been corroborated on a special installation for hydraulic stamping. The energy of stamp forming is a sum of deformation work of tension-compression, bending and friction. The major part of deformation of the energy is required for tension-compression (about 804 of the total sum of the energy is required for obtaining parts of deformations and their effort). The author gives a mathematical analysis of deformations and their effort). The energy required for obtaining parts of the required form is the intensity. The energy required for obtaining parts of the required form is the determining factor serving for the estimation of the weight of the charge, the

Card 1/2

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BOOK EXPLOITATION

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Orlenko, L.P.

1 4

Behavior of materials under intensive dynamic loads (Povedeniye materialov pri intensivnykh dinamicheskikh nagruzkakh) Moscow, Izd-vo "Mashinostroyeniye," 1964. 0166 p. illus., biblio. Errata slip inserted. 2,500 copies printed.

TOPIC TAGS: explosive forming, dynamic stress, spark shock wave, compression shock wave, compressive stress, mechanical engineering, solid mechanical property, mechanical shock resistance, simulation, metal, metal physical property, high strength metal

PURPOSE AND COVERAGE: This book is concerned with the mechanical and physical properties of materials under dynamic loads and shock conditions. The text presents problems in shock-induced compressibility of solids and change of mechanical properties of materials under dynamic loads. It also contains problems of propagation of stress waves in dense media, of deformation of thin-walled shells under dynamic loads induced by electric sparks, explosives, or piston impacts, and of simulation under dynamic load conditions. The book is intended for specialists in dynamic technological processes, such as explosive or electric spark forming, as well as for specialists concerned with the dynamic strength of structures. The author thanks Kirill Petrovich Stanyukovich for his advice and aid in the work.

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IDC: 539-4/5: 620-178-7-001-57

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ACC NR. AM5011015

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Ch. III. Initial parameters of shock waves at the boundary between two media -- 82

Ch. IV. Stress waves in dense media -- 98

Ch. V. Simulation under dynamic loads -- 130

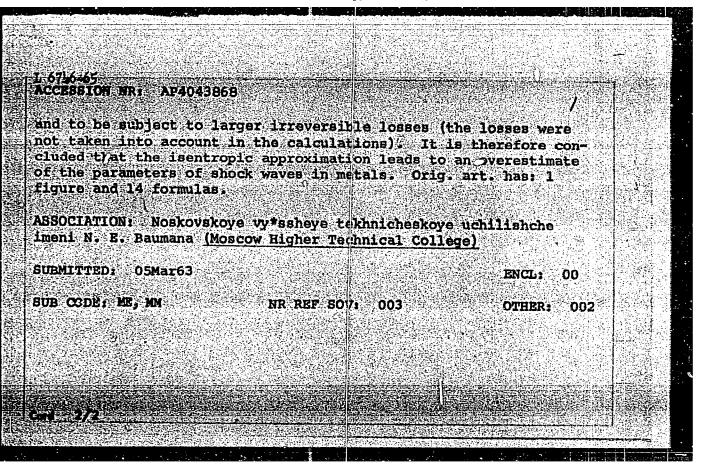
Ch. VI. Dynamic deformation of thin valled shells -- 149

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L 67L6-65 EMT(m)/EFR/EMP(k)/EMP(q)/EMP(x)/EMP(b) Pf-L/Ps-L AFETR/AEDC(a)/ ASD(f)/SSD/AFVL JW/JD/HW ACCESSION NR: AP4043868 8/0139/64/000/004/0072/0075 AUTHOR: Orlenko, L. P. TITLE: On shock waves in metals, SOURCE: IVUE, Fizika, no. 4, 1964, 72-75 TOPIC TAGS: shock wave thermodynamics, shock wave propagation, compression wave, copper, aluminum ABSTRACT: The attenuation of shock waves in metals is analyzed by regarding the shock wave as an isentropic compression wave with the dynamic pressure specified on the surface of the metal as a function of the time. The calculated shock wave parameters are compared with the experimental values for copper and aluminum, the agreement being better for copper than for aluminum. The reason for the discrepancy in the case of aluminum is the higher compressibility of aluminum, causing it to be more heated by the shock wave than copper Card 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



L 9265-66 FSS-2/EWI(1)/EWP(m)/EWI(m)/EWA(d)/EWP(4)/T/FCS(k)/EWA(h)/EWA(c)

ACC NR AP5027284 IJP(c)/RPL WM/AT/RN SOURCE CODE: UR/0207/65/000/005/0130/0131

AUTHORS: Orlenko, L. P. (Moscow); Parshev, L. P. (Moscow)

ORG: none

TITLE: Computation of the energy of a shock wave in water

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1965, 130-131

TOPIC TAGS: shock wave, shock wave front, shock wave propagation, shock mechanics, explosion, explosion effect, underwater explosion

ABSTRACT: The energy of an underwater shock wave stemming from an underwater explosion is solved through consideration of irreversible mechanical dissipation of energy. The dissipation of energy in an underwater shock wave is determined with the aid of the shock adiabatic, discharge isentropes, and the variation of frontal pressure with distance. The total value of irreversible energy loss E in a shock wave from an underwater explosion with spherical throw-cut of explosive material is given by $E_1 = \frac{4\pi}{v_0} \int_{v} e(p_0) r^2 dr$ where the unit energy losses $e(p_2)$ are equal to $e(p_0) = \frac{p_0 + p_0}{2} (v_0 - v_0) - \int_{p} dv_0$ Cord 1/3

ACC NR. AP5027284

(see F. A. Baum, K. P. Stanyukovich, and B. I. Shekhter. Fizita Varyva. Firmatgiz, 1959). The quantities p_0 and v_0 are the initial pressure and unit volume of the water; $p_2(r)$ and $v_2(r)$ are the pressure and unit volume at the shock wave front; r is the coordinate of the shock wave front; and r_0 is the throw-out radius. The integral term in the second equation is computed along the expansion isentropes of the water (see Fig. 1)

Fig. 1.

Fig. 1.

Fig. 1.

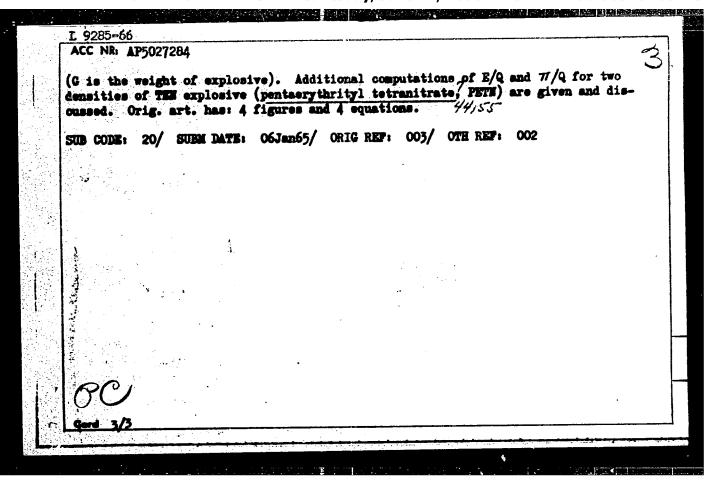
Fig. 2.

Fig. 3.

Fig. 4.

Fig

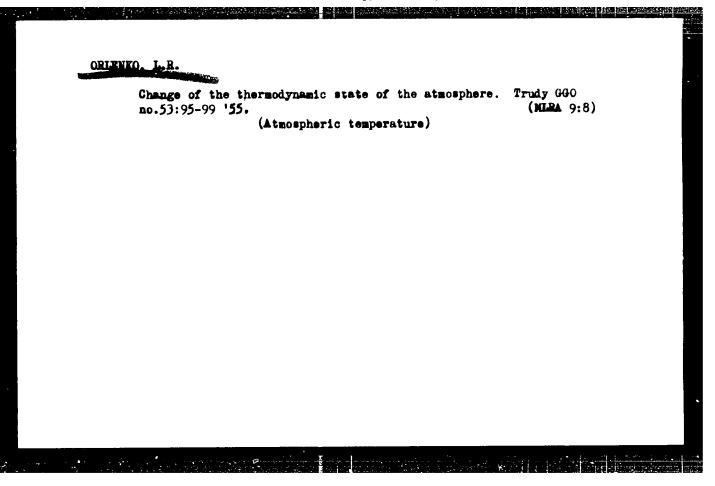
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ORLENKO, L. R.

OFLENKO, L. R.--"Analysis of the Basic Factors Determining the Daily Oscillations in Temperature of the Ground Layer of the Atmosphere." Main Administration of the Hydrometeorological Service, Council of Ministers USSR. Main Geophysical Observatory imeni A. I. Voyeykov. Leningrad, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences).

SO: Knizhnaya Letopis' No. 2", 2 July 1955



SOV/36-56-60-7/10

AUTHOR:

Orlenko, L. R.

TITLE:

Computing the Diurnal Rate of Shortwave Radiation on Clear Days (K raschetu sutochnogo khoda korotkovolnovy radiatsii v yasnyye dni)

PERIODICAL:

Trudy Glavnoy geofizicheskoy observatorii, 1956, Nr 60, pp 60-66

(USSR)

ABSTRACT:

In studying the diurnal variations in temperature an accurate elevation of the diurnal rate of shortwave radiation is of primary importance and all losses in radiation should be accounted for. Solar radiation in the atmosphere is weakened through absorption by aygen, ezone, water vapor and other components of dry air. Dispersion by dry air and vapor together with scattering and diffusive reflection of substances suspended in the atmosphere (dust) are also contributing factors. Theoretical computations and observations form the basis for a new, well founded nomogram. The article contains a supplement. There are 2 tables, 2 diagrams, and 7 references of which 5 are Soviet and

2 German.

Card 1/1

36-57 -69-1/16

AUTHOR:

Orlenko, L. R.

TIME:

Evaluation of the Influence of Daily Evaporation Rate on the Temperature of Surface Soil and Near-surface Air (Otsenka vliyaniya sutochnogo khoda ispareniya na temperaturu poverkhnosti pochvy i

ki nyekvan saréna barata i Kar

vozdukha)

PERIODICAL:

Trudy Glavnoy geofizicheskoy observatorii, 1997.

Nr 69, pp 3-10 (USSR)

The author points out that in computing the caily temperature rate for the heat balance of surface soil, earlier researchers (such as A. A. Dorodnitsyn, I. G. Lyutershteyn, and A. F. Chudrovskiy) failed to account for the heat spent ABSTRACT: on evaporation. The present article suggests a method for determining such heat losses, and in this way obtain a more accurate picture of the influence of evaporation temperature. The author recalls a similar attempt by M. Ye. Shvets who based his calculation on the coefficient of maximum specific humidity at the surface of water or moist soil. On the other hand the author of the present article treats the phenomenon of evaporation as a function related directly to surface soil temperature. The necessary data for such a relationship were deduced from the results of observations at the Koltushi Station (near Leningrad), conducted in the

Card 1/2

36-57-69-1/16

Evaluation of the Influence of Daily Evaporation (Cont.)

summer of 1950. The initial formula in determining the dependence of evaporation on temperature is $IE=IE_0$ + bt, where b is the coefficient of change in the evaporation rate resulting from a temperature change (the coefficient being expressed in calories per square centimeter per minute); t is the deviation of temperature from the mean daily temperature; and IE_0 is the mean daily evaporation rate. Based on the knowledge of the parameter IE, the author develops a mathematical method to determine the loss of heat required for evaporation. Among other data (such as the temperature of the soil) the method also accounts for turbulent heat conductivity. In Section 3 of the article the author verifies the results obtained, plotting two curves, one of which reflects the heat lost during evaporation. The difference amounts to 4-6° Centigrade daytime and to -3 to -5° at night, when b = 0. Verification was also conducted at the above-mentioned station at Koltushi. There are 4 figures and 5 Soviet references.

AVAILABLE: Library of Congress

Card 2/2

CELLAKI, LA

PHASE I BOOK EXPLOITATION

sov/4641

- Leningrad. Glavnaya geofizicheskaya observatoriya
- Voprosy fiziki prizemnogo slova vozdukha (Problems in the Physics of the Near-Surface Air Layer) Leningrad, Gidrometeoizdat, 1960. 161 p. (Series: Its: Trudy, vyp. 94) Errata slip inserted. 850 copies printed.
- Sponsoring Agencies: Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova; Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.
- Ed. (Title page): D.L. Laykhtman, Doctor of Physics and Mathematics; Ed. (Inside book): Yu.V. Vlasova; Tech. Ed.: N.V. Volkov.
- PURPOSE: This publication is intended for meteorologists specializing in the lower layers of the atmosphere. It may also be of interest to agronomists, construction engineers, and other specialists whose activities are influenced by atmospheric conditions.
- COVERAGE: This issue of the Transactions of the Main Geophysical Observatory contains 18 articles dealing mainly with problems of the physics of the mear-surface air layer. Correlations between the surface wind and geostrophic wind are examined and the results of both theoretical calculations and Card 1/4

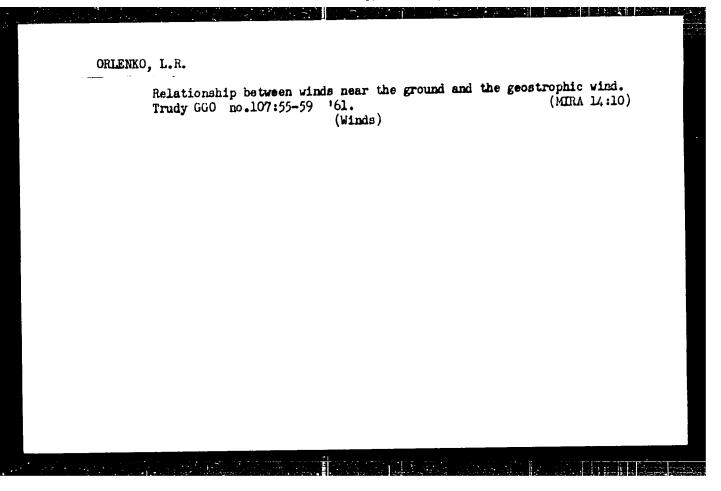
Problems in the Physics (Cont.) SOV/4641 experimental investigations given. Individual articles analyze the temperature regime of the active surface of soil and the factors determining the thermal conditions of the boundary layer. Results of fog investigation are presented in two articles. In addition, some problems of methods in the experimental investigation of the near-surface layer are elucidated. No personalities are mentioned. References follow each article. TABLE OF CONTENTS: Laykhtman, D.L. Formulation of the Problem of the Stationary Structure of the Boundary Layer 3 Tseytin, G.Kh., and L.R. Orlenko. Stationary Distribution of Wind, Temperature, and Turbulent Exchange in the Boundary Layer Under Different States of Stability 8 Ariyel', N.Z., and L.A. Klyuchnikova. Wind Under City Conditions 29 Klyuchnikova, L.A., and F.N. Shekhter. The Role of Radiant and Turbulent Heat Exchange in the Formation of the Temperature Stratification in the Boundary Layer Card 2/4 33

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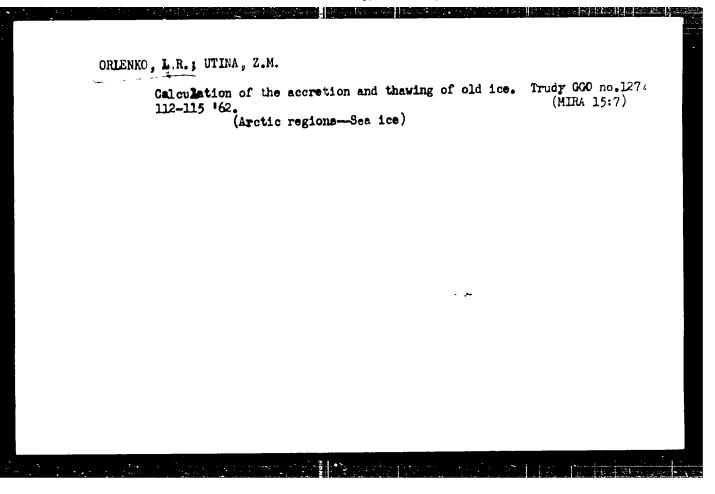
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



ACCESSION NR: AT4004709

S/2922/63/007/000/0045/0051

AUTHOR: Orlenko, L. R.

TITLE: Determination of the vertical currents in the boundary layer from external parameters

SOURCES: Vses. nauchn. meteorologich. soveshch. Trudy*, v. 7, Fizika prizemnogo sloya. Leningrad, 1963, 45-51

TOPIC TAGS: meteorology, vertical air current, updraft, atmospheric boundary layer, vertical current determination, atmospheric friction, wind, wind velocity, turbulence, synoptic process, barometric pressure, Coriolis parameter, boundary layer structure, temperature, temperature gradient, atmospheric turbulence

ABSTRACT: A method is described for determining vertical currents in the boundary layer of the atmospherc. It is shown that the determination of the vertical component of wind velocity in this layer requires data on the distribution of its horizontal components. Two approaches are given for determination of the vertical component, depending on how the horizontal components are determined. Since one method requires a dense network of stations, emphasis is on the second approach, based on certain formulas for the distribution of wind velocity and direction in the boundary layer. Two equations are given making it possible to determine the wind velocity profile if the turbulence coefficient in the boundary layer.

ACCESSION NR: AT4004709

layer is known. The difficulty of determining this coefficient is overcome, and the problem is solved for a specific stratification of the atmosphere. Wind velocity in the boundary layer is determined from the known pressure field and the roughness of the underlying surface, so-called external parameters. A simple expression is derived for the vertical component at the upper limit of the boundary layer. A qualitative analysis has been made of the dependence of vertical currents on the speed of the geostrophic wind and air stratification of the boundary layer for a symmetric pressure formation assuming a constant turbulence coefficient in the entire boundary layer. Such an analysis makes it possible to make quantitative estimates of vertical currents in the boundary layer. Final formulas give the relationship between the vertical component and the speed of the geostrophic wind and air stratification in the boundary layer. The method was checked using data on the geostrophic wind and the temperature gradient from synoptic charts. Solution of the formulated problem makes it possible to predict, as well as determine, vertical currents, provided there is a forecast of the pressure field. Orig. art. has: 24 formulas.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory)

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 00

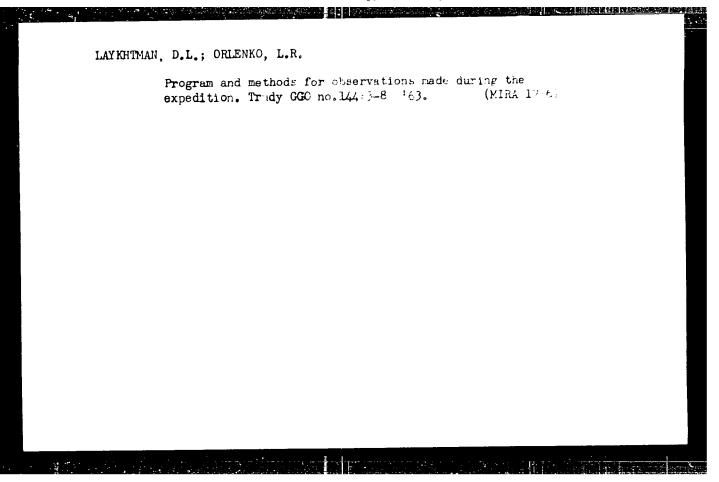
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Card 2/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



\$/2531/63/000/144/0011/0021

ACCESSION NR: AT4028737

AUTHOR: Orlenko, L. R.; Tkachenko, A. V.

TITLE: Some results of the processing and analysis of gradient observations in the surface layer of the atmosphere

SOURCE: Leningrad. Gl. geofiz. observ. i Ukr. n.-i. gidrometeorol. inst. Trudy*, no. 144/40, 1963. Fizika pogranichnogo sloya atmosfery* (physics of the atmospheric boundary layer); Dneprovskaya expeditsiya GGO i UkrNIGMI, 11-21

TOPIC TAGS: gradient observation, atmospheric surface layer, turbulence, wind profile, heat flow, moisture flow, energy balance

ARSTRACT: The authors examined the results of processing and analysis of gradient observations in the surface layer: wind profile parameters, components of the energy balance of turbulence, and the turbulent flows of heat and humidity. Gradient observations, conducted during the Dnieper expedition, on wind velocity, air temperature and humidity, enabled them to produce vertical profiles of these meteorological elements and, after appropriate processing of the data, to obtain important characteristics of the surface layer as the coefficient of turbulence, the components of the energy balance of turbulence, and the turbulent flow of heat and humidity.

Card .1/2

CIA-RDP86-00513R001238 APPROVED FOR RELEASE: Wednesday, June 21, 2000

THE RESIDENCE OF THE PARTY OF T LAYKHTMAN, D.L.; ORLENKO, L.R.; TKACHENKO, A.V. Dispersion of the turbulence energy in the lowest layer Dispersion of the turbilence shells 23 163. of the atmosphere. Trudy (GO no.144:28-33 (MIRA 17:6)

s/2531/63/000/144/0034/0047

ACCESSION NR: AT4028740

AUTHOR: Orlenko, L. K.

TITLE: On the ratio of the components of the energy balance of turbulence according

SOURCE: Leningrad. Gl. geofiz. observ. i Ukr. n.-i. gidrometeorol. inst. Trudy*, no. 144/40, 1963. Fizika pogranichnogo sloya atmosfery* (physics of the atmospheric boundary layer); Dneprovskaya expeditsiya GGO i UkrNIGMI, 34-47

TOPIC TAGS: energy balance, turbulence, gradient observation, aerostatic observation, pilot balloon observation, Makhtalinsk expedition, energy dissipation, boundary layer, exponential law

ABSTRACT: In this paper the author examines the ratio between the components of the energy balance of turbulence at arious altitudes. Distribution of wind and temperature in the boundary layer is used for analysis according to materials of gradient, aerostatic and pilot-balloon observation in the Makhtalinsk expedition. Estimates of the parameters δ are given by considering the energy dissipation of turbulence of the parameters δ are given by considering the energy dissipation of turbulence into heat within the boundary layer. Through a series of mathematical arguments, the author derives formulas for the various parameters which are presented in tables

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ACCESSION NR: AT4028740

for various altitudes and times. He also studies the effect of atmospheric stratification on the vertical profile of energy balance of turbulence. This profile is plotted in graphs for day and night times. Observations of the distribution of temperature and wind for 13 hours were used for evaluating δ during the day time. δ was defined according to averaged data for h=20 m and h=50 m, $\gamma=0.98^\circ/100$ m and $\gamma_p=0.6^\circ/100$ m. Calculations have shown that for a reliable determination of δ during the day, the distribution of the wind and temperature must be known in the entire boundary layer. On the basis of the presented analysis, however, it can be assumed that the energy expenditure of turbulence on the operation of interspersion for the boundary layer as a whole is small and therefore δ must be assumed to be somewhat less than unity (0.9-0.8). The value of δ for day conditions must be made more precise. For night conditions the presented value of δ is confirmed by the data of the Dnieper expedition. Orig. art. has: 8 formulas, 3 figures, and 2 tables.

ASSOCIATION: Leningradskaya glavna geofizicheskaya observatoriya (Principle Geophysical Observatory of Leningrad)

SUBMITTED: 00

DATE ACQ: 16Apr64

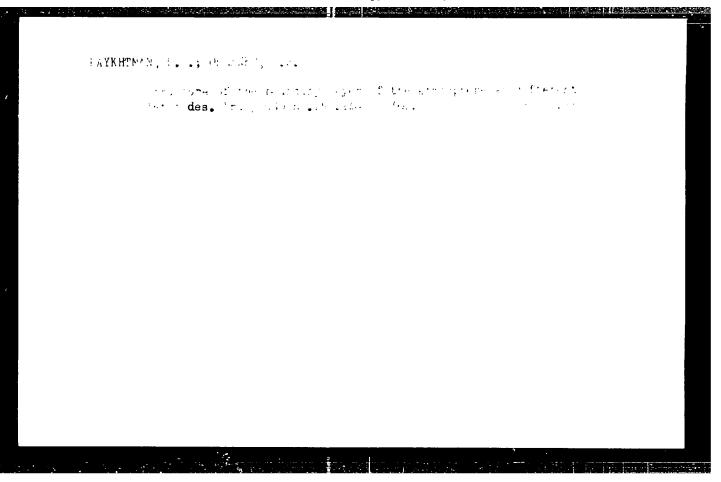
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NO REF SOV: 004

OTHER: 000

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



11179-66 ENT(1)/FCC CC NR: AT6004152	SOURCE CODE: UR/2531/65/000/167/0073/0079	
	Prvatory, Leningrad (Glavnaya geofizicheskaya observatori-	
ORG: Main Geophysical Observa)	data to calculate the components of turbulent energy bal-	
an ce	ya geofizicheskaya observatoriya. Trudy, no. 1, 1965. atmosfery (Physics of the boundary layer of the atmos-	
LISING DOELSTITCHIOS	bounds y layer heat transfer, atmospheric turbulence, tur	-
ABSTRACT: The author cons	siders methods for determining the components of turbulent en-	!
ergy dissipated in heat to tion is derived for turbul	o that generated by the energy of average motions of that generated by the energy of average motions disregarding the energy balance under stationary conditions disregarding the energy balance under stationary conditions disregarding the energy balance under stationary conditions disregarding the energy of average motions of the energy of average motion of the energy of the e	
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ACC NR: AT6004152

diffusion at the upper limit of the boundary layer. Various methods are given for calculating the dissipation parameter which appears in this formula. Figures are given showing the approximate relationship between this parameter and turbulent heat flux. It is pointed out that the approximate values for the dissipation parameter should be refined by experimental data and on the basis of a more general solution for the problem of structure of the boundary layer under various macrometeorologic conditions. Orig. art. has: 1 figure, 18 formulas.

SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 006/ OTH REF: 000

Card 2/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ACC NR. AT6021505 (N) SOURCE CODE: UR/2531/66/000/0187/0013/0043	
AUTHOR: Bortkovskiy, R. S.; Orlenko, L. R.; Tseytin, G. Kh.	
ORG: none	
TITLE: Calculation of wind and tangential stress above a water surface	
SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 187, 1966. Fizika pogranichnogo sloya atmosfery (Physics of the atmospheric boundary layer), 13-43	
TOP.C TAGS: micrometeorology, atmospheric turbulence, wind speed, tangential stress, atmospheric boundary layer, near water boundary layer, wind velocity, ocean dynamics, ocean current, surface tension	
A procedure is presented for calculating wind and tangential stress over the open sea using a given baric field and known temperature stratification. The procedure is based on theoret-	
ical investigations made at the Department of the Physics of the Boundary Layer, Main Geophysical Laboratory. Since the	
roughness of the water surface is regarded as known, the problem is reduced to solving the usual equations of motion for air with a given horizontal baric gradient over a moving surface	
Card 1/3	

ACC NR. AT6021505 (except that the underlying surface is not motionless). Horizontally homogeneous conditions are assumed. In selecting boundary conditions, the presence of surface water currents and the temperature stratification in the boundary layer are characterized by the difference between the water-surface temperature and the air temperature at the upper limit of the boundary layer. The influx of radiant heat is assumed to be a linear function of height, a model in which there is a height h is accepted in determining the turbulence coefficient k, and the Laykhtman model is accepted in determining wind velocity. General solutions are obtained for the layers $z_0 \le z \le h$ and $z \ge h$. The solution for the first case is simplified so that the wind-velocity components are computed rapidly with auxiliary tables and nomograms. A scheme is given for finding wind velocity, tangential stress, the modulus of the wind velocity, and the angle of "friction" at a height of about 10 m above the sea. A simplified procedure is presented for calculating wind velocity and tangential stress under equilibrium conditions. The procedure was tested with limited experimental data. The applicability of the procedure is discussed, and the errors are estimated. For instance, with a time interval of 2 hr, the error in the component of the tangential stress 2/3

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0x = 12%	or V _g = cophic w when ΔV	15 m/sec a rind and the g = 10 m/se conditions should not	c; errors of the crro	of 1.2% a or in th	nd 202 e wind	were not	ea	
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ard 3/3								

ARAHOVSKIY, M.G.; ORLENKO, N.I.; SHTUKIN, L.S.; IYERUSALINSKIY, A.M., dotsent, redaktor.

[Drafting in machine construction] Cherteshnoe khoziaistvo v mashinostroenii.
Leningrad, Nanchno-tekhn. isd-vo mashinostroit. lit-ry [Leningradskoe otd-nie]
1953. 103 p.

(Machinery--Drawing) (Drawing-room practice)

L 06456-67 ENT(m)/EWP(j) IJP(c) GG/RM SOURCE CODE: UR/0089/66/021/001/0064/0066 ACC NR: AP6024546 (A) SURVEY IN A	
AUTHOR: Berlyant, S. M.; Drozdov, V. Ye.; Finkel', E. E.; Orlenko, F. A.; L. M.; Breger, A. Kh.; Karpov, V. L.; Zorin, V. A.	
ORG: none TITLE: Large-scale radiation cross linking of polyethylene insulation of cable pro-	
TITLE: Large-scale radiation cross Times 4	
ducts SOURCE: Atomnaya energiya, v. 21, no. 1, 1956, 64-66 TOPIC TAGS: radiation chemistry, polyethylene, polymer cross linking, insulated wire,	
TOPIC TAGS: radiation chemistry, posterior electric cable/ KP gamma ray apparatus () ABSTRACT: In view of the many advantages resulting from the use of irradiated thermal- ly stabilized polyethylene as insulation in cables, the authors describe apparatus de- ly stabilized polyethylene as insulation, for use in geophysical cables for very veloped for the irradiation of such insulation, for use in geophysical cables for very veloped for the irradiation of such insulation, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), deep well drillin	
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Larionov, L. K. Topil	'skiy, Yu. D. Kozlov,	apparatus, and M. Ye. Ye. and the late N. A. Kuznet.	roshov, M. D.
with the experiments.	Orig. art. has: 3 f	igures.	
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ORLHNKO V.

Work of the polyclinic in the organization of medical service for workers. Zdrav. Belor. 5 no.1:39-41 Ja '59. (MIRA 12:7)

1. Glavnyy vrach tsentral'noy polikliniki, Gomel'. (GOMEL-INDUSTRIAL MEDICINE)

BONDAR', Nikolay Gerasimovich, doktor tekhn. nauk, prof.; KAZEY,
Igor' Ivanovich, kand. tekhr. nauk; KOZ'MIN, Turiy Georgiyevich,
Falkovich, kand. tekhr. nauk; KOZ'MIN, Turiy Georgiyevich,
kand. tekhn. nauk; dots.; Prinimal; uchastiye: TAHASHNKO,
V.F., kand. tekhn. nauk; TAKOVLEV. G.N., kand. tekhn. nauk
dots.; DOROSHENKO, Ye.V., kand. tekhn. nauk; NEVZOROV,
I.N., inzh.; KONASHENKO, S.I., kand. tekhn. nauk, dots.;
ORLENKO, V.P., inzh.; KHOKHLOV, A.A., kand. tekhn. nauk,
dots.; ZELEVICH, P.M., kand. tekhn. nauk, red.

[Dynamics of railroad bridges] Dinamika zhelezno-dorozhnykh mostov. [By] N.G.Bendar i dr. Moskva, Transport, 1965.

(MIRA 18:12)

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SLYUSAREV, T.V.; ORLENKO, V.Ye.

Crops for a winter green fodder plan. Zhivotnovodstvo (MIRA 16:2)

1. Direktor Dinskogo ptitsesovkhoza, Krasnolarskogo kraya (for Slyusarev). 2. Glavnyy agrenom Dinskogo ptitsesovkhoza, Krasnodarskogo kraya (fer Orlenko).

(Poultry—Feeding and feeds)

ORLENKO, YOG. man/ Blology - Plant ecology

Pub. 22 - 50/53

Orlanko, Ye. G.

The characteristics of cak trees among thick bushes

Dok. AM 8888 102/4, 841-844, Jun 1, 1955

Ecological data are presented regarding the behavior of oak trees

growing among thick cultures of other tree types. Three USSR references (1949 and 1952). Tables,

Belorussian Sc. Res. Inst. of Forestry, Gomel'

Academician V. N. Sukachev, February 3, 1955

A Little Little Margarial Copy (1997)

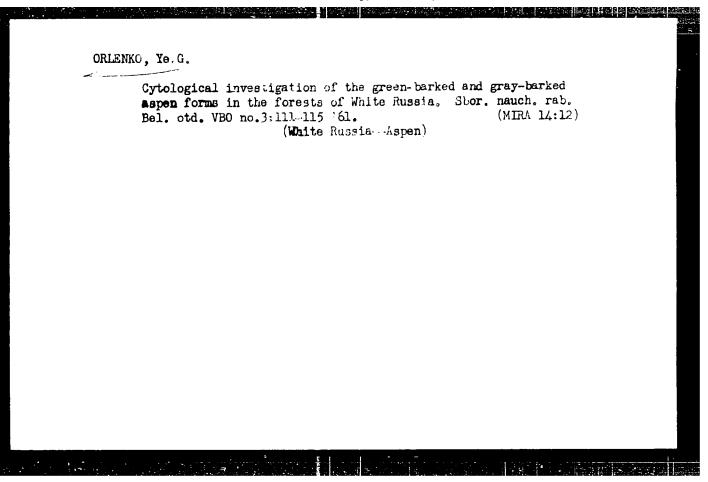
ORLEHKO, Ye.G.

からない かんだい かんかい

Anatomical structure and physiological activity of the leaf apparatus in Quercus pedunculata as affected by illumination. Dokl.AN SSSR 106 no.3:555-557 Ja *56. (MIRA 9:6)

1. Belorusskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva, Gomel'. Predstavleno akademikom V.N. Sukachevym. (Oak) (Leaves)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



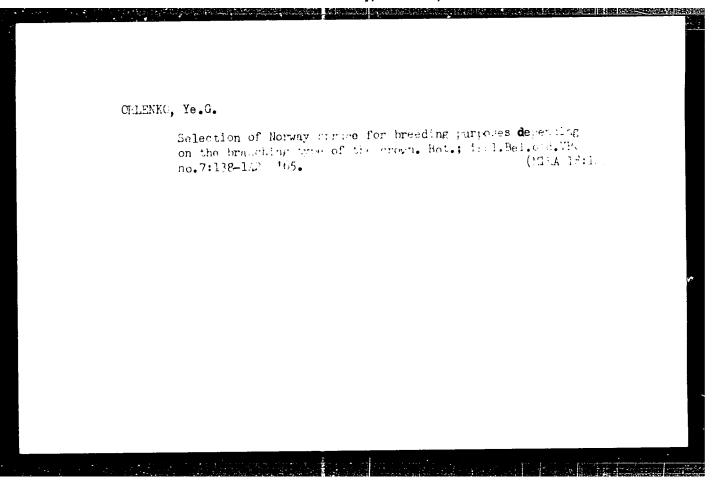
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ORLENKO, Ye.G.

Valuable form of spruce (Picea excelsa var. acuminata Beck.) growing at the southern boundary of its range in the White Russian S.S.R. Dokl.AN BSSR 6 no.2:125-126 F '62. (MIRA 15:2)

1. Belorusskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva, Gomel'. Predstavleno akademikom AN BSSR I.D. Yurkevichem.

(Brest Province—Spruce)



VORONOV, P.S.; KLIMOV, L.V.; ORLENKO, Ye.M.

Geological structure of Mount Brown. Trudy NIIGA 113:98-122 '60.

(MIRA 14:5)

(Brown, Mount, Antarctica—Petrology)

SLOBOLSKOY, A.L., professor; GLants, R.M., starchiy nauchnyy sotrudnik; BHUSNITSY-NA. M.P.; VERBITSKIY, V.P.; ORLEHKO, Yu.M., direktor; OVSIYENKO, I.I., dotsent, direktor.

Gertain data on the role of the cerebral cortex in the pathogenesis of reactions which occur following transfusion of different-type blood. Vest. khir. 73 no.4:9-13 J1-Ag '53. (MLda 6:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut perelivaniya krovi (for Orlenko). 2. Ukrainskiy institut usovershenstvovaniya vruchey (for Ovsiyenko). (Blood--Transfusion) (Brain)

KRAIBSKAYA-IGNATOVA, V.B., professor; ORLENKO, Yu.W., starshiy nauchnyy sotrudnik; CHERNEHKO, M.I., starshiy nauchnyy sotrudnik

Gross reaction to individual blood compatibility and its role in the detection of isosensitixation of the recipient. Vop.perel.krovi

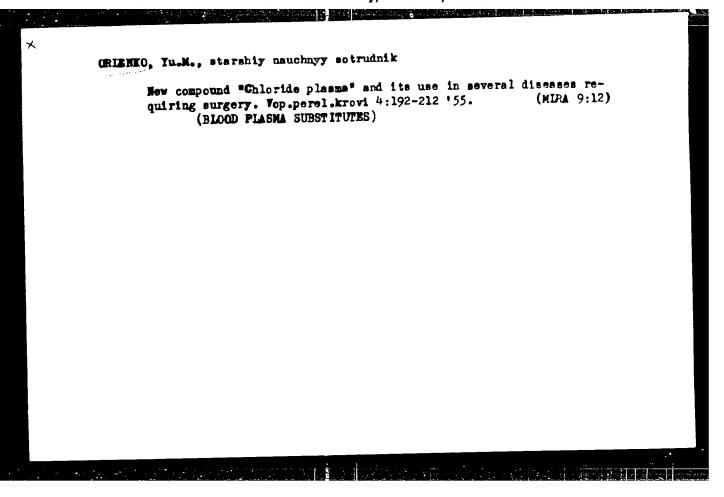
4:89-96 155. (BOOCD--TRANSFUSION)

· 克特在明代斯基基基金的第三人

OBLEDNO, Yu.M. starshiy nauchnyy sotrudnik (Khar'kov, ul. Basseynaya, d. 6/8, kv. 15)

Experimental and clinical use of chloride plasma in acute intestinal obstruction. Nov.khir.arkh. no.2:7-11 Mr-Ap '57. (MLRA 10:8)

1. Ukrainskiy nauchno-issledovatel skiy institut perelivaniya krovi i neotlozhnoy khirurgii (1HTESTINES--OBSTRUCTION) (BLOOD PLASMA SUBSTITUTES)



ORIENKO, Yu.M., starshiy nauchnyysotrudnik; KOZYR', P.T., kandidat biologicheshikh nauk

Role of "midget empules" for the bacteriological control of stored blood and its components at various stages of preservation. Vop. perel.krovi 4:231-241 '55. (MLRA 9:12)

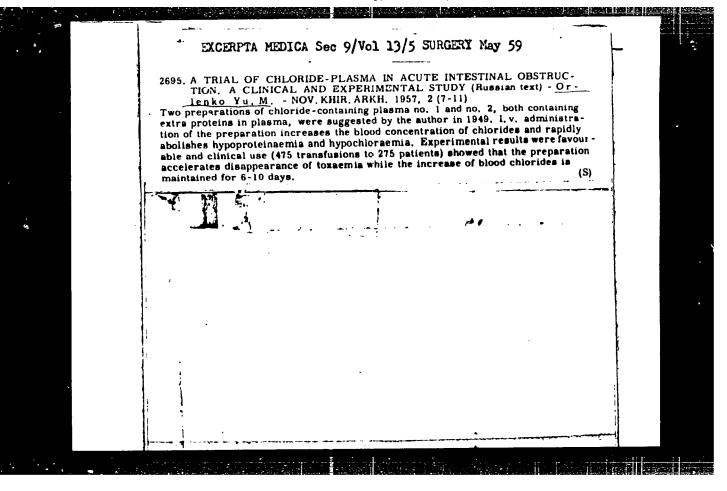
(BLOOD—COLLECTION AND PRESERVATION)

(IABORATORIES—IESTRUMENTS AND APPARATUS)

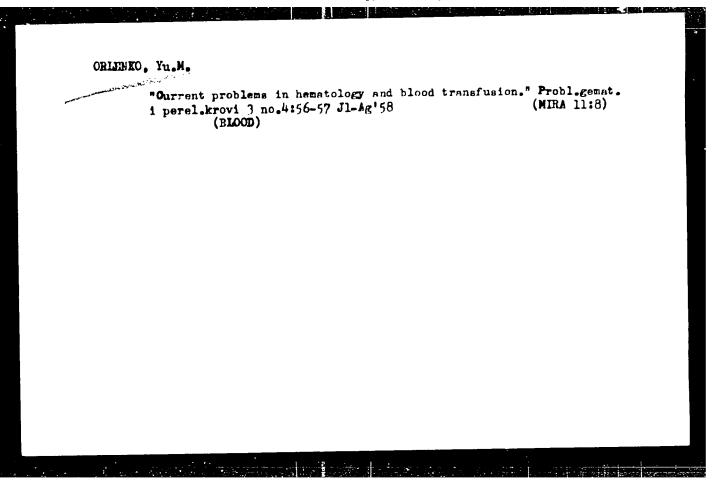
ARLOZOROV, Z.G., starshiy nauchnyy sotrudnik; ORLENKO, Yu.M., starshiy nauchnyy sotrudnik; LEKAREV, S.A., vrach

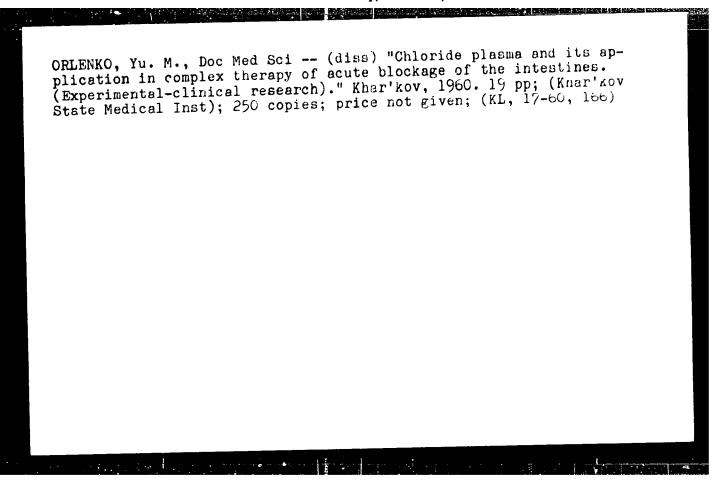
New method of preparing serum from the blood of donors with conservation of the globular mass for transfusions. Vop.perel.krovi 4:259-255 '55. (MLRA 9:12)

(SERUM) (GOLLECTION AND PRESERVATION)



JRLENKO, Yu.M., dotsent Use of chloride-treated plasma in acute intestinal obstruction in experimental and clinical conditions. Probl.gemat. i perel.krovi 2 (MLRA 10:8) no.3:38-41 My-Je '57. 1. Iz Ukrainskogo nauchno-issledovateliskogo instituta perelivaniya krovi i neotlozhnoy khirurgii (INTESTINAL OBSTRUCTION, the rapy, blood plasma with chlorides in exper. & clin. cases (Rus)) (BLOOD TRANSFUSION, in various diseases, intestinal obstruct., chloride-treated plasms in exper. & clin. cases (Rus)) (CHLORIDES, blood plasms treated with chlorides in ther. of exper. & clin. intestinal obstruct. (Rus))





ORLKOKO, Yu.M., doktor med.nauk; BRUSNITSYNA, M.P.; BIRYUKOVA, S.N.

Immediate and late results of different surgical interventions for perforating ulcers of the stomach and duodenum. Khirurgiia no.3:47-51 162. (MIRA 15:3)

1. Iz Ukrainskogo instituta perelivaniya krovi i neotlozhnoy khirurgii i kafedry obshchey khirurgii Khar'kovskogo meditsinskogo instituta. (PEPTIC ULCER) (STOMACH—SURGERY) (DUODENUM—SURGERY)

ORLENKO, Yu. M., doktor med. nauk (Khar'kov, ul. Petrovskogo, d. 6/8, kv. 15)

Perforating ulcers of the stomach and duodenum in elderly and senile subjects. Vest. khir. no.4:12-15 162. (MIRA 15:4) senile subjects. Vest. khir. no.4:12-15 '62.

1. Iz kliniki obshchey khirurgii Khar'kovskogo meditsinskogo instituta (rektor - dotsent B. A. Zadoroshnyy).

(PEPTIC ULCER)

ORLENKO, Yu.M., doktor med. nauk (Khar'kov, ul. Petrovskogo, d.6/8, kv.15/;

Acute cholecystitis in aged and senils persons. Vest. khir. 89 nc.16: 125-127 0 '62. (MIRA 17:10.

1. Iz kliniki obshchey khirurgii (zav. - doktor med. nauk Yu. M. Grlenko, lechebnogo fakul'teta Khar'kovskogo meditsinskogo instituta (rektor - dotsent B.A. Zadorozhnyy) na baze ll-y Khar'kovskoy gorodskoy klini-cheskoy bol'nitsy (glavnyy vrach - Ye.D. Guzhel).

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORLENKCV, Ye. K.

Min Higher Education UJSR. Moscow Order of Lenin and Order of Lator Red Banner Higher Technical School imeni Pauman. Moscow 1956

ORLENKOV, Ye. K.:- "The effect of the quality of weld penetration on the strength and plasticity of butt joints in automatic flux welding." Min Higher Education USER. Moscow Order of Lenin and Order of labor Hed Banner Higher Technica. School imeni Bauman. Moscow, 1956. (Dissertation for the Degree of Mandidate in Technical Compani)

SC: Knizhnaya Letoris', No. 2', 1:56

4. 1. CKMAKEL

137-58-3-5198

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 106 (USSR)

Orlenkov, Ye. K. AUTHOR:

Vibration Strength of Welded Butt Joints with Defects Due to TITLE:

Non-fusion (Vibratsionnaya prochnost' svarnykh stykovykh

soyedineniy s neprovarom)

V sb.: Prochnost' i avtomatizatsiya svarki (MVTU, 71), PERIODICAL

Mashgiz, 1957, pp 39-45

The σ_{ω} of butt joints of low-carbon steel welded on both sides and containing flaws caused by various degrees of incomplete ABSTRACT

penetration was compared with the 5w of identical, but defectfree joints. A limited of was determined for each series of specimens on the basis of 2x106 cycles with alternating tension and pure bending alternating in sense. It is shown that under both types of vibrational loading a welded seam obtained by automatic two-sided welding with flux exhibits greater strength than the parent metal. In all specimens exhibiting complete penetration and free of other defects of the seam, the rupture oc-

curred in the parent metal far from the welded region.

Under a pure bending load the presence of up to 25 percent of Card 1/2

137-58-3-5198

Vibration Strength of Welded Butt Joints (cont.)

incomplete penetration has no effect whatsoever on the vibrational strength of the weld. At 40 percent incomplete penetration the $O_{\mathbf{W}}$ of the welded joint is 7 percent lower than that of the parent metal. A considerable decrease in $O_{\mathbf{W}}(29 \text{ percent})$ was observed at approximately 50 percent of incomplete penetration. Under a tensile load, incomplete penetration in welded butt joints sharply reduces their $O_{\mathbf{W}}$. Even the presence of 5-6 percent of incomplete penetration results in a 30 percent decrease in $O_{\mathbf{W}}$. Not unlike a sharp notch, the effect of stress concentrations created by incomplete penetration is more pronounced at low stresses which approach the $O_{\mathbf{W}}$. Parent metal with transverse fibers exhibits a $O_{\mathbf{W}}$ which is 14 percent lower than that of a metal with longitudinal fibers.

N. T.

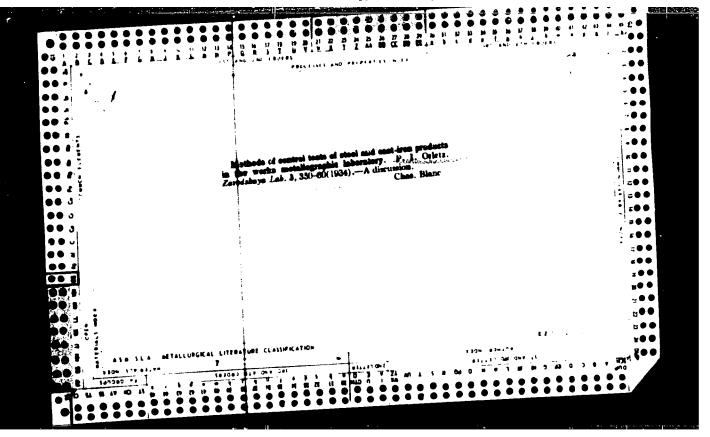
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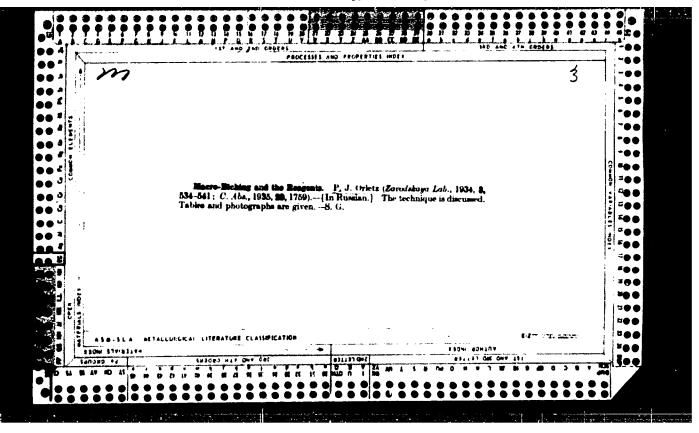
GHUZEA, Stanielaw: DEGMMEI, Wojciech: ORDINEA, Trema

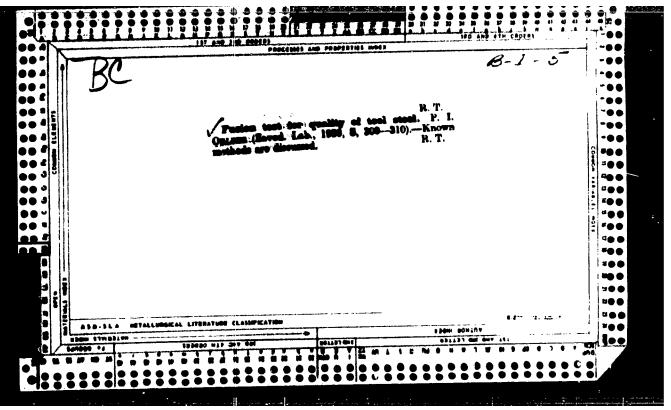
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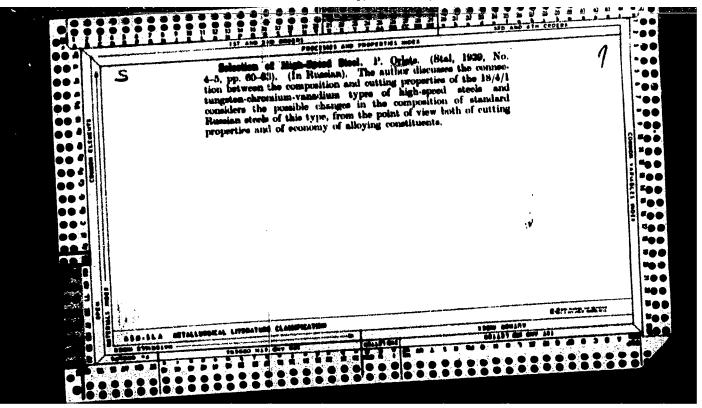
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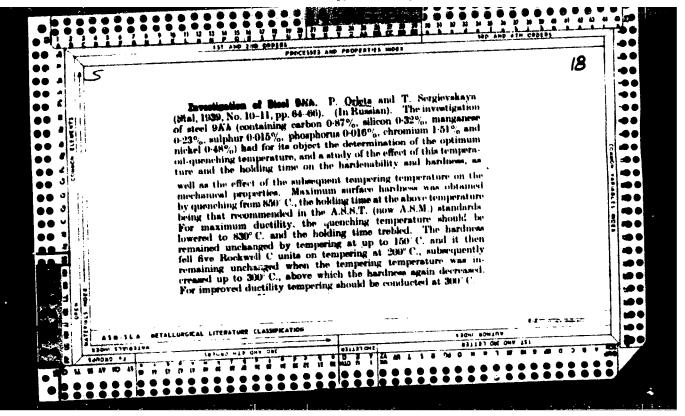
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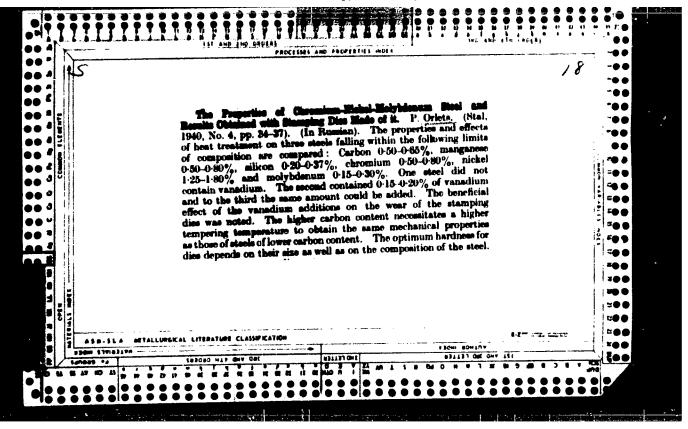


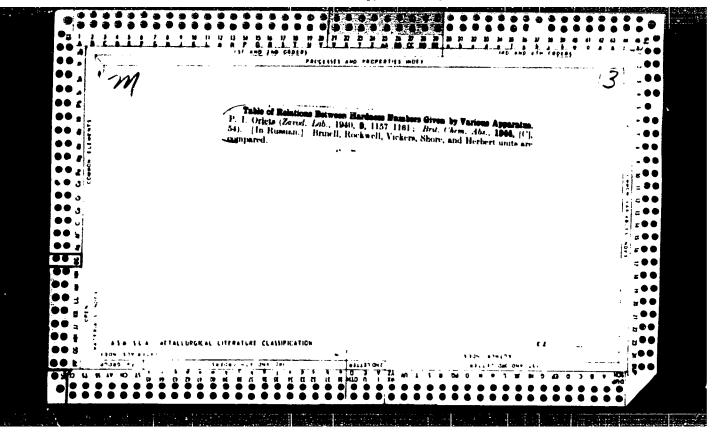












MARGOLIN, G.I., inshener; DROZDOVSKIY, B.A., inshener; ORLETS, P.I., inshener.

Junction lines in shaped steel castings. Stal' 7 no.1:58-62
'47. (MIRA 9:1)

1.Kirovskiy savod. (Steel castings)

L 17666-66

ACC MR: AP6009378

SOURCE CODE: HU/0012/65/013/001/0003/0006

AUTHOR: Mandi, Ander (Doctor; Dector of technical sciences; Specialist); Orley, Denes-Veriei, D. (Specialist); Borks, Jossef-Borks, Y. (Staff scientist)

ORG: none

13_

TITIE: Basic problems in designing autodynes

SOURCE: Heres es automatika, v. 13, no. 1, 1965, 3-6

TOPIC TAGS: radio receiver, radio equipment

ABSTRACT: Some considerations involved in the designing of autodynes were discussed based on the authors' experience in this field. Formulae were derived for the calculation of the maximum output of direct-current units, single-armature converters, and autodynes proper. Other design considerations discussed include the number of poles for the desired output, the number of phases, and the tension ratio. Some specific parameters for various output ranges in the medium-output class were presented. Orig. art. has: 3 figures, 17 formulas, and 2 tables. [JPRS]

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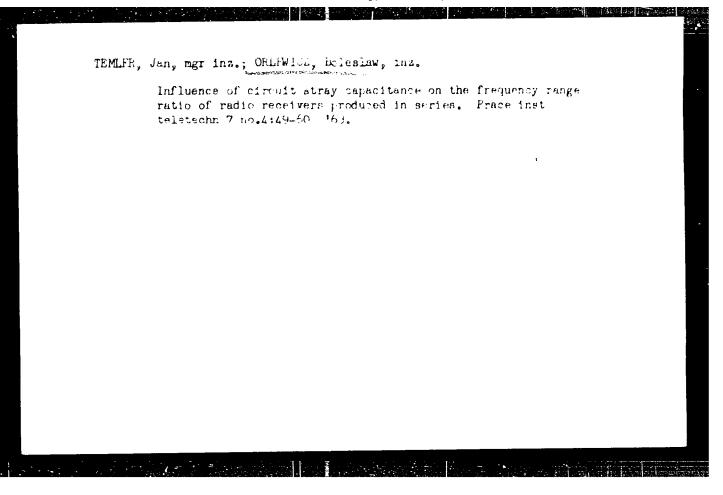
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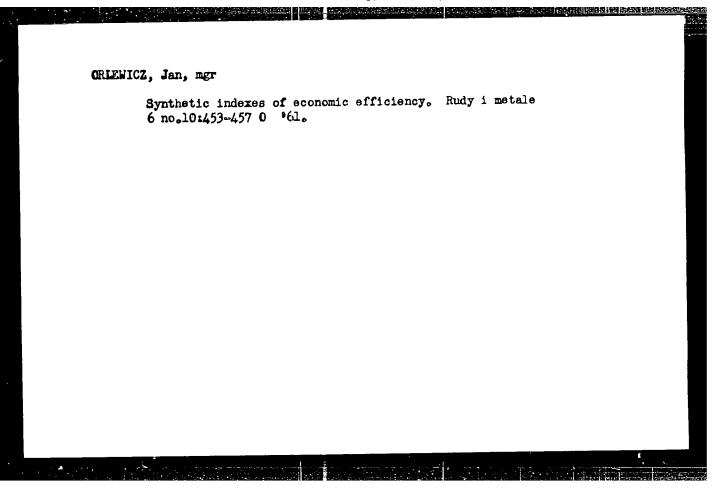
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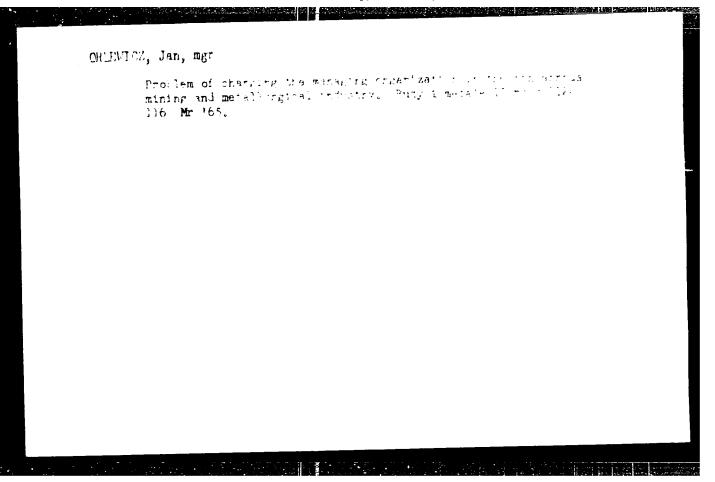
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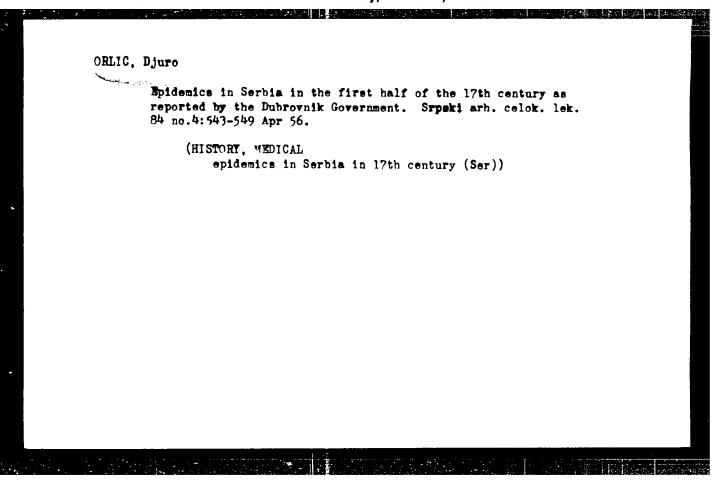
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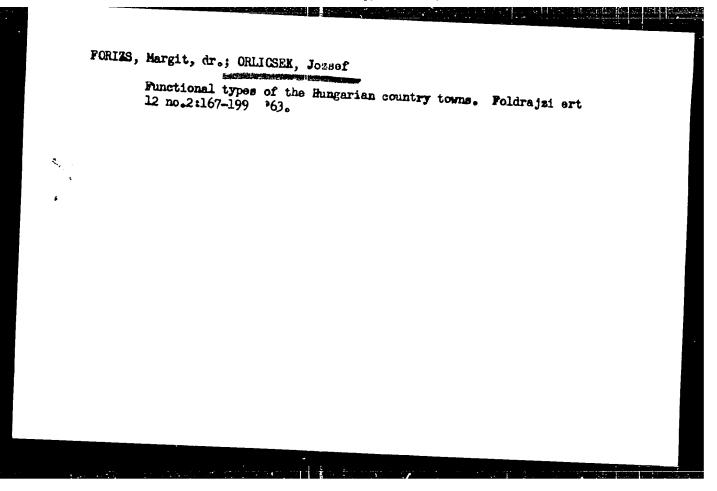
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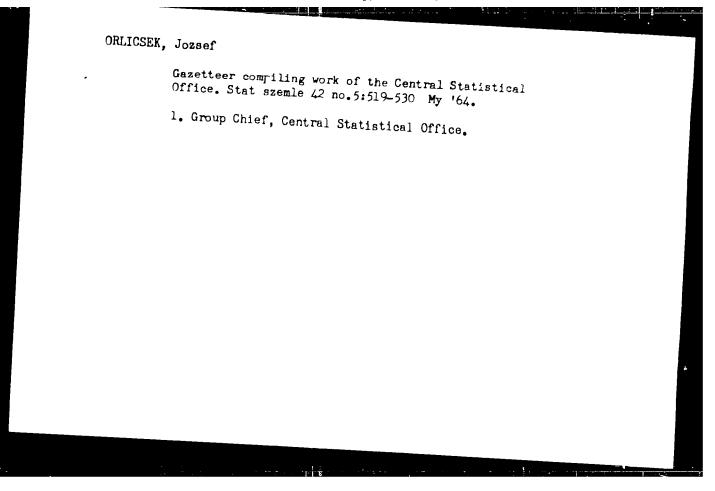
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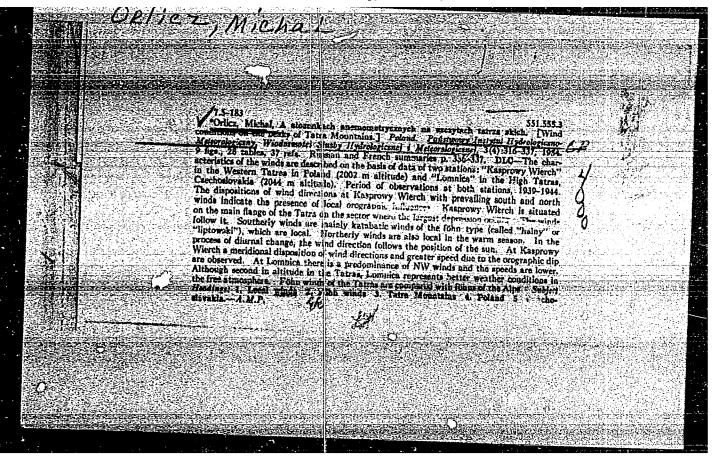
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