

SPENGLER, I.Ye., kand. tekhn. nauk

Some problems in improving reliability and durability of steel
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ANTIMONOV, N.A.; SPENGLER, O.A., red.

[Mass snow gauging surveys] Massovye snegomernye s"emki. Leningrad,
Gidrometeor.izd-vo, 1950. 45 p. (MIRA 12:9)

(Snow)

(Surveying)

Spengler, O.A.
MAKAREVICH, T.N., kandidat geograficheskikh nauk; SPENGLER, O.A., kandidat
geograficheskikh nauk, redaktor; SHATILINA, M.K., redaktor;
FLAUM, M.Ya., redaktor

[Methodology of long-term forecasts of the freezing rivers in
northwestern U.S.S.R.] Metodika dolgoerochnogo prognoza zamersaniia
rek Severo-zapada SSSR. Leningrad, Gidrometeor. izd-vo, 1956.
74 p. (Leningrad, Gosudarstvennyi gidrologicheskii institut.
Trudy no.58 (112)) (MIRA 10:7)
(Ice on rivers, lakes, etc.)

CHERKAVSKIY, Sergey Konstantinovich; SPENGLER, O.A., otvetstvennyy redaktor;
YASNOGORODSKAYA, M.M., redaktor; FLAUM, M.Ya., tekhnicheskiy redaktor.

[Hydrology for observers] Gidrologiya dlia nabludatelei. Leningrad,
Gidrometeor.izd-vo, 1956. 159 p. (MIRA 10:4)
(Hydrology)

KUZ'MIN, Prokofiy Pavlovich; SPENGLER, O.A., kand.geogr.nauk, otvetstvennyy red.; STRUZER, L.R., kand.fiz.-mat.nauk, otvetstvennyy red.; GROSMAN, R.V., red.; VLADIMIROV, O.G., tekhn.red.

[Physical properties of the snow cover] Fizicheskie svoistva snezhnogo pokrova. Leningrad, Gidrometeor.isd-vo, 1957. 178 p.
(MIRA 10:12)

(Snow)

URYVAYEV, V.A., kand.tekhn.nauk, otv.red.; ALEKIN, O.A., red.; VELIKANOV,
M.A., red.; BLIZNYAK, Ye.V., red.; BORSUK, O.N., kand.geogr.nauk,
red.; DAVYDOV, L.K., red.; DOMANITSKIY, A.P., red.; KALININ, G.P.,
red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.; MANOIM, L.P., red.;
MENKEL', M.F., red.; ORLOV, B.P., red.; POPOV, I.V., red.; PROSKU-
RYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A., red.;
CHEBOTAREV, A.I., red.; CHERKAVSKIY, S.K., red.; GROSSMAN, R.V., red.;
SERGEYEV, A.N., tekhn.red.

[Proceedings of the third All-Union Hydrological Congress] Vsesoiuznyi
gidrologicheskii s"ezd. 3rd, Leningrad, 1957. Trudy. Leningrad, gidro-
meteor. izd-vo. Vol.1 [General information, decisions, and papers
presented in plenary sessions] Obshchie svedeniia, resheniia i ple-
narnye doklady. 1958. 242 p. (MIRA 12:1)
(Hydrology--Congresses)

SPENGLER, Oleg Aleksandrovich; SPENGLER, Yekaterina Nikolayevna;
PROTOPOPOV, V.S., red.; VLADIMIROV, O.G., tekhn.red.

[Hydrologic dictionary in foreign languages] Gidrologi-
cheskii slovar' na inostrannykh iazykakh. Leningrad, Gidro-
meteor.isd-vo, 1959. 214 p. (MIRA 13:3)
(Hydrology--Dictionaries) (Russian language--Dictionaries--Polyglot)
(Dictionaries, Polyglot)

SPENGLER, O.A.

3(4.7)

RUSSIAN BOOK EXHIBITION

227/244D

Vsesoyuznyy gidrologicheskyy sbornik, 3rd, Leningrad, 1957.
Trudy...t. III: Sektsiya gidrologicheskikh (Transactions of the 3rd All-Union Hydrological Conference. V. 3: Hydrophysics Section).
Leningrad, Gidrometizdat, 1956. 470 p. Errata slip inserted.
2,000 copies printed.

Sponsoring Agency: Glavnyye upravleniye gidrometeorologicheskoy sluzhby pri Sovetskom Ministre SSSR.

Resp. Ed.: V.A. Uryvayev; Ed.: V.B. Protodopov; Tech. Ed.: M.I. Bryulina.

PURPOSE: This work is intended for meteorologists, hydrologists, and hydrophysicists, particularly those engaged in the study of snow and ice and evaporation processes.

COVERAGE: This book contains papers on hydrophysics which were presented and discussed at the Third All-Union Hydrological Conference in Leningrad, October 1957. The Conference published 10 volumes on various aspects of hydrology of which this is number 3. The editorial board in charge of this series includes: V.A. Uryvayev (Chairman), O.A. Alekin, G.V. Biliznyak (deceased), O.M. Borsak, M.A. Velikanov, L.K. Baryshnikov, A.P. Domantitskiy, G.P. Kalinin, S.M. Kritskiy, B.I. Kudachin, I.P. Manolov, M.P. Menkel', B.P. Orlov, I.V. Popov, A.N. Prokuryakov, D.L. Sokolovskiy, O.A. Spengler, A.I. Chebotarev, and S.K. Cherkavskiy. This volume is divided into 2 sections, the first contains reports from the authors for the study of evaporation processes, and the second contains reports from the snow and ice subsection. References accompany each article.

Alekin, G.V. [Candidate of Physical and Mathematical Sciences] Study of the Snow Melting Process Under the Conditions of Intersected and Wooded Area 222

Spengler, O.A. [Candidate of Geographical Sciences, 001 Leningrad] Certain Characteristics of the Snow Cover Distribution in Northern Kazakhstan 231

Grishin, I.S. [Junior Scientific Worker] Special Features in the Distribution of the Snow Cover in Don River Basin 234

Ivanov, I.V. [deceased] [Candidate of Geographical Sciences, Tait Moscow] Basic Features of Snow Cover in European USSR (according to the Data of the Snow Survey) 241

Plinskii, M.E. [Docent, Candidate of Technical Sciences] Problems Arising in the Study of the Ice Regime of Water Reservoirs in Relation to the Construction of Hydraulic Engineering Harbor Installations 243

Pydin, P.I. [Doctor of Technical Sciences, Laboratory of Limnology, Leningrad] Development of Certain Problems in the Field of Ice Conditions in Bodies of Water 246

Bulatov, S.M. [Junior Scientific Worker, Tait Moscow] The Effect of Water Conditions in Winter on the Ice Regimen and the Ice Break-up of Rivers 253

Shulyakovskiy, L.G. [Candidate of Technical Sciences, Tait Moscow] Computing the Approximate Thickness of Ice on Rivers With Natural Flow Conditions and on Rivers With Regulated Discharge 258

Shulyakovskiy, L.G. Computing the Onset of River Freeze-up Without Observation Data for Past Years 266

Card 8/14

GUREVICH, M.I., kand.geogr.nauk; POPOV, I.V., kand.geogr.nauk; SPENGLER,
O.A., kand.geogr.nauk; URYVAYEV, V.A., otv.red.; SOKOLOVSKIY,
D.L., prof., doktor tekhn.nauk, red.toma; CHEBOTAREV, A.I.,
dotsent, kand.tekhn.nauk, red.toma; KALININ, G.P., prof., doktor
geogr.nauk, red.toma; GROSMAN, R.V., red.; SHATILINA, M.K., red.;
BRAYNINA, M.I., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress] Trudy
III Vsesoiuznogo gidrologicheskogo s"ezda. Leningrad, Gidrometeor.
izd-vo. Vol.2. [Section of runoff calculations and forecasts]
Sektisia raschetov i prognozov stoka. 1959.. 767 p. (MIRA 13:2)

1. Vsesoyuznyy gidrologicheskii s"yezd. 3d. Leningrad, 1959.
(Hydrology--Congresses) (Runoff)

KUZ'MIN, Prokofiy Pavlovich; SPENGLER, O.A., otv.red.; PROTOPOPOV,
V.S., red.; VLADIMIROV, O.G., tekhn.red.

[Formation of the snow cover and methods of determining the
snow supply] Formirovanie snezhnogo pokrova i metody oprede-
leniia snegozapasov. Leningrad, Gidrometeor.izd-vo, 1960.
169 p. (MIRA 13:7)

(Snow surveys)

KORNILOVA, M.A., bibliograf; SPENGLER, O.A., kand.geograf.nauk, red.;
BRAYNINA, M.I., tekhn.red.

[Index of Soviet literature on land hydrology. 1945-1950] Ukazatel' sovetskoi literatury po gidrologii suhi. 1945-1950 gg.
Leningrad, Gidrometeor.izd-vo, 1960. 210 p. (MIRA 14:4)

1. Leningrad. Gosudarstvennyy gidrologicheskiy institut.
(Bibliography--Hydrology)

FEDOROV, N.N., kand.tekhn.nauk; POPOV, I.V., kand.geogr.nauk; BORSUK, O.N.,
kand.geogr.nauk; GRUSHEVSKIY, M.S., kand.tekhn.nauk; VELIKANOV,
M.A., prof., doktor tekhn.nauk, red.(Moskva); URYVAYEV, V.A., otv.
red.; ALEKIN, O.A., red.; BLIZNYAK, Ye.V., red. [deceased];
BORSUK, O.N., red.; DAVYDOV, L.K., red.; DOMANITSKIY, A.P., red.;
KALININ, G.P., red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.;
MANOIM, L.F., red.; MENKEL', M.P., red.; ORLOV, B.P., red.;
PROSKURYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A.,
red.; CHEBOTAREV, A.I., red.; CHERKOVSKIY, S.K., red.; SHATILINA,
M.K., red.; VLADIMIROV, O.G., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress] Trudy
III Vsesoiuznogo gidrologicheskogo s"ezda. Vol.5. [Section of
Hydrodynamics and River-Bed Evolution] Seksia gidrodinamiki i
ruslovykh protsessov. 1960. 421 p.

(MIRA 13:11)

1. Vsesoyuznyy gidrologicheskii s"ezd. 3d, Leningrad, 1957.
2. Gosudarstvennyy gidrologicheskii institut (for Fedorov, Popov).
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(Hydrology--Congresses)

KUZIN, Pavel Sergeyevich; SPENGLER, O.A., kand.geogr.nauk, otv.red.;
SHATILINA, M.K., red.; VLADIMIROV, O.G., tekhn.red.

[Classification of rivers and division of the U.S.S.R. into
hydrological regions] Klassifikatsiya rek i gidrologicheskoe
raionirovanie SSSR. Leningrad, Gidrometeor.izd-vo, 1960.
454 p. (MIRA 13:8)

(Rivers)

KORNILOVA, M.A.; SPENGLER, O.A., red.

[Bibliography of Soviet literature on continental hydrology, 1951-1955] Ukazatel' sovetskoi literatury po gidrologii sushy, 1951-1955 gg. Leningrad, Gidrometeor. izd-vo, 1962. 339 p. (MIRA 16:10)

1. Leningrad. Gosudarstvennyy gidrologicheskiy institut.
(Bibliography—Hydrology)

ASTAPOV, Sergey Vasil'yevich, professor; ~~SPENGLER~~, Valentina Vasil'yevna;
SHKLYAREVSKIY, A.I., redaktor; PERESYPKINA, Z.D., tekhnicheskiy
redaktor; ARISTAKHISOVA, S.L., tekhnicheskiy redaktor

[Prevention and control of salinity and sqamping in irrigated lands]
Preduprezhdenie i bor'ba s zasoleniem i zabolachivaniem oroshaemykh
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(Salinity) (Swamps)

[illegible]

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SPENGLER, Oleg Aleksandrovich; SPENGLER, Yekaterina Nikolayevna;
PROTOPOPOV, V.S., red.; VEDIMIROV, O.G., tekhn.red.

[Hydrologic dictionary in foreign languages] Gidrologi-
cheskii slovar' na inostrannykh iazykakh. Leningrad, Gidro-
meteor.izd-vo, 1959. 214 p. (MIRA 13:3)
(Hydrology--Dictionaries) (Russian language--Dictionaries--Polyglot)
(Dictionaries, Polyglot)

ALEKSEYEV, V.N.; VINOGRADOV, A.N.; kand.ekon.nauk; VLADIMIROV, V.A.; inzh.;
 KOCHETOV, I.V.. prof.; doktor ekon.nauk; MINAKOV, P.P.; POTAPOV,
 I.A.; ROMANOV, M.P., dotsent, kand.ekon.nauk; SPINGLER, Ye.H.,
 kand.ekon.nauk; SHITOV, A.V.; SHUKHATOVICH, I.M.; YAKUBOV, L.S.;
 IVLIYEV, I.V., red.; KRISTAL', L.I., red.; KOCHETOV, I.V., prof.,
 doktor ekon.nauk, nauchnyy red.; IVANOV, A.P., nauchnyy red.;
 BOBROVA, Ye.H., tekhn.red.

[Statistics and bookkeeping in railroad transportation; manual]
 Statistika i bukhgalterskii uchët na zheleznodorozhnom transporte;
 spravochnik. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va
 putei soobshcheniia, 1960. 485 p.
 (Railroads--Accounts, bookkeeping, etc.)
 (Railroads--Statistics)
 (MIRA 14:3)

SPENIK, M.

CZECH

Electrophoretic investigations of the serum proteins in rabbits during hyperimmunization against swine erysipelas. A. Sokol, A. Milár, J. Rosocha, M. Spenik, and D. Mikla (Veterinár. fak. Košice, Czech.). *Veterinársky časopis* 3, 121-32(1954).—The reaction of rabbits to successive, periodic injections of the bacilli was followed by microelectrophoresis of serum proteins on paper. The 1st week brought a significant rise in the α -globulin fraction (I). During the 2nd week I returned to normal values and a striking rise of the γ -globulin fraction (II) was observed. The albumins showed from the beginning a tendency to fall which became especially significant at the time of rise of II.

L. J. Urbáček

SPERANJA, Gh.

NAASTASE, Gh.; SPERANJA, Gh.; CARNIOL, M.; LAZAR, M.; CAHANE, G.; MARCULESCU, D.

Investigations on certain seric anti-hyaluronidases during cancer of the skin. Rumanian M. Rev. 1 no.2:73-77 Apr-June 57.

(SKIN NEOPLASMS, blood in
hyaluronidase antag.)

(HYALURONIDASE, in blood
antag. in cancer of skin)

G. SPERANSCHI

"Great care for mother and child" Tr. from the Russian p.94 (ANALELE
ROMANEO-SOVIETICE. SERIA PEDIATRIE Vol. 6, No. 3, May/June 1953 Bucuresti,
Rumania)

SO: East European, LC, No 12, Vol. 2, Dec. 1953

SOV/ 49-58-11-8/18

AUTHORS: Kolesnikov, A. G. and Speranskaya, A. A.

TITLE: Apparatus for Determination of Heat Flux (Pribor dlya opredeleniya teplovykh potokov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 11, pp 1351-1359 (USSR)

ABSTRACT: The apparatus described enables thermal flux (and hence conductivity) to be determined by means of temperature measurements on a slab of the material under investigation to which a sinusoidally varying heat source is applied. The temperature t at a depth z in the slab is made to vary according to:

$$t = t_0 \cos \omega \tau \quad (1)$$

where τ is time and $\omega = 2\pi/T$, and where T is the period. The principle of the method is to measure the heat fluxes Q_1 and Q_2 at depths z and $z + \delta$ respectively. These heat fluxes are given by the following expressions:

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SOV/ 49-58-11-8/18

Apparatus for Determination of Heat Flux

$$Q_1 = t_0 \sqrt{\frac{2\pi}{T}} \sqrt{\lambda c \rho} \exp \left(-\sqrt{\frac{\pi}{aT}} z \right) \cos \left\{ \frac{2\pi\tau}{T} - \sqrt{\frac{\pi}{aT}} z + \frac{\pi}{4} \right\} \quad (2)$$

$$Q_2 = t_0 \sqrt{\frac{2\pi}{T}} \sqrt{\lambda c \rho} \exp \left(-\sqrt{\frac{\pi}{aT}} z + \delta \right) \cos \left\{ \frac{2\pi\tau}{T} - \sqrt{\frac{\pi}{aT}} z + \delta + \frac{\pi}{4} \right\} \quad (3)$$

Here λ is the coefficient of thermal conductivity (to be determined), ρ is density and the other symbols have their standard significance. In a typical experimental arrangement z would be about 30 cm and δ some 25 or 30 mm. The heat fluxes are measured in a suitably constructed and calibrated calorimeter in which the temperature difference across the slab is measured by means of a thermopile. Details of the construction of the calorimeter are illustrated diagrammatically and there is also a photograph giving an overall view. A section is devoted to describing the calibration of the apparatus, and another section to discussing experimental errors. The calibration is

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SOV/ 49-58-11-8/18

Apparatus for Determination of Heat Flux

effected by measurements on a sample of known thermal conductivity. Experimental errors are kept to a minimum by suitable insulation and thermostatically controlled cooling of the surfaces; end effects are eliminated by a differential technique. The apparatus provides a simple, quick and reasonably accurate (about 1%) method of measuring heat flux across thin layers of poorly conducting materials.

There are 8 figures and 1 reference, which is Soviet.

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

SUBMITTED: February 27, 1957

Card 3/3

SOV/ 49-58-12-5/17

AUTHORS: Kolesnikov, A. G. and Speranskaya, A. A.

TITLE: Diurnal Variation of Temperature of Water in Cisterns and Rate of Thawing of the Lowest Surface of the Ice Cover in the Spring (Sutochnyy khod temperatury vody i skorost' staivaniya ledyanogo pokrova snizu na vodokhranilishchakh v vesenniy period)

PERIODICAL: Izvestiya akademii nauk SSSR, Seriya geofizicheskaya, 1958, Nr 12, pp 1463-1469 (USSR)

ABSTRACT: In order that the investigation of water temperature should give the true results, the meteorological data affecting its diurnal variations should be known. The absorption of solar radiation by the ice cover can be defined from the expression Eq.(1) (Ref.1). Fig.1 shows this absorption as a rate of 1.6 m^{-1} . The decrease of solar radiation with depth can be defined as the function (2), where $I(\tau)$ - the total thermal effect of the solar spectrum, A - albedo of ice cover, p - coefficient showing which part of the solar energy reaches a given depth, β - total coefficient of decrease

Card 1/4

SOV/ 49-58-12-5/17

Diurnal Variation of Temperature of Water in Cisterns and Rate of Thawing of the Lowest Surface of the Ice Cover in the Spring

of solar energy with depth, τ - time. The total thermal effect of the solar spectrum can be defined as the function (3), while the rate of heat conduction in water can be calculated from Eq.(4) where t - deviation of water temperature from its mean, k - coefficient of turbulent heat exchange, $\omega = 2\pi/T$, T - period (1 day), c and ρ - heat capacity and density of water. When the conditions (5) and (6) are applied, the solution of Eq.(4) will take the form (7). The Eq.(8) for the determination of $U(\tau)$ can be found when the Eq.(7) is substituted for Eq.(4). Then the function $V(z, \tau)$ will describe the Eq.(9) if the conditions (10) are satisfied. The solution of the Eq.(9) will take the form Eq.(11). By substituting Eq.(11) and Eq.(8) for Eq.(7), the expression (12) is found, which describes the deviation of water temperature from its mean value. In order to compare the theoretical calculations with the experimental data, the Eq.(12) should be written in the form Eqs.(13) and (14). To determine the various values of the expression (13) a series of experimentations was carried out. Some results are shown in the form of graphs representing the data taken from a water

Card 2/4

SOV/ 49-58-12-5/17

Diurnal Variation of Temperature of Water in Cisterns and Rate of Thawing of the Lowest Surface of the Ice Cover in the Spring

cistern during the night of April 11-12, 1954. Fig.2 shows the total solar radiation inside the ice cover (I) and reflected from its surface (II). Fig.3 shows the heat exchange at the water-ice surface during the same period. The distribution of the temperature in the upper 2 m of water layer is shown in Fig.4, where 1 - temperature calculated from Eq.(13), 2 - the measured temperature. The Eq.(15) can be used for determination of the maximum value of the rate of thawing below the ice cover, where γ - latent heat of thawing ice, ρ_1 - ice density, ξ - thickness of ice, λ_1 - heat conductivity of ice, t_1 - ice temperature. When the temperature of ice is near zero degrees, the expression (16) can be used. This expression, however, can be used only in the case of a rapid thaw at the rate of 5.5 mm per hour,

Card 3/4

SOV/ 49-58-12-5/17

Diurnal Variation of Temperature of Water in Cisterns and Rate of Thawing of the Lowest Surface of the Ice Cover in the Spring

or higher. There are 4 figures and 4 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V.

Lomonosova (Moscow State University, imeni M. V. Lomonosov)

SUBMITTED: February 27, 1957.

Card 4/4

SPIRANSKAYA, A. A.

"Turbulent Processes in the Subice Layer,"
report to be submitted for the Intl. Oceanographic Cong. New York City,
31 Aug - 11 Sep 1959.

(Faculty of the Physics of the Sea, Moscow State University)

SPERANSKAYA, A.A.

Rise of water temperature under the ice of Ucha Reservoir in
spring. Trudy Gidrobiel. Trudy Gidrobiel. ob-va 9:29-37 '59.
(MIRA 12:9)

1. Kafedra fiziki merya i vod sushi Moskovskogo gosudarstvennogo
universiteta.

(Ucha Reservoir--Water--Temperature)

SPERANSKAYA, A.A.

Apparatus for measuring low velocities of currents running through
bodies of water (thermohydrometer). Trudy Gidrobiol. ob-va 9:370-374
'59. (MIRA 12:9)

1. Kafedra fiziki morya i vod sushi Moskovskogo gosudarstvennogo
universiteta.

(Steam measurements)

SPERANSKAYA, A.A.

Turbulent exchange in the surface water layer beneath the ice
covering a body of water. Trudy Okean. kom. 10 no.1:147-151 '60.
(MIRA 14:6)

1. Kafedra fiziki morya i vod sushi Moskovskogo gosudarstvennogo
universiteta.

(Baikal, Lake--Hydrology)
(Ice on rivers, lakes, etc.)
(Turbulence)

SPERANSKAYA, A.A.; KHAYDAROV, I.Sh.

Polarograph for determining the oxygen content in fresh-water lakes
and rivers. Vest. Mosk. un. Ser. 3:Fiz., astron. 18 no.5:24-27
S-0 '63. (MIRA 16:10)

1. Kafedra fiziki morya i vod sushi Moskovskogo gosudarstvennogo
universiteta.

L 01037-67 EWT(1)/EWP(m) WW/GD

ACC NR: AT6012413

SOURCE CODE: UR/0000/65/000/000/0077/0081

AUTHOR: Speranskaya, A. A.; Man'kovskiy, V. I.

ORG: none

TITLE: Electrical contactless current meter for measuring speed of direction of flow

SOURCE: Voprosy gidrologii (Problems of hydrology), no. 2, Moscow, Izd-vo Mosk. univ., 1965, 77-81

TOPIC TAGS: telemetry, current meter, hydrology

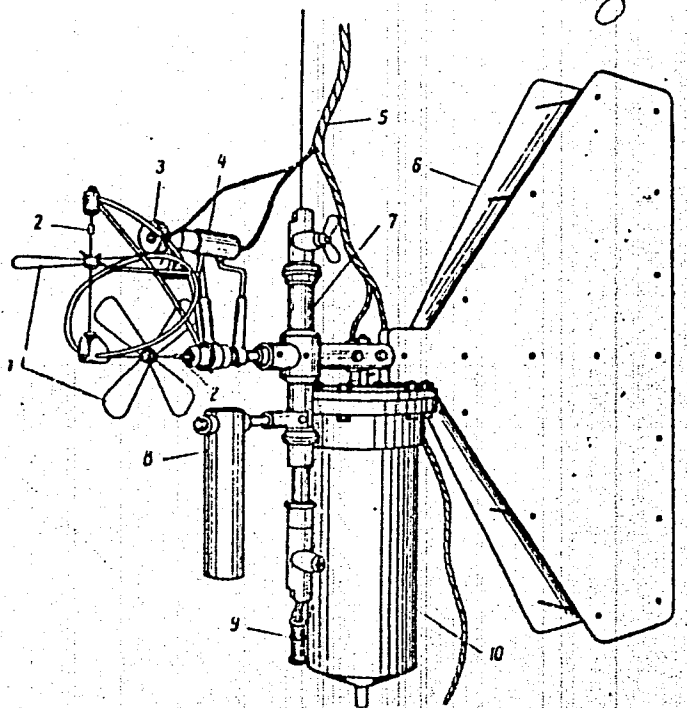
ABSTRACT: A new current meter is described which measures both horizontal and vertical components of a water flow starting with 0.4-0.2 cm/sec and also the direction of flow with a sensitivity of 3° per 1 mm scale. Two 4-blade plexiglas wheels 1 (see figure) carry small mirrors 2 on their stainless-steel axes. A d-c bridge circuit contains two photoresistors 3 which are momentarily illuminated by the mirrors. The rpm signals are recorded by an oscillograph or a galvanograph. Other parts are: 4 - lamp; 5 - cable; 6 - "tail"; 7 - swivel; 8 - counterweight; 9 - thermometer; 10 - direction-of-flow unit. The latter unit is based on a magnetic

Card 1/2

ACC NR: AT6012413

needle and a photoelectric device that measures the angle between the needle and the tail unit. The new current meter was tested during the winter of 1958, on the Baykal Lake, Listvenichnaya Bay, where the lake feeds into the Angara River (some details of the hydrological survey involved are given). Orig. art. has: 4 figures.

SUB CODE: 09 / SUBM DATE: none



awm

Card 2/2

-SPERANSKAYA, A.M.; LEBEDIKOVA, Ye.I.; KLIMENTOVSKAYA, G.I.; YASHISH, L.B.

Role of enteropathogenic intestinal bacilli in the etiology of
intestinal diseases in infants. Lab. delo [7] no.4:59-60 Ap '61.
(MIRA 14:3)

1. Dorozhnaya sanitarno-epidemiologicheskaya stantsiya Moskovsko-
Ryazanskoy zheleznoy dorogi.
(ESCHERICHIA COLI)

SPERANSKAYA, G.I.; VINOKUROV, M.A., prof., rukovoditel' raboty

Group composition of the Chernozem humus in the Tatar A.S.S.R.
Nauch.dokl.vys.shkoly; biol.nauki no.4:201-202 '64.

(MIRA 18:10)

1. Rekomendovana kafedroy pochvovedeniya Kazanskogo gosudarstvennogo
universiteta im. V.I.Ul'yanova-Lenina.

21

ca

Toughness of coke and theory of interaction between coals in coke-oven mixtures as a basis for increasing raw material supplies in the coke industry. L. M. Sapozhnikov and G. V. Sprenskaya. *Bull. Acad. Sci. U.R.S.S. Classe Sci. Ser. 1947*, No. 3, 323-340; *Dept. Sci. Ind. Research (Brit.), Fuel Abstracts 2*, No. 6, 26(1947).—A theory is proposed that the thermal stability of coke, as measured by the extent of cracking when it is subjected to high temp., is a function of the interaction between the coals in coking mixts. Use of the thermal stability of coke, rather than drum tests, as an index of quality, is recommended. This would broaden the range of coals suitable for production of metallurgical coke. M. F. R.

ASME-ISA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON VARIABLES INDEX

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989900

SPERANSKAYA, G. V.

USSR.

Quality of coke and means for its improvement and for widening the choice of coking coals. L. M. Sapozhnikov and G. V. Speranskaya. *Izvestiya Vuzov. Gornaya Tekhnologiya* (1960) No. 2, 8-31 (1960).—The process of coking was characterized by studying the progressive development of cracks during coking with the rise in the temp. of the charge and with time. The nature of the cracks sets, the crushing strength of the coke and its size in the charge of the blast furnace, inside the slag formation zone, i.e. above the hearth. The size of the coke above the hearth is sufficiently closely detd. by a simple method described in the article. The new method of evaluation of the coke quality was tested over many months at the East and South Russian metallurgical plants and compared with the operation log of the blast furnaces. Parallel results were recorded from the daily logs of nonuniformity of blast furnace operations with the daily index of the coke quality as detd. by this method. The fluctuations of the index are frequently observed on consecutive days with parallel difficulties in the blast furnace operations. *Sundgren drum*

tests fail to register such variations in the coke quality and remain constant. The method was applied to the widening of the choice of coal for coking, by blending binary and ternary coal mixes, including a no. of high-gas Kuzbass coals. The results are expressed in triangular diagrams which indicate mixes with permanent and fluctuating indexes of coke quality. Results of the tests were applied to coking on an industrial scale at specified coking conditions. The results are more sensitive and dependable for blast-furnace control than are drum shatter tests.

W. M. Sternberg

gmy

LFI

SPERANSKAYA, G.V.

✓ Sapozhnikov, L. M., and Speranskaya, G. V.: Issledovanie sovremennykh printsipov koksovaniya uglei (Research on Contemporary Principles of Coal Coking). Moscow: Izdatel. Akad. Nauk S.S.S.R. 1953. 63 pp.

FU

①

STEFANSKAYA, G.V.
SAPOZHNIKOV, L.M.; SPERANSKAYA, G.V.; CHERNYSHEV, A.B., redaktor; KUDASHEV,
A.I., redaktor; GRUKOVA, ^{technichesk} tekhnicheskiiy redaktor.

Study of modern principle of coking. Akademiya nauk SSSR. Institut
goriuchikh iskopaemykh. Trudy 4 no.1:5-63 '53. [Microfilm].

(MIRA 8:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Sapozhnikov, Cherny-
shev).

(Coal--Carbonization) (Coke)

SPERANSKAYA, G.V.; TSYNOVNIKOV, A.S.; STROMBERG, B.I.

Experimental coking of coals enriched by centrifugal separation.
Koks i khim.no.4:8-11 '56. (MIRA 9:9)

1. Institut goryuchikh iskopayemykh Akademii nauk SSSR (for Speranskaya). 2. Vostochnyy uglekhimicheskiy institut (for Tsyonnikov). 3. Ukrainskiy uglekhimicheskiy institut (for Stromberg).
(Coal--Carbonization)

SPERANSKAYA, G.V., kandidat tekhnicheskikh nauk; SKVORTSOV, Yu.M.

New coking method for producing metallurgical fuel from coals
with low caking power of the Cherekhovo deposits. Koks i khim.
no.7:3-6 '56. (MLA 9:12)

1. Institut goryuchikh iskopayemykh Akademii nauk SSSR.
(Coal--Carbonization)

SHUBEKO, P., kandidat tekhnicheskikh nauk; SPERANSKAYA, G., inzhener.

Improved coal. Tekh.mol.24 no.1/2:35-37 Ja-F '56. (MIRA 9:7)
(Coal preparation)

SPERANSKAYA, G.V.

"Contemporary Ideas on the Theory of Coking Coals,"
paper submitted for the 1st National Congress, Czechoslovak Scientific Technical
Society for Fuel Utilization, Karlovy Vary. Czechoslovakia, 12-17 May 58.

SPERANSKAYA, G.V.; SKVORTSOV, Yu.M.

Use of a new coking method for the preparation of metallurgical
fuel from Cherekhovo deposit low-coking coals. Trudy IGI 10:51-59
'59. (MIRA 12:12)

(Cherekhovo--Coal) (Coke)

SPERANSKAYA, G.V.; TSIKAREV, D.A.

Investigating the process of preparing shaped metallurgical coke
from Donets Basin gas coal. Trudy IGI 10:60-65 '59.

(MIRA 12:12)

(Coke) (Donets Basin--Coal)

KONOVALOV, A.K.; SPERANSKAYA, G.V.

Peculiarities in the preparation of shaped coke from low-coking
acidic coals. Trudy IGI 10:126-136 '59. (MIRA 12:12)
(Coke)

SPERANSKAYA, G.V.

Permeability to gas as criteria of a plastic coal mass formation
during the coking process. Trudy IGI 10:164-173 '59.
(MIRA 12:12)

(Coke) (Permeability)

SPERANSKAYA, G.V.; GOLOVANOV, A.I.

Dynamics of linear shrinkage and weight loss of coal shapes during
coking. Trudy IGI 10:174-181 '59. (MIRA 12:12)
(Coke) (Dilatometry)

DEMIDOV, L.G.; SPERANSKAYA, G.V.

Expansion of coking coal resources in the Kuznetsk Basin. Koks i
khim. no.4:3-5 '61. (MIRA 14:3)

1. Institut goryuchikh iskopayemykh im. G.M.Krzhizhanovskogo AN
SSSR.

(Kuznetsk Basin—Coal)

GLUSHNEV, S.V.; DEMIDOV, L.G.; SPERANSKAYA, G.V.

Centrifugal preparation of petrographically heterogeneous
Kuznetsk Basin coals. Trudy IGI 20:3-9 '63. (MIRA 17:8)

SPERANSKAYA, G.V.; TSIKAREV, D.A.

Investigating the molding under pressure of a plastic coal
mass. Trudy IGI 20:92-97 '63. (MIRA 17:8)

LETOVA, V.K.; SPERANSKAYA, G.V.

Forming of a plastic gas-coal mass in the layer process of
coking. Trudy IGI 20:172-177 '63. (MIRA 17:8)

VENER, R.A., red.; SPERANSKAYA, G.V., red.; AKOPOV, M.G., red.;
KOSTIN, N.A., red.; MIROMOVA, T.A., ved. red.

[Preparation and complete utilization of fuel] Oboga-
shchenie i kompleksnoe ispol'zovanie topliva. Moskva,
Nedra, 1965. 255 p. (MIRA 18:6)

1. Moscow. Institut goryuchikh iskopayemykh.

SPERANSKAYA, I.M.

Ignimbrites in volcanogenic strata of the northern shore of
the Sea of Okhotsk and problems concerning their origin. *Trudy*
Lab. vulk. no.20:117-131 '61. (MIRA 14:11)

1. Severo-vostochnoye geologicheskoye upravleniye.
(Okhotsk Sea region--Volcanic ash, tuff, etc.)

SPERANSKAYA, I.M.

Nomenclature of effusive rocks. Izv. AN SSSR. Ser.geol. 26
no.9:107-108 S '61. (MIRA 14:8)
(Rocks, Igneous--Nomenclature)

S/081/62/000/002/023/107
B151/B108

AUTHOR: Speranskaya, I. M.

TITLE: Alunite locations of the secondary quartzite type in the north-east of the USSR

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 125, abstract 2G108 (Zap. Vses. mineralog. o-va, v. 90, no. 3, 1961, 307-310)

TEXT: On the north coast of the sea of Okhotsk, in the basin of the river Arman, in volcanic tuff of the upper Cretaceous sedimentary-volcanogenic stratum, alunite layers have been found. In the central area of the ore field which contains alunite-dikkite rocks with a variable alunite content there are veins of pure alunite. The results of microscopic, optical, thermal, chemical, and spectroscopic studies on alunite are given. Its chemical composition (in %) is SiO_2 1.20; TiO_2 , traces; Al_2O_3 37.95; Fe_2O_3 0.65; MgO 0.35; CaO 0.20; Na_2O 0.40; K_2O 7.44; $\text{H}_2\text{O} +$ 12.72; $\text{H}_2\text{O} -$ 0.08; SO_3 38.36; CO_2 0.47; total 99.82. The $\text{K}_2\text{O} : \text{Na}_2\text{O}$ ratio is 15 : 1. Spectroscopic analysis of alunite-dikkite rocks and of alunite respectively has shown the

Alunite locations ...

S/081/62/000/002/023/107
B151/B108

presence of the following elements (in %): V 0.006; 0.002; Mn 0.01; 0.01; Cu 0.001; 0.001; Ga 0.006; 0.03; Hg 0.000; 0.0001; Pb 0.004; 0.005. The high gallium content of this alunite as well as the high Ga-to-Al ratio is characteristic (atomic ratio of Ga : Al = 1 : 1800). [Abstracter's note: Complete translation.] ✓

Card 2/2

SPERANSKAYA, I.M.

Plateau-basalts in Cenozoic formations of the northern shore of
the Sea of Okhotsk. Geol.i geofiz. no.2:27-41 '62. (MIRA 15:4)

1. Severo-Vostochnoye geologicheskoye upravleniye, Magadan.
(Okhotsk Sea region--Basalt)

SPERANSKAYA, I.M.

Relationship between intrusives and effusives on the left bank
of the Nilgysyg River. Izv.AN SSSR.Ser.geol. 27 no.8:78-89
Ag '62. (MIRA 15:8)

1. Severo-Vostochnoye geologicheskoye upravleniye, g. Magadan.
(Nilgysyg Valley--Rocks, Igneous)

SPERANSKAYA, I.M.

Nature of the association of ignimbrites with near-surface
intrusions of granitoids. Izv. vys. ucheb. zav.; geol. i razv.
6 no.4:3-16 Ap '63. (MIRA 16:6)

1. Severo-Vostochnoye geologicheskoye upravleniye.
(Ignimbrites) (Granite)

SPERANSKAYA, I.M.; KRUTOUS, M.P.; TIMOSHENKO, V.I.

Some petrographic characteristics and properties of feldspars
in igneous rocks of the Armandskaya volcanic and plutonic
association (Maritime Territory). Trudy Lab. paleovulk. Kazakh.
gos. un. no.56:73-83 '63. (MIRA 16:6)

1. Severo-Vostochnoye geologicheskoye upravleniye.
(Maritime Territory—Feldspar)

SPERANSKAYA, I.M.; PECHERSKIY, D.M.

Conditions governing the formation of various types of ignimbrites.
Trudy SVKNII no.9 ~~18:9~~ '64. (MIRA 18:9)

SFERANSKAYA, I.Ye., kand.med.nauk

Heart failure in infectious nonspecific polyarthrits. Terap.
arkh. 34 no. 12:62-68 D'62. (MIRA 16:6)

1. Iz kliniki fakul'tetskoy terapii (zav. kafedroy - deystvi-
tel'nyy chlen AMN SSSR prof. A.I.Nesterov) lechebnogo fakul'-
teta II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(ARTHRITIS, RHEUMATOID) (RHEUMATIC HEART DISEASE)

TOPOLYANSKAYA, S.I.; FEDOROVA, O.A.; NUKHNAREVICH, A.F.; BRONSHTEYN, R.B.;
GRIMBERG, TS.B.; NIKOLAYEVA, K.G.; SPERANSKAYA, K.I.; IVANOVA, V.N.;
KISELEVA, V.P.; VIL'SHANSKAYA, F.L.; MATVEYEVA, V.N.

Finds of Salmonella reading. Zhur. mikrobiol. epid. i immun. 32
no.7:123 Je '61. (MIRA 15:5)

1. Iz sanitarno-epidemiologicheskoy stantsii Kalininskogo rayona
Moskvy i Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(SALMONELLA READING)

GORBUNOV, Eduard Petrovich; SPERANSKAYA, L., red.; NEZNANOV, V., mlad.
red.; MOSKVINA, R., tekhn. red.

[Socialist industrialization of the U.S.S.R. and its bourgeois
critics] Sotsialisticheskaya industrializatsiya SSSR i ee bur-
zhuaiznye kritiki. Moskva, Izd-vo sotsial'no-ekon. lit-ry,
1962. 129 p. (MIRA 16:3)

(Russia—Industries)

SPERANSKAYA, L.M.
SPERANSKAYA, L.M.

Twelve-year experience in collecting placental blood and its use -
in obstetrics. Akush. i gin. 33 no.4:105-107 J1-Ag '57.
(MIRA 10:11)

1. Iz Tsentral'nogo rodil'nogo doma (glavnyy vrach D.S.Pipinov)
g. Groznogo
(BLOOD TRANSFUSION
placental blood in labor compl.)
(LABOR, compl.
placental blood transfusion)

ZAKHAROVA, Nataliya Vasil'yevna; SPERANSKAYA, L.V., red.; KOSAREVA, Ye.N.,
tekhn.red.

[Legal aspects of ensuring collective security in Europe] Pravo-
vye voprosy obespecheniia kollektivnoi bezopasnosti v Evrope.
Moskva, Gos.izd-vo iurid.lit-ry, 1959. 108 p. (MIRA 13:1)
(Europe, Western--Defenses)

SPERANSKAYA, M. D. and O. Ya. OSTRIY

"The Role of Pathological Irrigation of Nerve-Receptor Apparatus in the Mechanisms of Experimental Diphtheria," p. 128.

"The Problem of the Mechanisms of the Action of Anti-Diphtheria Serum," p. 131

Problema Reaktivnosti v Patologii, Medgiz, Moscow 1954, 344pp.

(The Problem of Reactivity in Pathology)

CHERNYSHEV, M.A., dotsent, kand.tekhn.nauk; SPERANSKAYA, M.M., red.;
KLEYMAN, L.G., tekhn.red.

[Prospects for the expansion of track management during the 1959-1965 period in accordance with the decisions of the 21st Congress of the CPSU; for students and teachers of the All-Union Correspondence Institute of Railroad Engineers] Perspektivy razvitiia putevogo khoziaistva na 1959-1965 gody po reshenliam XXI s"ezda KPSS dlia studentov i prepodavatelei VZIIa, rabotaiushchikh v oblasti putevogo khoziaistva. Moskva, Vses.zaochnyi in-t inzhenerov zhel-dor.transp., 1959. 36 p. (MIRA 13:5)
(Railroads--Track)

VASIL'YEV, N.N., dotsent, kand.tekhn.nauk; SPERANSKAYA, M.M., otv. za
vypusk; KHITROV, P.A., tekhn.red.

[Switches; course of lectures on "The railroad track (Chapter
"Switches")" for students of the fifth and sixth courses
specializing in "Railroad construction"] Strelochnye perevody;
lektzionnyi kurs po distsipline "Ustroistvo zheleznodorozhnogo
puti" (Razdel "Strelochnye perevody") dlia studentov V i VI
kursov spetsial'nosti: "Stroitel'stvo zheleznykh dorog." Moskva,
Gos.transp.zhel-dor.izd-vo, 1959. 89 p. (MIRA 13:4)
(Railroads--Switches)

NAUMOV, S.N., dots., kand. tekhn. nauk; SPERANSKAYA, M.M., red.; SOLOV'YE-
VA, T.P., tekhn. red.; KLEYMAN, L.G., tekhn. red.

[Tunnels and subways] Tonneli i metropoliteny; kurs lektsii po raz-
delu "Gornye tonneli" dlia studentov VI kursa spetsial'nosti "Tonneli
i metropoliteny." Moskva, M-vo putei soobshcheniia Vses.zaochnyi in-t
inzhenerov zhel-dor. transporta, 1961. 279 p. ____ Diagrams. 32 p.

(MIRA 14:12)

(Tunneling)

SPERANSKAYA, M. P. and KOFAYEV, Yu. N.

"Conditioned-Reflex Activity of White Rats on Chronic Mechanical Stimulation
and partial Removal of the Cerebral Cortex," p. 55

from the book "Effect of Higher Divisions of the Nervous System on Processes
of Inflammation and Regeneration", Trudy 1-go Moskovskogo Ordena Lenina
Meditinskogo Instituta imeni I. M. Sechenova, 1957, 249 pp.

USSR/Human and Animal Physiology. The Nervous System:

T-12

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65722

Author : Konayev Yu.N. Speranskaya M.P.

Inst : First Moscow Medical Institute

Title : Conditioned-Reflex Activity of White Rats Subjected to
Chronic Mechanical Stimulation and Partial Removal of the
Cerebral Cortex.

Orig Pub : Tr. 1-go Mosk. med. in-ta, 1957, 2, 55-70

Abstract : A stereotype of conditioned reflexes was established in rats by means of the electrodefensive technique. With chronic mechanical stimulation or partial removal of the cortex, restoration of conditioned reflexes occurred on the second day after the operation. Until the tenth day marked weakening of the processes of internal inhibition was noted, as well as its pathological inactivity, disturbance in the interrelations between inhibitory and excitatory processes and rapid exhaustion of the excitatory process. Incomplete compensation of conditioned-reflex activity oc-

Card : 1/1 curred on the 20th to the 25th day.--P.M. Meshcherskiy

SHAKHILAMOV, V.A. (Moskva, V-333, 1-y Akademicheskii proezd, 32, kv. 46);
SPERANSKAYA, M.P. (Moskva, Kutuzovskiy pr., 47-B, kv. 111)

Glycogen accumulation in neutrophilic leucocytes in the
peripheral blood in aseptic inflammation. Arkh. anat.
gist. i embr. 41 no. 8: 94-96 Ag '61. (MIRA 1961)

1. Kafedra gistologii (zav. - prof. V.G. Yelisseyev) I
Moskovskogo ordena Lenina meditsinskogo instituta imeni
Sechenova.

(INFLAMMATION) (LEUCOCYTES) (GLYCOGEN)

S		27	
Structural Changes in the Surface Layers of Quenched Steel under the Influence of Grinding. L. V. Al'tshuler and M. P. Speranskaya. (Vestnik Metallopromyshlennosti, 1940, No. 1, pp. 18-21). (In Russian). Earlier studies of the surface finish, structure and wear-resistance of the ground steel surfaces which are so important in the manufacture of measuring instruments are briefly referred to. X-ray investigations by the authors on 1.5% chromium tool steel ground either after quenching or after quenching and artificial ageing at 150° C. for 3 hr., showed that in both cases grinding had at least the effect, judging by the structure produced, of a high-temperature tempering on the surface layers of the specimens. Coarse-grinding of quenched steel produced an austenitic structure on the outer surface layer, below which successive layers showed gradually diminishing temper effects, the layers merging into the original quenched steel with a tetragonal martensitic structure. The amount of austenite found increased with increasing quenching temperature of the steel being ground. The authors conclude that the grinding of unquenched steel does not lead to the formation of austenite. The above transformations cause stresses to be set up in a surface layer approximately 0.1 mm. thick. These stresses may lead to grinding cracks, and they also account for the previously observed reduced wear-resistance of the 0.1-mm. surface layer of ground-quenched steel. It is estimated that grinding causes localized heating to 1000° C. for 5×10^{-3} sec. This very rapid heating explains the above structural changes observed in the surface layers of ground quenched and unquenched steels.			
ASM-A54 METALLURGICAL LITERATURE CLASSIFICATION			
FROM SOURCE			

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9/056/50/0315/004/008/048
2013/2070

1.1210

144/00
AUTHOR:

Alshuler, I. I., Kerner, S. B., Ruzhnik, M. I.,
Fradisov, E. A., Zhuravskiy, M. P., Puntikov, A. I.,
The Isoentropic Compressibility of Aluminum, Copper, Lead,
and Iron at High Pressures

TITLE:

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 30, No. 4, pp. 1061-1073

NOTE: New methods of investigation of the properties of materials at high pressures depend on the application of shock waves. Two parameters are determined: the velocity of propagation of the shock wave, and the particle velocity at the front, which enable the pressure and density of the shock compression to be determined. Another important kinetic parameter is the velocity of sound in the propagation of small disturbances. This quantity characterizes the velocity of propagation of small disturbances in the compressed material. The velocity of sound is determined by the "cold" compression of the material, and the velocity of sound is determined by the "hot" compression of the material. In the present paper, a method is suggested for similar investigations.

Card 1/3

the measurement of the velocity of sound in the front of strong shock waves, and results of investigations for aluminum, lead, and iron for the pressures between 10^3 and $1.5 \cdot 10^4$ atm are given. In the first section a method of measuring the velocity of sound is given which depends on measurements with the discharge waves. In this method the decrease of pressure due to the superposition of the discharge and dilatation waves is measured. The velocity of sound is determined by the "cold" compression of the material. The velocity of sound is determined by the "hot" compression of the material. In the present paper, a method is suggested for similar investigations.

Card 2/3

elastic and plastic states of matter are established. The velocities of sound and the isentropic compressibilities in the above mentioned pressure range, the estimates of thermal energies, the temperature of shock compression, and the adiabatic coefficients are given in tables. Yu. M. Shustov is mentioned. The paper was started in 1948 on the initiative of Academician Ya. B. Zel'dovich. The Corresponding Member of the AS USSR Ye. I. Zhababkin is thanked for many valuable advices. K. K. Krut'kov, V. F. Ledenov, and A. I. Bakunov are thanked for discussions. Professor V. A. Fokhtman and his colleagues I. Sh. Solgi and E. A. Kamenov helped in the constructional problems. Some data were obtained from V. I. Zhababkin, A. E. Kolesnikov, M. R. Gorilov, and E. A. Shadrin. Helped in the experimental work. There are 10 figures, 7 tables, and 6 references: 5 Soviet and 5 US.

SUBMITTED: October 7, 1959 (initially), January 3, 1960 (after revision)

Card 3/3

SPERANSKAYA, M. P.

39265
S/126/62/013/005/015/031
E111/E435

24.7500

AUTHORS: Al'tshuler, L.V., Tarasov, D.M., Speranskaya, M.P.

TITLE: Deformation of steel under the action of explosion
shock-waves

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.5, 1962,
738-743

TEXT: The authors described their work, carried out in the mid-1940's, on the explosive deformation and fracture of metals. Under such conditions twinning and dynamic work hardening became intense. The macro- and micro-structures produced in plates mainly of low-carbon steel was examined after deformation produced by cylindrical charges (diameter $1/2$ to $2/5$ of the plate thickness) placed vertically on the plate surface. In some experiments the specimens were preheated. The explosion produced inside the metal, close to the deformation crater, a hemispherical zone of intense twinning, whose sharp boundary points to the existence of a critical pressure for twinning; above this pressure it proceeds in various directions and embraces the whole crystallite.

Card 1/2

Deformation of steel ...

S/126/62/013/005/015/031
E111/E435

volume. High-temperature tempering first removes internal stresses in twinning zones: these have the lowest recrystallization temperature. The intense - twinning zone is also formed in explosive deformation of specimens preheated to 700°C. Where explosion waves meet sideways or frontally, zones with great dynamic work-hardening are produced whose positions indicate zones of maximum explosive pressures; when pressures decrease rapidly or if the intensity of the meeting waves is reduced, white lines are produced on the macro-sections with fewer twins, surrounding or completely replacing dark zones: it is not clear which causes the white lines to appear. Some of the information obtained agrees with previously published work, most represents original material. Academician N.N.Davidenko and Professor V.A.Tsukerman gave valuable advice on this work. There are 12 figures.

SUBMITTED: July 29, 1961

Card 2/2

SPERANSKAYA, N. I.

USSR/Physics - Light Filters

Apr 52

"Monochromatic Light Filters," N.I. Speranskaya,
G.N. Rautian

"Zhur Tekh Fiz" Vol XXII, No 4, pp 620-624

Describes monochromatic light filters having maxima
at a distance of 20 to 30 Å and a background not
over 75 Å. Derives formulas for optical light-
filtering. Concludes that the best filters are
interference monochromators combined with colored
glass. Received 6 May 51.

2167100

SPEKTRALAYA, N. I.

RAUTIAN, G. N.; SPEKTRALAYA, N. I.

Graphic representation of color. Tekst. prot. 15 no. 5:34-36
My 155. (Color measurement)

SPERANSKAYA, N. I.

RAUTIAN, G.N.; LOBANOVA, N.V.; SPERANSKAYA, N.I.

Thresholds of color differentiation in a concentrated expression for
images on the positive of color film. Usp. nauch. fot. vol. 5:145-160
'57. (MIRA 10:6)

(Color photography)

(Photographic chemistry)

SPERANSKAYA, N. I.

51-4 -1-12/26

AUTHOR: Speranskaya, N. I.

TITLE: Method of Determining Spectral Colour Coordinates. (K metodike opredeleniya koordinat tsvetov spektra.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Nr.1, pp. 87-90. (USSR)

ABSTRACT: Measurements of colour coordinates were made using three types of field of vision: 2° , 10° , and 10° with a central zone of about 2° wide blacked out by a diaphragm in the middle of which a luminous point was left. The apparatus consisted of a monochromator whose objective was focused onto a white plate covered with magnesium oxide. A bright, coloured spot obtained thus on the plate was projected to the exit pupil of a tri-colour colorimeter (Ref.6). The field of view Card 1/4 was varied by means of diaphragms. Measurements were

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made in the spectral region 400-710 mμ at intervals of 10 mμ and in the 420-480 mμ region at intervals of 5 mμ. The exit slit of the monochromator separated out a spectral interval of 6-7 mμ at the ends of the spectrum, and 1.5-2 mμ in the middle of the spectrum. Five observers were used for visual tests. In addition to visual tests measurements of energy were made by means of a selenium photoelement. Each observer carried out two cycles of measurements, obtaining six values for each point on the spectrum. Fig.1 shows averaged out results for four observers (results obtained by the fifth observer were found to be anomalous). In Fig.1 curves 1 represent the 2° field, curves 2 represent the 10° field and curves 3 represent the 10° field Card 2/4 with 2° blacked out in the centre. Fig.1 shows that:

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(A) there is a systematic difference between results for the 2° field and the two types of the 10° field; (B) there are no appreciable differences between the two types of the 10° field; (C) errors are smaller when the 10° fields are used; (D) individual differences between separate observers are greater for the 2° field; (E) individual differences of separate observers are similar for both types of the 10° field. The author concludes, therefore, that the two types of the 10° field are equivalent, and they give better results than the 2° field. Fig.2 compares the 2° field results obtained in this paper (curves 1) with characteristics of a standard C.I.E. observer using also a 2° field (curve 3). It is found that good agreement is obtained

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between the 2° field and C.I.E. values for "red" curves and "green" curves, but not for "blue" curves. The latter difference may be due to inaccuracy of the C.I.E. values. Comparison of the 10° results obtained in this paper with C.I.E. standard-observer values (Fig.2, curves 2 and 3 respectively) shows even greater differences. The author recommends the use of the 10° field with a central 2° diaphragm, since it reduces the effect of the "Maxwell spot" on the retina. There are 2 figures and 6 references, of which 4 are English and 2 Russian.

ASSOCIATION: State Institute of Optics imeni S.I. Vavilov. (Gos. opticheskiy institut im. S.I. Vavilova.)

SUBMITTED: March 4, 1957.

AVAILABLE: Library of Congress.

Card 4/4 1. Color-Spectra 2. Color-Coordinate measurement

NOVIKOV, V.V.; SPERANSKAYA, N.I.

New methods for the colorimetry of multiple-reflecting systems.
Opt.-mekh. prom. 25 no. 2:37 P '58. (MIRA 11:7)
(Colorimetry)

SPERANSKAYA, N. I.

Cand Tec Sci, Diss -- "Tricolored coordinates of radiation of an equal-energy spectrum for normal and abnormal trichromates". Leningrad, 1961. 13 pp, 21 cm (Com of Standards, Meas and Meas Instr, Council of Min USSR. All-Union Sci Res Inst of Metrology imeni D. I. Mendeleev), 180 copies, Not for sale (KL, No 9, 1961, p 184, No 24370). [61-548517]

SPERANSKAYA, N.I.; LOBANOVA, N.V.

Determination of spectral sensitivity curves for ocular receptors
in normal trichromates. Biofizika 6 no.4:472-477 '61. (MIRA 14:7)

1. Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova.
(COLOR SENSE)

LOBANOVA, N.V.; SPERANSKAYA, N.I.

Determining spectrum sensitivity curves of the ocular receptors
in anomalous trichromats. Biofizika 6 no.5:596-604 '61.
(MIRA 15:3)

1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova.
(COLOR BLINDNESS)

SPERANSKAYA, N.I.

Spectral sensitivity of retinal receptors as determined in dichromats. Dokl. AN SSSR 148 no.3:702-703 Ja '63. (MIRA 16:2)

1. Predstavleno akademikom A.N. Tereninym.
(Retina) (Color sense)

LOBANOVA, N.V.; RAUTIAN, G.N.; SPERANSKAYA, N.I.

Spectral characteristics of color vision. Biofizika 8 no.4:
502-508 '63. (MIRA 17:10)

Speranskaya W.P.

Hypotensive function of pancreas. S. V. Andreev, N. R. Speranskaya, I. D. Kobkova, and N. I. Gavrilov. *Doklady Akad. Nauk S.S.S.R.* 105, 848-51(1955).--Successive and repeated treatment of freshly frozen and minced beef pancreas with 96% EtOH and dry Me₂CO resulted in isolation of an active principle, hypotoin CASK, pre-

dominantly in fraction pptd. with 37% Me₂CO. The repression of arterial pressure induced by it in dogs is prolonged and rapid; diastolic pressure is also reduced. G. M. Kosolapoff

MD (3)

S PERANSKAYA, N.P.

U-6

USSR / Pharmacology, Toxicology. Cardiovascular Agents

Abs Jour : Referat Zh.-Biol., No 1, 1958, No 3510

Author : Speranskaya, N.P.

Inst : Not given

Title : Comparison of the Actions of Various Depressor Agents of Animal Origin.

Orig Pub : Farmakol. i toksikologiya, 1956(1957), prilozh. Sb. ref., 14-15.

Abstract : An intravenous injection of hypotonin (a saline extract from the defatted and dehydrated pancreas into dogs under morphine -- urethan anesthesia in a dose of 0.06 -1 ml/kg caused a decrease in systolic pressure by 50 mm of Hg, and diastolic pressure by 40 mm of Hg. Hypotonin's action lasted between two and five hours, and over 15 hours in isolated

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...hypotonin was achieved by injecting a dry acetone
administrations of AMP (adenylic acid), Intero-
angiotrophin caused almost the same. Intero-
pressure (5, min). The depressor effect of intra-
venous myol was insignificant (a 10 mm Hg drop for 3 minutes).
Hypotonin has a more prolonged hypotensive effect than the
other vasodilator agents under study.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652630019-8

Card 2/2

S PERANSKAYA, N.P.

Comparison of the action of various depressor preparations of animal origin. Farm. i toks. 19 supplement: 14-15 '56. (MIRA 10:7)

1. Laboratoriya farmakologii i patofiziologii serdechno-soudiatory

SPERANSKAYA, N.P. (Moskva)

Effect of certain hyotensive drugs on experimental hypertension in dogs. Pat.fiziol. i eksp.terap. 3 no.4:35-39 J1-Ag '59. (MIRA 12:12)

1. Iz laboratorii patofiziologii i farmakologii serdechno-sosudistoy sistemy (zav. - prof. S.V. Andreyev) Instituta farmakologii i khimioterapii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov).

(ANTIHYPERTENSIVE AGENTS therapy)

SPERANSKAYA, N.P.

Effect of various pancreatic hypotensive preparations on blood pressure.
Farm. i toks. 22 no.3:273-274 My-Je '59. (WIRA 12:7)

1. Laboratoriya patofiziologii i farmakologii serdechno-sosudistoy
sistemy (zav. - prof. S.V. Andreyev) Institute farmakologii i khimio-
terapii AMN SSSR.

(BLOOD PRESSURE,

hypotensive pancreatic extracts (Rus))

(PANCREAS, extracts,

hypotensive drugs (Rus))

SPERANSKAYA, N.P.

Effect of combination of hypotensive drugs on arterial blood pressure in dogs. Biul. eksp. biol. i med. 47 no.3:53-57, M. '59. (MIRA 12:7)

1. Iz laboratorii patofiziologii i farmakologii serdechno-sosudistoy sistemy (zav. - prof. S.V. Andreyev) Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR V. V. Zakusov) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR V. V. Zakusovym.
(BLOOD PRESSURE, eff. of drugs,
hypotensive drugs in various combinations, in dogs (Rus))

ANDREYEV, S.V.; YEVSTIGNEYEVA, R.P.; MIRZABEKOV, A.M.; SPERANSKAYA,
N.P.; PREOBRAZHENSKIY, N.A.

Similarity between the chemical structure and biological
activity of ribonuclease and increpan. Zhur.ob.khim. 30
no.7:2433 J1 '60. (MIRA 13:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii i
institut farmakologii i khimioterapii Akademii meditsinskikh
nauk SSSR.

(Ribonuclease)

S PERANSKAYA, S. M., IKHTEYMAN, M. S.

"Organization of the Medicosanitary Service of Local Antiaircraft Defense"

Uchebnik dlya Meditsinskikh Sester, 1949, pp 334-345

Translation M-1327, 4 Dec 1956