

23

Physical Metallurgy and Pressworking of Metals

861/5690

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AVAILABLE: Library of Congress

Card 6/6

VK/vrc/tms
11-22-61

8/137/62/000/003/137/191
A052/A101

AUTHORS: Presnyakov, A. A., Dautova, L. I., Klyuchnikov, Yu. F.

TITLE: On some peculiarities of changes in microhardness and crystal structure of brasses

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 56, abstract 31357
("Tr. In-ta yadern. fiz. AN KazSSR," no. 4, 1961, 63-68)

TEXT: The changes in microhardness of brasses as a function of composition at hardening at different temperatures were investigated, and also an X-ray study of the crystal structure of alloys at higher temperatures was carried out. The microhardness of brasses containing 5 - 40% Zn was measured. The microhardness of alloys in a cast state and after hot deformation ($\sim 700^{\circ}\text{C}$) and annealing (4 hours at 600 and 800 $^{\circ}\text{C}$) was determined. On the microhardness curve of cast samples maxima are observed which indicate the presence of certain changes in the phase composition of alloys. A considerable decrease in the microhardness of alloys with $\gt 25\%$ Zn after annealing is considered to be connected with the fixation of the smelt, that is with the hardening of the liquid. After deformation and annealing an ordering takes place in alloys, with the formation of a

Card 1/2

8/137/62/000/003/113/191
A060/A101AUTHORS: Presnyakov, A. A., Dautova, L. I., Klyuchnikov, Yu. P.

TITLE: On the anomalies in the electrical resistance of brasses and aluminum bronzes

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 14, abstract 3192
("Tr. In-ta yadern. fiz. AN KazSSR", 1961, 4, 69-73)

TEXT: A determination was carried out of the dependence of ρ upon the temperature and duration of tempering of hardened specimens of alloys with 5-38% Zn and 1-6% Al (the remainder - Cu). The specimens were hardened from 800°C in ice water and subjected to tempering at 100 - 600°C for durations of 10 min to 12 hours. It was established that the anomalies of the mechanical and physical characteristics of the α -solutions of Zn in Cu were caused by the ordering process. The maximum ordering occurs at a Zn content of ~10 and 30%. The ordering process is preceded by the appearance of the K-state in the case of a long tempering of hardened alloys at 200 - 300°C. The appearance of the K-state and the ordering process are also observed in Al-bronzes. The homogeneous aging of unsaturated solid solutions, observed in brasses and Al-bronzes represents

Card 1/2

36452

S/137/62/000/003/136/191
A052/A101

17.1290

AUTHORS: Klyuchnikov, Yu. F., Presnyakov, A. A.

TITLE: The anomalies of electrical resistance of Cu-Ni alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 56, abstract 3I356
("Tr. In-ta yadern. fiz. AN KazSSR", no. 4, 1961, 74-77)

TEXT: The change of the specific electrical resistance after tempering at 100 - 600°C of 15 min. to 12 hours' duration was studied on alloys containing 5 - 50% Ni and water quenched at 850°C. For alloys with 5 - 30% Ni the electrical resistance changes slightly up to 300°C, afterwards it increases rapidly at the tempering up to 600°C; over 600°C the increase of electrical resistance becomes slower and sometimes disappears. This fact is connected with the emergence at temperatures of over 300°C of the short-range order (K-state) which disappears at temperatures over 600°C. Alloys with 40 and 50% Ni at tempering at 400°C display the minimum electrical resistance which points to the emergence of the ordering which disappears at temperatures up to 600°C. For the alloy with 40% Ni this effect is expressed more strongly. The decrease of electrical resistance

Card 1/2

S/058/62/000/006/095/136
A057/A101

AUTHORS: Presnyakov, A. A., Dautova, L. I., Klyuchnikov, Yu. P.

TITLE: On anomalies in the electric resistance of brass and aluminum bronze

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 57, abstract 6E440
("Tr. In-ta yadern. fiz. AN KazSSR", 1961, v. 4, 69 - 73)

TEXT: The electric resistance ρ of brass samples containing 5 - 38% Zn and of bronze samples with 1 - 6% Al was measured, in dependence on temperature and duration of tempering, to explain the nature of transformations in Cu-Zn alloys occurring with the change of various properties. The observed anomalies of ρ are connected with the relieving of thermal deformations, the formation of the K-state and with ordering processes, which are preceded by the appearance of the K-state.

A. Kikoin

[Abstracter's note: Complete translation]

Card 1/1

S/058/62/000/006/096/136
A057/A101

AUTHORS: Klyuchnikov, Yu. F., Presnyakov, A. A.

TITLE: Anomalies in the electric resistance of Cu-Ni alloys

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 57, abstract 6E441
("Tr. In-ta yadern. fiz. AN KazSSR", 1961, v. 4, 74 - 77)

TEXT: The change of the electric resistance ρ was investigated in solid solutions of Cu-Ni after hardening and tempering in order to verify the previously stated assumption that the ordering in alloys is preceded by the formation of the K-state. From the curves of the dependence of the relative change of ρ upon the tempering temperature, it is concluded that in alloys containing Ni up to 30% the K-state arises during tempering. In alloys with 30 - 50% Ni the K-state is followed by the ordering process.

A. Kikoin

[Abstracter's note: Complete translation]

Card 1/1

KLYUCHNIKOV, Yu.F. | PRESNYAKOV, A.A.

Changes in the electrical resistance of brasses close to the stoichiometric composition of Cu_3Zn during various heat treatments. Trudy Inst. met. i obogashch. AN Kazakh. SSR 4:82-86 '62. (MIRA 15:8)

(Brass--Electric properties)
(Metals, Effect of temperature on)

PRESNYAKOV, A.A.; CHERVIKOVA, V.V.; KLYUCHNIKOV, Yu.F.

X-ray investigation of hardened L75 brass during the tempering
process. Trudy Inst. met. i obogashch. AN Kazakh. SSR 4:
87-90 '62. (MIRA 15:8)

(Brass—Metallography)

PRESNYAKOV, A.A., KLYUCHNIKOV, YU.P.

TRANSACTIONS OF THE INSTITUTE OF NUCLEAR PHYSICS (TRUDY INSTITUTA
YADERNOMY FIZ IKI) of the KAZAKH Academy of Sciences, Volume 2, by
Different authors, Kazakh Academy of Science Publishing House
ALMA-ATA, USSR, 1999. 35

The fine crystalline structure and properties of non-ferrous alloys.

1. The fine crystalline structure and properties of Cu-Ni alloys.
2. The fine crystalline structure and properties of simple brasses.

KLYUCHNIKOV, Yu.F.; PRESNYAKOV, A.A.

Anomalous change in the structure of X-ray interferences in brass. Fiz.
met. i metallov, 17 no.2:293-296 P '64. (MIRA 17:2)

1. Institut metallurgii i obogasheniya AN KazSSR.

KLYUCHNIKOV, Yu.F.

Changes in the electric resistance of α -brass in the process of
annealing following deformation. Trudy Inst. met. i obog. AN
Kazakh. SSR 7:70-75 '63. (MIRA 17:6)

KLYUCHNIKOV, Yu.F.; PRESNYAKOV, A.A.

Effect of the rate of deformation on the plasticity indices of
alloys in the Cu₃Zn range. Trudy Inst. met. i obog. AN Kazakh,
SSR 7:76-79 '63. (MIRA 17:6)

KLYUCHNIKOV, Yu.F.; PRISHYAKOV, A.A.

Plasticity of copper-zinc alloys. Trudy Inst. met. i obog. AN
Kazakh. SSR 8:147-157 '63 (MIRA 17:8)

X-ray investigation of the effect of zinc concentration on the
ordering of α -brass. Ibid. 158-164

ACCESSION NR: AP4017366

8/0126/64/017/002/0293/0296

AUTHORS: Klyuchnikov, Yu. F.; Presnyakov, A. A.

TITLE: Anomalous variation of x ray interference structures in brass

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 2, 1964, 293-296

TOPIC TAGS: brass, x ray analysis, x ray diffraction pattern, lattice parameter variation, annealing, hardening, interference pattern variation

ABSTRACT: A new "oblique" method for x-ray analysis of alloys was developed and used to study detailed processes occurring in the thermal and mechanical treatment of alloys. It involves the rotation of a coarse-grained metal sample around its axis at an angle of $90^\circ - \theta$ relative to the incident x-ray beam. A basic requirement of this method is that the incident radiation should produce a reflection at an angle not less than $78-80^\circ$. These reflections make it possible to measure the lattice parameter with sufficient accuracy and to analyze the state of the alloy according to the interference spots. This method was applied to the study of Cu-Zn alloys with 15-40 % by weight Zn. To study the temperature behavior of the alloy structure, the samples were first annealed for 750 hours, followed by a gradual

Card 1/2

ACCESSION NR: APL017366 .

cooling from 7500 to room temperature. Other samples were quenched from 700, 750 and 800C, with subsequent tempering from 100 to 700C. During tempering of hardened brass samples the anomalous variations were observed in the x-ray interference structures and in the crystalline lattice parameter. These were believed to be related to a process of metal ordering. Maximum anomalous variation was associated with the 7500 quench. The change in the time lag at that temperature resulted in the appearance of new lattice parameter anomalies during tempering. The hardening at 800C caused the disappearance of the anomalies observed in the structure of the x-ray reflections. Orig. art. has: 5 figures.

ASSOCIATION: Institut metallurgii i obogasheniya AN KazSSR (Institute of Metallurgy and Beneficiation, AN KazSSR)

SUBMITTED: 25Feb63

ENCL: 00

SUB CODE: MM

NO REF SOV: 006

OTHER: 007

Card 2/2

MELIKHOV, V.D.; KLYUCHNIKOV, Yu.F.; PRESNYAKOV, A.A.

Use of Cu K β -radiation for the study of ordering in Cu-Sn
alloys. Zav. lab. 30 no.68719-721 '64 (MIRA 17:8)

1. Institut metallurgii i obogashcheniya AN Kazakhskoy SSR.

MELIKHOV, V.D.; KLYUCHNIKOV, Yu.F.

Using $CuK\beta$ -radiation to investigate ordering in copper-zinc alloys.
Trudy Inst. met. 1 obog. AN Kazakh. SSR 10:63-66 '64. (MIRA 18:7)

ACC NR: AP6035898

SOURCE CODE: UR/0413/66/000/020/0137/0137

INVENTOR: Kolyadin, A. I.; Mukhina, T. I.; Klyuchnikov, V. Y.

ORG: None

TITLE: A device for measuring the scattering coefficient of radiation. Class 42, No. 187356

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 137

TOPIC TAGS: light scattering, radiation, measuring instrument, optic system

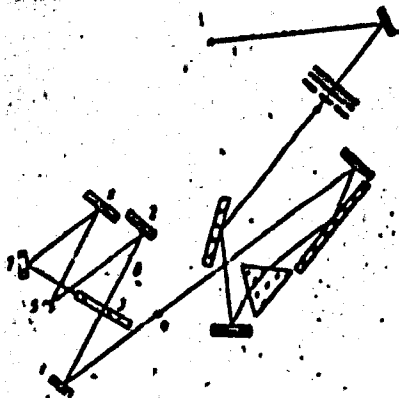
ABSTRACT: This Author's Certificate introduces: 1. A device for measuring the scattering coefficient of radiation. The installation contains a radiation source and receiver, monochromator and optical system for projecting the stream of radiation on the input slit. The range of angles at which the scattering coefficient can be measured in radiation of fixed wavelengths is expanded by using an optical system consisting of a parabolic and a spherical mirror or two spherical mirrors with the specimen between them in the form of a plane-parallel plate. The output slit of the monochromator is located at the main focus of the first mirror, while the radiation receiver is placed at the focus of the second. This receiver is mounted so that it may be moved in the focal plane. 2. A modification of this device for measuring radiation scattering coefficients at an angle of 90° to the surface of the specimen.

Card 1/2

UDC: 535.361.002.56

ACC NR: AF6035898

The unit has a trap mounted in the main channel and an auxiliary optical system made up of plane and spherical mirrors directing the given stream of radiation toward the receiver.



1--spherical or parabolic mirror; 2--spherical mirror; 3--specimen; 4--output slit;
5--receiver; 6--trap; 7--plane mirror; 8--spherical mirror

SUB CODE: 20/ SUBM DATE: 11Jun65

Card 2/2

KLYUCHNIKOV, Yu. I.

"Problem of the Complex Characteristics of Climatic Elements".
Uch. zap. Kazakhsk. un-ta, 18, No 2, pp 89-93, 1954.

The method of complex climatology of Ye. Ye. Fedorov (Geofiz. i Meteorologiya, 3, No 4, 1933) is discussed. The article gives a table of frequency of wind velocity gradations according to individual classes of weather in January in one of the regions of Kazakhstan. (RZhGeol, No 8, 1955)

SO: Sum No 884, 9 Apr 1956

KLYUCHNIKOV, Yu.I.

Climatic changes and why they occur. Geog. v shkole 18 no.1:64
Ja-V '55. (MIRA 8:3)
(Climatology)

KLICHADIKOV, Yu. I.

Agroclimatic possibilities of extending winter and spring wheat
planting in northeastern Kazakhstan. Vop.geog.Kazakh. no.1:153-158
'56. (MLRA 9:11)

(Kazakhstan--Wheat)

KLYUCHNIKOV, Yu. I.

KONOBITSKAYA, Ye.M., kand. geogr. nauk; KLYUCHNIKOV, Yu. I., kand. geogr. nauk.

New collection of articles ("Problems in the geography of Kazakhstan," no.2, 1957. Reviewed by Ye.M. Konobitskaia and Yu. I. Kliuchnikov). Vest. AN Kazakh. SSR 14 no.3:101-103 Nr '58.
(Kazakhstan--Physical geography) (MIRA 11:5)

KLYUCHNIKOV, Yu. I.

Climate of the Shchuchinsk-Borovoye health resort and sanatorium
district. Trudy Inst.kraev.pat. AN Kazakh. SSR 7:33-48 '59. (MIRA 15:3)
(SCHUCHINSK DISTRICT (KOKCHETAU PROVINCE)--CLIMATOLOGY, MEDICAL)

KLYUCHNIKOV, Yu.I.

General characteristics of the climate in a series of points of
eastern Kazakhstan. Trudy Otd. geog. AN Kazakh. SSR no.8:53-74 '61.
(MIRA 14:8)

(Kazakhstan--Climate)

KLYUCHNIKOV, Yu.I.

Climate of the Berzhogur resort. Trudy otd. geog. AN Kazakh.
SSR no.9:161-174 '62. (MIRA 15:6)
(Berzhogur--Climate)

S/169/62/000/011/051/077
D228/D307

AUTHOR: Kiyuchnikov, Yu.I.

TITLE: Climate of Yany-Kurgan Spa

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1962, 85,
abstract 11B474 (Uch. zap. Kazakhsk. un-ta, 46, 1960,
75-85)

TEXT: Yany-Kurgan, one of the major mud spas of Kazakhstan and Central Asia, is in the Ksyl-Ordinskaya oblast'. According to the classification scheme proposed by L.A. Chubukov, Yany-Kurgan can be regarded as a desert zone plains spa. The spa's climate is continental and arid. The weather conditions in each season of the year are considered separately. The summer season, which induces the most interest from the spa viewpoint, lasts about 5 months and is abruptly arid. The average daily air temperature ranges from 22 to 32° in June and July. Dry weather prevails if the air temperature is high, the sky is cloudless, and the wind is fresh. This complex of weather conditions is favorable for kidney disorder treat- ✓

Card 1/2

S/169/62/000/012/068/095
D228/D307

AUTHOR: Klyuchnikov, Yu.I.
TITLE: Climate of Berchogur Spa
PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 66,
abstract 128422 (In collection: Vopr. geogr. Kazakh-
stana, no. 9, Alma-Ata, AN KazSSR, 1962, 161-174)

TEXT: The best time of year from the health-resort point
of view is the period from May to September. This period is charac-
terized by the prevalence of dry cloudless weather, which has an
extremely beneficial effect on invalids with various forms of tuber-
culosis. The percentage frequency of very dry weather is especially
high in the period from June to August (15-16 days a month). On
other days of these months there is mainly dry weather (10-11 days).
From 20 to 25 days a month from May to September are characterized
by uncloudy (mainly) and rather uncloudy (partially) weather. In
addition it should be noted that the dryness of the air and the
absence of cloud are combined in this season with markedly developed

Card 1/2

17

SOV/177-58-4-14/32

AUTHORS: Dmitriyev, M.S. and Fisher, G.M., Lieutenant-Colonels of the Medical Corps
Klyuchnikova, A.G., Major of the Medical Corps
Sasina, V.G., Lieutenant-Colonel of the Medical Corps
Radzivilovskiy, S.L., Lieutenant-Colonel of the Veterinary Corps

TITLE: On Centers of Q Fever in the Central Volga Region (Ob ochagakh likhoradki Ku v Srednem Povolzh'ye)

PERIODICAL: Voenno-meditsinskiy zhurnal, 1958, Nr 4, pp 43-45 (USSR)

ABSTRACT: The author reports on the first cases of Q fever in the Vol'sk-Shikhary District in the Central Volga Region. The acute disease sets in with a general malaise and intensive pain in the forehead and the area of the eye-sockets. The body aches all over, especially in the extremities. Pronounced asthenia, frequent chills, insomnia and lack of appetite are characteristic of

Card 1/2

SOV/177-58-4-14/32

On Centers of Q Fever in the Central Volga Region

Q fever. In many cases, treatment with the Burnet antigen was successful. In spite of many examinations of men and animals, the author was not able to reveal the source of infection. In the district of the Central Volga Region, Q fever is probably caused by aerogenous and alimentary infection.

Card 2/2

FISHER, G.M.; FERDINAND, M.M.; KLYUCHNIKOVA, A.G.

Characteristics of atypical strains of Flexner's bacillus. Zhur.
mikrobiol., epidem. i immun. 27 no.3:24-27 Mr' 56. (MIRA 9:7)

1. In Sanitarno-epidemiologicheskogo otryada.
(SHIGELLA,
dysenteriae, atypical Flexner's strains (Rus))

807/36-56-60-3/10

AUTHOR: Leykhtman, D. L. and Klyuchnikova, L. S. .

TITLE: Effect of Advection on the Intensity of Snow Thawing (Vliyaniye advyektzii na intenzivnost' tawaniya snega)

PERIODICAL: Trudy Glavnoy geofizicheskoy observatorii, 1956, Nr 60, PP 32-39 (USSR)

ABSTRACT: Inflow of heat from radiation, vertical turbulent transfer, and the deeper layers of soil affect the rate of snow thawing. The present discussion is restricted to the effect of turbulent transfer. A mathematical interpretation with formulas and a solution of the problem are given. There are 2 figures, 2 tables, and 1 Soviet reference.

36-57-69-11/16

AUTHOR: Laykhtman, D. L. and Klyuchnikova, L. A.

TITLE: The Role of "Polynya" in the Heat Balance of the Arctic (Rol' rasvodiya v teplovom balanse Arktiki)

PERIODICAL: Trudy Glavnoy geograficheskoy observatorii, 1977, Nr 69, pp 77-79 (USSR)

ABSTRACT: Although polynyas form only 5 percent of the total Arctic ice cover, they play an important role in its heat balance. The authors analyze the problem by comparing the components of heat balance for ice-covered and open water surfaces. The analysis is mathematical and the conclusion is that 50 percent of the heat emitted in the Arctic comes from the open polynya areas. There are 1 Soviet reference, 2 tables, and 1 figure.

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Card 1/1

uses the attached alignment chart (nomogram). This nomogram forms the substance of the article and establishes directly the value of turbulence flow. The mathematical study (for which the nomogram is drawn) is based on D. L. Laykhtman's

Card 1/3

APPROVED FOR RELEASE

36-57-69-16/16

Monogram for the Calculation of (Cont.)

formula for calculating value Q for one particular substation at z altitude. The formula reads:

$$Q = \frac{\rho X_a^2 z_0^{2\epsilon} u_1 \epsilon z^{1-\epsilon}}{(1-\epsilon)^2 (z_1^\epsilon - z_0^\epsilon)} \frac{\partial \psi}{\partial z}$$

where X_a is the Kármán constant (equal to 0.38), u_1 is wind velocity at an altitude of 1 meter, ϵ - the stability parameter, and z_0 - rigidity of the near-surface layer. The author also evolves a formula for determining coefficient k , if such calculation is attempted. The formula reads:

$$k = \frac{X_a^2 z_0^\epsilon u_1 \epsilon z^{1-\epsilon}}{z_1^\epsilon - z_0^\epsilon}$$

By integrating the above formula for Q, we obtain:

$$Q = - \rho \frac{X_a^2 z_0^{2\epsilon} u_1 \epsilon z}{(1-\epsilon)^2 (z_1^\epsilon - z_0^\epsilon)} \frac{\psi_{z_0} - \psi_{0.5}}{(z_{2.0}^\epsilon - z_{0.5}^\epsilon)}$$

Card 2/3

36-57-69-16/16

Nomogram for the Calculation of (Cont.)

in which $v_{2.0}$ and $v_{0.5}$ are the values for two substations at two different levels (at 2 and 0.5 meters). The nomogram was computed from these formulas. There are two Soviet references.

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Card 3/3

KLYUCHNIKOVA, L. A.

3(7)

b. v

PHASE I BOOK EXPLOITATION

SOV/1733

Leningrad. Glavnaya geofizicheskaya observatoriya

Voprosy fiziki prizemnogo sloya vozdukh (Problems in the Physics of the
Near-Surface Air Layer) Leningrad, Gidrometeoizdat, 1958, 102 p.
(Series: Its: Trudy, vyp. 77) 1,300 copies printed.

Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy
sluzhby

Ed. (title page): D.L. Lavikhtan, Doctor of Physical and Mathematical
Sciences; Ed. (inside book): Yu.V. Vlasova; Tech. Ed.: A.N. Berguyev

PURPOSE: This collection of articles is intended for scientists interested in the
processes that take place in the boundary layer of the atmosphere.

COVERAGE: This publication contains 13 articles dealing with the physical processes
of near-surface air masses. The research work was done in 1956. The basic work
is related to the formation of hoarfrost and fog and to the effect of the con-
densation processes on thermal conditions. Some articles deal with the methods
for measuring and computing the main meteorologic features of the near surface
Card 1/4

Problems in the Physics (Cont.)

SOV/1733

- Shnaydman, V.A. The Relation Between the Non-stable Pressure Fields and the Wind Distribution in a Boundary Layer** 65
- Tarnopol'skiy, A.G. Common Determination of the Nature of Meteorologic Elements and of the Specific Quantitative Features in a Atmospheric Boundary Layer** 72
- Tseytin, G.Kh. Certain Methods for Determining the Coefficient of Horizontal Turbulent Diffusion** 76
- Gorbunova, I.G., T.V. D'yachkova, and N.V. Serova. Results of the Measurement of Specific Thermophysical Properties of Soil Under Natural Conditions** 79
- Gandin, L.S., and R.E. Soloveykhik. The Distribution of Industrial Smoke** 84

Card 3/4

Problems in the Physics (Cont.)

SOV/1733

Broydo, A.G., and S.L. Kozhar. Determining the Accuracy of the Station
Computation Method for the Coefficient of the Temperature Conductivity of
Soil 95

Broydo, A.G., and N.A. Suboch'. The Accuracy of the Approximation
Method in the Computation of the Heat Current in Soil 99

AVAILABLE: Library of Congress

Card 4/4

MM/GRD
4-26-59

RLYUCHNIKOVA, L.A.; LAYKHTMAN, D.L.

Some characteristics of diurnal wind velocity variations according
to the data of the Makhtaly Expedition. Trudy GGO no.107:52-54
'61. (MIRA 14:10)

(Winds)

L 11182-66

EWT(1)/FCC

OW

SOURCE CODE: UR/2531/65/000/167/0003/0028

ACC NR: AT6004145

AUTHOR: Kiyuchnikova, L. A.; Laykhtan, D. L.; Tseytin, G. Kh.

34
B+1

ORG: Main Geophysical Observatory, Leningrad (Glavnaya geofizicheskaya observatoriya)

TITLE: Calculation of the vertical wind profile in the boundary layer of the atmosphere

12,4455

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 167, 1965. Fizika pogranichnogo sloya atmosfery (Physics of the boundary layer of the atmosphere), 3-28

TOPIC TAGS: atmospheric boundary layer, wind profile, atmospheric turbulence, mathematical analysis

ABSTRACT: This paper is a further development of the theoretical model for the structure of the boundary layer of the atmosphere in stationary conditions as a function of external parameters. A mathematical model is proposed for the coefficient of turbulence and a system of equations is given for determining the vertical

Card 1/2

2

L 14182-66

ACC NR: AT6004145

profiles of meteorological elements of the boundary layer under stationary conditions based on external parameters. This system of equations accounts for motion, heat transfer in the soil and in the atmosphere and humidity transfer in the atmosphere. The initial and boundary conditions for the problem are stated and a general solution is given. Formulas are derived for calculating the vertical wind profile in the boundary layer of the atmosphere and a computational scheme is proposed for determining the various parameters appearing in these formulas. Examples are given illustrating the effect of the coefficient of turbulence on the structure of the boundary layer of the atmosphere. It is found that the coefficient of turbulence increases with altitude according to a power law, reaching a maximum at some point and then decreasing with altitude. An appendix to the article gives tables of the functions appearing in the formulas derived. Orig. art. has: 2 figures, 6 tables, 70 formulas.

SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 009/ OTH REF: 000

Card 2/2 *g*

KLIUCHNIKOVA, L.A.; LYAKHTMAN, D.L.; TSEYTIM, G.Kh.

Calculation of the vertical wind profile in the surface boundary
layer. Trudy GGO no.167:3-28 '65.

(MIRA 19:1)

KLYUCHNIKOVA, L.P., ved. red.; STAROSTINA, L.D., tekhn. red.

[Unified time norms for repairing the fittings of oil field equipment] Edinye normy vremeni na slesarnyi remont neftepromysloвого oborudovaniia. Moskva, Izd-vo "Nedra," 1964. 72 p. (MIRA 1714)

1. Moscow. Tsentral'noye byuro promyshlennykh normativov po trudu.

KULIYEV, Saftar Mekhti; MAHEDOV, Nuraddin Nurmaned; MDIVANI,
Aleksandr Georgiyevich; KLYUCHNIKOVA, L.P., ved. red.

[Efficiency of drilling deep wells] Effektivnost' burenia
glubokikh skvazhin. Moskva, Izd-vo "Nedra," 1964. 122 p.
(MIRA 17:5)

KLYUCHNIKOVA, L.P., ved. red.

[Unified time norms for underground repair of wells]
Edinye normy vremeni na podzemnyi remont skvashin. Mo-
skva, Izd-vo "Nedra," 1964. 122 p. (MIRA 17:4)

1. Moscow. Tsentral'noye byuro promyshlennykh normativov po
trudu.

PAPATSENKO, Khristofor Ivanovich; SNITKO, I.K., red.; KLYUCHENIKOVA,
L.P., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Design, construction and operation of self-supporting,
suspended pipelines] Proektirovanie, stroitel'stvo i eks-
pluatatsia samonesushchikh provizsiunshchikh truboprovo-
dov. Moskva, Gostoptekhzdat, 1963. 110 p.

(MIRA 16:4)

(Pipelines)

GULIZADE, M.P., prof., doktor tekhn.nauk, otv. red.; TSEKUN, N.A., dots.,
kand. tekhn. nauk, zam. otv. red.; NEGREYEV, V.F., prof.,
doktor khim. nauk, red.; SPIRIN, A.A., dots., kand. tekhn.
nauk, red.; KLYUCHNIKOVA, L.P., ved. red.; POLOZKOVA, V.V.,
ved. red.; POLOSINA, A.S., tekhn. red.

[Transactions of the All-Union Interuniversity Scientific
Conference on Corrosion Control Problems] Trudy Vsesoiuznoi
meshvuzovskoi nauchnoi konferentsii po voprosam bor'by s kor-
rosiei. Moskva, Gostoptekhsdat, 1962. 405 p. (MIRA 16:8)

1. Vsesoyuznaya meshvuzovskaya nauchnaya konferentsiya po vop-
rosam bor'by s korrosiyey. 2. Azerbaydshanskiy institut nefti
i khimii im. M.Azisebekova (for Spirin, Tsekun).
(Corrosion and anticorrosives)

ВЕРХОВНИЙ, Л. С. П.

VOLOVICH, N.I.; KRASOVITSKAYA, A.M.; NIKULINSKAYA, N.N.; KLATOPOL'SKAYA, N.D.;
NDEL'SHTEYN, R.I.; SAVITSKAYA, N.K.; PARKHOMENKO, L.I.; DERKACH, V.S.,
professor, direktor; MININA, O.I.; SOKOLOV, G.S.; ISTOMINA, I.D.;
GORDIYENKO, Ye.G.; KLYUCHNIKOVA, L.Sh; MADTOKA, V.L.; KOCHINA, V.N.;
AVTONOMOVA, L.V.; BIRNBERG, S.S.; GORODENKINO, R.A.; BELAYA, O.S.;
SAVOHENKO, A.M.

Study of efficacy of the enteral immunisation against dysentery. Authors'
abstract. Zhur.mikrobiol.epid.i immun. no.8:27 Ag '53. (MIRA 6:11)

1. Ukrainskiy institut epidemiologii i mikrobiologii im. I.I.Mechnikova v
Khar'kove. (Dysentery)

M.
KLYUCHENIKOVA, M.I.

Organisation of laboratory inspection of the food in sanatoria at
the Sochi - Matsesta health resort. Vop.pit. 16 no.1:78 Ja-F '57.
(NIRA 10:3)

1. Is pishchevoy laboratorii Kurortnoy polikliniki No.1, Sochi.
(SOCHI--DIRT IN DISHES)
(FOOD ADULTERATION AND INSPECTION)

KLYUCHNIKOVA, M.I.

Sampling the daily ration at the Sochi-Matsesta resort. Top.pit:
no.5:83-84 8-0 '58 (MIRA 11:10)

1. In pishchevoy laboratorii kurortnoy polikliniki No.1, Sochi:
(HEALTH RESORTS,
hyg. testing of daily food ration in resort (Rus))

KLYUCHNIKOVA, M.T.

Semiautomatic continuous production line of the mixing and
rolling section manufacturing colored rubber for shoe soles.
Kauch.i rez. 19 no.3:41-44 Nr '60. (MIRA 13:6)

1. Kiyevskiy regeneratno-resinovy zavod.
(Boots and shoes, Rubber)

ALEKSANDROV, Grigoriy Fedorovich; KLYUCHNIKOVA, N.I., redaktor; GILKINSON,
P.T., ~~tehnicheskii redaktor~~

[Organisation of slaughterhouses] Organizatsiia skotouboinykh
punktov i boenskikh ploshchadok. Moskva, Izd-vo tekhn. i ekon.
lit-ry po voprosam sagotovok, 1954. 78 p. (MIRA 8:6)
(Slaughtering and slaughterhouses)

~~NIKOLAYEV, Aleksey Ivanovich, professor; KLUCHENKOVA, N.I., redaktor;~~
LABUS, G.A., tekhnicheskij redaktor; OILINSON, P.G., tekhnicheskij
redaktor.

[Wool; commercial guide] Tovarovedenie shersti. Pod.red. N.M.Ov-
chinnikova. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam za-
gotovok, 1954. 283 p. (MIRA 8:4)
(Wool)

KLYUCHNIKOVA, N.I.

DEVS, Georgiy Vyacheslavovich; GEL'MAN, D.Ya., redaktor; KLYUCHNIKOVA, N.I.,
redaktor; OVCHINNIKOV, P.I., spetsredaktor; GOLUBKOVA, L.A., tekhnredaktor

[Electric equipment for grain elevators, flour mills, groat, and
mixed feed plants] Elektrooborudovanie elevatorov, mol'nits,
krupianykh i kombikormovykh zavodov. Moskva, Izd-vo tekhn. i
ekon. lit-ry po voprosam makromel'no-krupianei, kombikormovoi
promyshli: elevatorno-skladskogo khesial'stva, 1956 287 p. (MLBA 10:2)
(Grain-milling machinery)

KLYUCHNIKOVA, V.M., aspirantka; **BRIKKEB, Ye.B.**, student; **ZYSIN, Yu.P.**,
prof., doktor tekhn.nauk

Effect of the construction of uppers on time expended for
machine sewing. Izv.vys.ucheb.sav.; tekhn.log.pron. no.1:
89-99 '59. (MIRA 12:6)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii obuvi.
(Shoe manufacture)

KLYUCHNIKOVA, Y.M., aspirant; ZYBIN, Yu.P., doktor tekhn.nauk prof.

Effect of the design of the shoe uppers on time expended on machine stitching. Izv.vys.ucheb.sav.; tekhn.leg.prom. no.5: 95-105 '59. (MIRA 13:4)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva. (Shoe manufacture) (Work measurement)

KLYUCHNIKOVA, V.M., inzh.; ZYBIN, Yu.P., doktor tekhn.nauk, prof.

Time expended for work breaks for material pivoting in stitching shoe uppers. *Izv.vys.ucheb.sav.; tekhn.log.prom. no.6:71-79 '61.*
(MIRA 14:12)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva.
(Shoe manufacture)
(Time study)

KLYUCHNIKOVA, V.M., kand. tekhn. nauk, assistant; SHILOVA, G.N., studentka

Using the calculation method for determining the time needed for the bending of the edges of shoe upper parts. Nauch. trudy MTILP no.27:108-114 '63. (MIRA 17:11)

1. Kafedra tekhnologii izdeliy iz kozhi Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

KLYUCHNIKOVA, V.M., kand. tekhn. nauk, dotsent; GORYACHEVA, N.I., inzh.

Investigating the infrared drying systems for footwear with
chrome leather uppers. Nauch. trudy MTILP no.30:130-135 '64.
(MIRA 18:6)

1. Kafedra tekhnologii izdeliy iz kozhi Moskovskogo tekhnologicheskogo
instituta legkoy promyshlennosti.

KLYUCHNIKOVA, V.M., kand., tekhn. nauk, dotsent; LEVENKO, S.P., inzh.

Calculation method for determining the duration of manual operations in the assembly of shoe uppers. Nauch. trudy MTILP no.30:143-152 '64. (MIRA 18:6)

1. Kafedra tekhnologii izdeliy iz kozhi Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

KLYUCHNIKOVA, V.

Yardmaster of a mechanized hump yard. Rabotnitsa 31 no.7:13 J1 '53.
(MIRA 6:6)
(Railroads - Switches)

KLYUCHNIKOVA, Ye.A.

Treating patients with lead poisoning at the Sary-Agach mineral
springs. Trudy Inst.krasv.pat. AN Kazakh,SSR 4:94-109 '56.

(LEAD POISONING)

(MLRA 10:3)

(SARY-AGACH--MINERAL WATERS)

KLYUCHNIKOVA, Ye.A.

Treating disorders of the nervous system at the Saryagach mineral
springs. Trudy Inst. Kraev.pat. AN Kazakh SSR 5:140-147 '57.

(NERVOUS SYSTEM--DISEASES)

(MIRA 11:2)

(SARYAGACH--MINERAL WATERS)

KLYUCHENIKOVA, Ye.A.

Condition of the olfactory analyzer and changes in patients with
intoxication under the influence of therapeutic baths. Trudy Inst.
krazv.pat. AN Kazakh. SSR 7:152-159 '59. (MIRA 13:3)
(SARYAGACH--MINERAL WATER) (LEAD POISONING) (SHELL)

ATCHABAROV, B.A.; NIKULICHEVA, V.S.; KLYUCHNIKOVA, Ye.A.

Static tremor of the hands in saturnism. Trudy Inst. kraev. pat.
AN Kazakh. SSR 8:130-142 '60. (MIRA 14:5)
(TREMOR) (LEAD POISONING)

KLYUCHNIKOVA, Ye.A.

Treatment of patients with diseases of the peripheral nervous system at Ayak-Kalkan Springs by using mineral water of natural low temperature and mineral water that has been slightly heated. Trudy Inst.kraev.pat.AN Kazakh. S.S.R. 11:98-108 '62.

(MIRA 16:4)

(NERVOUS SYSTEM--DISEASES)
(ALMA-ATA PROVINCE--BATHS, MEDICATED)

KLYUCHNIKOVA, Ye.A.; ATCHABANOV, S.A.

State and change of the taste analyzer under the influence of
balneological treatment in lead poisoning. Trudy Inst.kraev.pat.
AN Kazakh.SSR 10:153-166 '62. (MIRA 16:15)
(LEAD POISONING) (TASTE) (HYDROTHERAPY)

ATCHABAROV, B.A.; KLYUCHNIKOVA, Ya.A.; GORBUNOVA, N.V.

State of the olfactory analyzer in lead intoxication. Trudy
Inst.kraev. pat.AN Kazakh. SSR 9:178-188'61. (MIRA 16:7)
(LEAD POISONING) (OLFACTORY NERVE)

ATCHABAROV, B.A.; KLUCHNIKOVA, Ye.A.

Changes in cutaneous sensitivity in lead intoxication.
Trudy Inst. kraev. pat AN Kazakh. SSR 9:189-213'61.

(MIRA 16:7)

(LEAD POISONING) (SKIN—INNERVATION)

BEKLEMISHEV, N.D.; KASYKOVA, Kh.A.; SHYREVA, Ye.A.; KLYUCHNIKOVA, Ye.A.
MOSHKOVICH, V.S.; ILEULIN, S. Zh.; YAKOVLEVA, N.A.

State of the health of people inoculated with live antituberculosis
vaccines. Izv. AN Kazakh. SSR. Ser. med. nauk no.1:84-90 '64
(MIRA 17:7)

~~BEKLEMISHEV, N.D.; KASYMOVA, Kh.A.; SHNYREVA, Ye.A.; KLYUCHNIKOVA, Ye.A.;
MOSHKEVICH, V.S.; TLEULIN, S.Zh.; YAKOVLEVA, N.A.; ZENKOVA, N.F.~~

State of health in persons vaccinated with live antibrucellosis
vaccines. Zhur. mikrobiol., epid. i imm. 41 no. 2:139-140 F '64.
(MIRA 17:9)

1. Kazakhskiy institut krayevoy patologii AMN SSSR, Alma-Ata.

ARAKELIAN, O.I.; KLYUCHNIKOVA, Ye.F.

Investigating sodium and potassium aluminates hydrates formed in
alumina production residues. TSvet. met. 36 no.1:43-50 Ja '63.
(MIRA 16:5)

(Aluminum industry--By-products) (Aluminate--Testing)

L 2:132-66 ~~INT(l)/INT(m)/INT(r)/INT(n)-2/INT(a)/INT(t) INT(c) m/hr~~
ACC NR: AP6011014 SOURCE CODE: UR/0080/66/039/003/0577/0584

AUTHOR: Gopiyenko, V. G.; Anufriyeva, N. I.; Klyuchnikova, Ye. F. 42
B

ORG: none

TITLE: Cathode crystallization during titanium purification in melted salts 2/ 19

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 3, 1966, 577-584

TOPIC TAGS: titanium, metal purification, electrocrystallization, chloride, electrolyte, electrolysis, titanium electrocrystallization

ABSTRACT: In studying the electrocrystallization of titanium from melts and development of electrolytic methods of preparing and refining titanium, it has been determined that titanium crystallizes at the cathode at temperatures of 700 to 900C in five basic crystal forms, namely, needle-shaped, prismatic, laminar, octahedral, and finely disperse. A marked growth and further development of forms in crystal grains was observed at temperatures of 700 to 850C. Cathode metals of various coarseness (except for the 0.25 mm size) are basically of identical shape but differ in sizes of crystals. The effects of the concentrations of titanium chlorides in the electrolyte, duration of electrolysis, process temperatures, and impurities of certain salts in the electrolyte on titanium electrocrystallization are shown.

Card 1/2 UDC: 621.357.9+546.821

L 2h132-66

ACC NR: AP6011014

Orig. art. has: 7 figures. [Based on author's conclusions] (NT) ⁰

SUB CODE: 07/ SUBM DATE: 17Jul64/ ORIG REF: 004/ OTH REF: 004/

Card 2/2 BK

KLYUCHNIKOVA, Ye.F.; OOPITENKO, V.O.

Determining the phase-mineralogical composition of the alloys
NaCl - TiCl₄, Zav, lab. 31 no.4:469 '65.

(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut
alyuminiyevoy, magniyevoy i elektrodnoy promyshlennosti.

KLYUCHEV, K. A.

Power Presses

Twin presses. Tabak, 13, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952, Uncl.

KLYUGE, G.A. [deceased]

Bryozoa of the region of Franz Josef Land. Trudy AANII 259:
181-190 '64. (MIRA 17:12)

KLYUCE, I. V.

KLYUCE, I. V. -- "Investigation of Methods of Forming Urea from Citrulin and Various Amino Acids in Homogenates of Rat Liver." Acad Med Sci USSR. Inst of Biological and Medical Chemistry. Moscow, 1955. (Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Letopis', No. 2, 1956.

KLUGE I.V

USSR/ Human and Animal Physiology-Metabolism.

T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36140.

Author ~~+~~ Kluge, I.V.

Inst :

Title : Stages of Transformation of Nitrogen of Various Amino-
Acids and Ammonia into Urea in the Liver of Mammals.

Orig Pub: Biokhimiya, 1956, 21, No 5, 516-527.

Abstract: The reduction mechanism of N of various aminoacids and NH_3 into urea in the liver of rats was studied. It was demonstrated that the utilization of N of aminoacids and other compounds during the second phase of the ornithine cycle takes place only after a preliminary transfer of N to asparaginic acid (I). N of noncarbon aminoacids is transferred to I primarily

Card

: 1/2 *Lab. Nitrogen Formation Exchange
Inst. Biol. Med. Chem, AMS, USSR*

13

USSR/ Human and Animal Physiology-Metabolism

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36140.

by a 2 step reaction of peramination with the participation of ketoglutaric acid as an intermediary carrier of NH_2 . This is demonstrated by the application of fluoracetic acid, a substance inhibiting the action of aconitase, thereby preventing the synthesis of ketoglutaric acid. NH_3 , liberated by the oxidating deamination of serine and histidine, is transferred to I by transamination through glutaminic acid. In liver homogenates of rats with B_6 avitaminosis, the synthesis of urea from citrilline and other aminoacids remains undisturbed, which is explained by the high residual activity of aminopherase.

Card : 2/2

KLYUGEV, P. (g. Sverdlovsk)

Preventorium of the Seversk steel workers. Okhr. truda i sots. strakh.
no. 8:45-47 Ag '59. (MIRA 12:11)

1. Korrespondent zhurnala "Ochrana truda i sotsial'noye strakhovaniye."
(Sverdlovsk Province--Medicine, Industrial)

KLYUCHAREV, G. G., HAYER, G. A., POPOVA, T. I., KEGASHEVA, S. I.,
IGRATOVICH, Z. A., RAZUMOV, A. S., KUCHEVIC, M. G., PERTOSOVSKAYA, M. I.,
TALAYEVA, YU. G., VLADCVETS, V. V., ANDREYEVA, G. V., FISHER, I. N.,

"Modern problems of sanitary bacteriology in the solution
of problems of communal hygiene."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

KLYUCIN, A.A.

Determining the width of protective zones, the height of discharge pipes and the degree of purification of gases entering the atmosphere. (Int Russia (1923)- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya inspeksiya. Ochistka promyshlennykh vybrosov v atmosferu. 1953, p.33-53) (MLBA 7:1)

1. Institut gigeny truda i professional'nykh zabolevaniy Akademii meditsinskikh nauk SSSR.

(Air--Purification)

KLYVOIN, S. A.

(DECEASED)

1963/2

c' 1962

HYOIEHE -
climate

see ILC

KLYUGL, Ya. [Klugl, J.]

Chemical reinforcement of wells and removing of sand. Prace ust
naft 18:56-57 '61.

KLYUKA, I.V., mladshiy nauchnyy sotrudnik

Treatment of amblyopia in children following eye surgery. *Oft. zhur.*
13 no.5:277-281 '58 (MIRA 11:10)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo
instituta glaznykh bolezney i tkanevoy terapii im. akademika V.P.
Filatova (direktor - prof. N.A. Puchkovskaya).
(AMAUCOSIS)

KLYUKA, I.V., mladshiy nauchnyy sotrudnik

**Treatment of amblyopia with improper fixation. Oft.smr. 14
no.5:276-279 '59. (MIRA 12:10)**

**1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo
instituta glaznykh bolezney i tkanevoy terapii im. akademika
V.P.Filatova (direktor - prof.N.A.Pashkovskaya).
(AMAUROSIS)**

KLYUKA, I. V., Cand Med Sci -- (diss) "Treatment of amblyopia in children." Odessa, 1960. 14 pp; (Odessa State Medical Inst in N. I. Pirogov); 300 copies; price not given; (KL, 23-60, 127)

KLYUKA, N.A.

"Fundamentals of supplying material and equipment to railroads"
by G.V.Zetilov, S.D.Taguntsev. Reviewed by N.A.Kliuka. Zhel.dor.
transp. 42 no.8:95-96 Ag '60. (MIRA 13:8)

1. Nachal'nik slushby material'no-tekhnicheskogo obespecheniya
Vostochno-Sibirskoy deregi, g.Irkutsk.
(Railroads--Equipment and supplies)
(Zetilov, G.V.) (Taguntsev, S.D.)

KLIUKA, N.A. (Irkutsk)

"Economics and organization of material and equipment procurement in railroad transportation" by G.M.Demichev, A.N.Korytov, A.P. Idaashenko. Reviewed by N.A.Kliuka. Zhel.dor.transp. 44 no.1:94-96 Ja '62. (MIRA 14:12)

1. Zamostitel' nachal'n'ika sluzhby material'no-tekhniceskogo obspecheniya Vostochno-Sibirskoy dorogi.

(Railroads—Management)

(Demichev, G.M.)

(Korytov, A.N.)

(Idaashenko, A.P.)

KLYUKA, O. V.

"Investigation of the Reaction Between Kaolin and Calcium Hydroxide Under Hydrothermic Treatment." Cand Tech Sci, Moscow Chemotechnological Inst, Moscow, 1953. (RZhKhin, No 17, Sep 54)

SO: Sun 432, 29 Mar 55

KLYUKHA, O. V.

Hardening of lime clay sand building materials in hydrothermal conditions P. P. Klyukha and O. V. Klyukha
Doklady Akad. Nauk S.S.S.R. 90, 1962, 1123-1125
Bricks, consisting of sand and (1%) of CaO and varying ratios of kaolinite and sand, were exposed for 24 hrs. to steam at 8 atm. The tensile strength increased with increasing kaolinite content. Exposed to high-pressure steam, kaolinite is activated and reacts with lime, forming $4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot 12\text{H}_2\text{O}$ or $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$ when gypsum is also admixed. Both show hydrate properties.
R. S. Lubomirski

KLYUKACH, A.

Agricultural engineering

Experience of a communist meadow improving station. MTS12 No.1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May ² 1957, Uncl.

KLYWKACHEV, V

USSR/ Miscellaneous

Card 1/1 Pub. 89 - 28/28

Authors : ~~Klykachev, V.~~; Gol'dreer, I.; Roginskiy, V.; Piltakyan, A.; and Gutkin, E.

Title : Exchange of experiments

Periodical : Radio 4, pages 48, 53, and 63, Apr 1955

Abstract : The following subjects and items are briefly discussed and described: A two-voltage rectifier used for rectification of the 300-320 and 130-150 volt plate circuits in a cathode-ray tube; electronic compensators for stabilizing power feeds; the use of the 6Zh2P pentode as an amplifier; the semi-duplex operation during amateur radio communications; and the contest of amateur radio clubs in establishing radio communication with Experimental Arctic Stations No. 3, and No. 4. Circuit diagrams; graphs; tables.

Institution :

Submitted :

107-5-43/54

AUTHOR: Klyukachev, V. and Sudravskiy, D.

TITLE: Stray Magnetic Fields in TV Sets
(Magnitnyye navodki v televizore)

PERIODICAL: Radio, 1956, Nr5, p. 43 (USSR)

ABSTRACT: An analysis of a-c power spurious voltages affecting the image on the screen and measures to prevent them. Magnetic interference results in distortion of the edges of the raster, sneak a-c currents in the supply circuits result in a horizontal dark stripe.

The power transformer is usually responsible for the magnetic stray fields in a tv set. To minimize this interference it is recommended: to mount the transformer as far from the picture tube as possible, to position it at the optimum angle, to equip the transformer with a short-circuited (heavy copper) turn, and to mount the transformer under the chassis.

The supply filter is usually responsible for sneak power-frequency currents. To eliminate them it is recommended to provide a 50-c or 100-c rejection filter.

There are 2 figs in the article.

AVAILABLE: Library of Congress

Card 1/1

KLYUKACHEV, V.

107-12-30/46

AUTHOR: Klyukachev, V. (Moscow)

TITLE: A Generator for Testing the Linearity of TV Scanning
(Generator dlya proverki lineynosti razvertok televizora)

PERIODICAL: Radio, 1956, Nr12, pp. 37-38 (USSR)

ABSTRACT: A description of a self-made generator and the method of linearity testing.

Three tubes are used: two type 6H9C double triodes for cathode-coupled multivibrators and one type 6X8 pentode for high-frequency oscillator. The multivibrator square-pulse frequency can be varied from 30 to 250 kc. Applied to the modulator electrode of the picture tube this frequency produces from 4 to 16 vertical black-on-white stripes. Hence the linearity of the horizontal sweep can be easily tested.

The second multivibrator produces a square-pulse frequency between 50 and 500 cycles/sec. Applied to the modulator electrode this frequency causes from 2 to 10 horizontal stripes to appear on the screen. These help to check the linearity of the vertical sweep.

Pulse repetition frequencies 30-250 kc and 50-500 c can be used for testing of the signal transmission through the video amplifier. The h-f oscillator generates frequencies between 45 and 108 mc.

Card 1/2

107-12-30/46

A Generator for Testing the Linearity of TV Scanning

The technique of testing of scanning in a tv set is explained in some detail. A simultaneous application of both pulse repetition frequencies results in a chessboard-resembling pattern on the screen. Any irregularity of the pattern is an indication of nonlinearity. The nonlinearity coefficient can be easily determined by a ruler and the use of a simple formula.

There are two figs in the article.

AVAILABLE: Library of Congress

Card 2/2

KLYUKACHEV, V., *inghener.*

Television in military science. *Voen.snan. 33 no.5:14-17 My '57.*

(MLRA 10:7)

(Television in military art and science)

KLYUKACHEV, V.A.; VINOGRADOVA, G.

Around the world. Za besop.dvish. 3 no.1016-7 O '60. (MIRA 13:10)

1. Obshchestvennyy inspektor 10 otdeleniya Otdela regulirovaniya
ulichnogo dvizheniya (for Klyukachev). 2. Redaktor radioveshchaniya
fabriki "Dukat" (for Vinogradova).
(Traffic engineering)

KLYUKACHEV, V.A.

Third International Conference on the Use of Electronics in Medicine.
Radio no.12:51-52 D '60. (MIRA 14:1)
(Electronics in medicine--Congresses)