GERMAIDZE, Georgiy Yefimovich; KHUDYAKOV, N.A., kand.tekhn.nauk, red.; TSYMBALIST, N.N., red.izd-va; MATLYUK, R.M., tekhn.red.

[Upkeep of open-hearth furnaces] Ukhod za martenovskimi pechami. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1960. 75 p. (MIRA 13:6)
(Open-hearth furnaces--Maintenance and repair)

GARYAYEV, Andrey L'vovich; GERMAIDZE, G.Ye., retsenzent; SKOROBOGACHEVA, A.P., red. izd-va; TURKINA, Ye.D., tekhn. red.

[Repairing metal parts of technical equipment in metallurgical shops] Remont metallokonstruktsii tekhnologicheskogo oborudovaniia metallurgicheskikh tsekhov. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii Sverdlovskoe otd-nie, 1961. 38 p. (MIRA 14:7)

(Metallurgical plants--Equipment and supplies)

GARYEYEV, Andrey L'vovich; GERMAIDZE, G.Ye., retsenzent; SKOROBOGACHEVA, A.P., red. izd-va; TURKINA, Ye.D., tekhn. red.

[Cooling equipment of open-hearth furnaces; design and manufacturing process] Okhlazhdaemaia armatura martenovskikh pechei; konstruktsiia i tekhnologiia izgotovleniia. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii Sverdlovskoe otd-nie, 1961. 51 p.

(Open-hearth furnaces--Equipment and supplies) (MIRA 14:7)

VECHER, N.A., inzh.; GERMAIDZE, G. Ye., inzh.; PANFILOV, M.I., dotsent; KHIL'KO, M.M., inzh.; MERSHCHIY, N.P., inzh.; ALFEROV, K.S.., inzh.; ANTONOV, S.P.; DIKSHTEYN, Ye.I.; YAGNYUK, M.I.; BELIKOV, K.N.; GONCHAREYSKIY, Ya.A.; TRIFONOV, A.G.; SEDACH, G.A.

"Open-hearth plants with large-capacity furnaces" by D.A. Smoliarenko, N.I. Efanova. Reviewed by N.A. Vecher and others. Stal' 21 no.2:125-126 F '61. (MIRA 14:3)

1. Sverdlovskiy sovet narodnogo khozyaystva (for Vecher, Germaidze, Panfilov).

(Open-hearth furnace—Design and construction) (Smoliarenko, D.A.) (Efanova, N.I.)

GERMAIDZE, G.Ye.; KORSHUNOV, V.S.; KHOROSHAVIN, L.B.; FREYDENBERG, A.S.; GAMZA, D.N., red.

[Heating up and rapid fritting of open-hearth furnace hearth bottoms] Razogrev i skorostnoe navarivanie poda martenovskikh pechei. [By] G.E.Germaidze i dr. Moskva, Metallurgiia, 1964. 110 p. (MIRA 17:11)

SOV/137-58-10-20714

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 54 (USSR)

AUTHORS: Mikulinskiy, A.S., Germaidze, M.S.

TITLE: Production of Metallic Potassium by the Carbide Method at Elevated Residual Pressures (Polucheniye metallicheskogo kaliya karbidnym metodom pri povyshennykh ostatochnykh davleniyakh)

PERIODICAL: Tr. Ural'skogo n.-i. khim. in-ta, 1957 (1958), Nr 5, pp 36-38

ABSTRACT: In order to simplify the design of furnaces, particularly of the continuous type, a study was made of the possibility of producing K at elevated residual pressures. Ar and N are used as the inert gases. It proved possible to recover K with adequate yields at 50-100-mm Hg residual pressure of the inert gas.

1 Potassium--Production 2. Neon--Applications 3. Argon--Applications 4. Furnaces--Design

L. P.

Card 1/1

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 59 (USSR) SOV/137-58-11-22255

AUTHORS: Yumanova, L. V., Germaidze, M. S

TITLE: Distillation of Potassium From a Potassium-lead Alloy (O distillyatsii kaliya iz splava svinets-kaliy)

PERIODICAL: Tr. Ural'skogo n.-i. khim. in-ta, 1957 (1958), Nr 5, pp 66-80

ABSTRACT: The flowsheet for producing K through the medium of a K-Pb alloy includes electrolytic production of the alloy and distillation of the K therefrom. A study is made of the distillation of K from alloys containing ~6-13% K. Conditions of distillation permitting reduction in K content to 0.1-0.4% are recommended, as follows: Temperatures 630-680°C, residual pressure 0.04-1.5 mm Hg. It is noted that condensation of K on a water-cooled condenser occurs in the 200-300° interval. It is observed that the process rate is determined by the size of the surface of evaporation; within certain limits, the thickness of the alloy layer is not of decisive significance owing to the natural turbulence within the alloy which is caused by the reduction in specific gravity as the concentration of alloy is changed. Flowsheets and descriptions are provided of

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Distillation of Potassium From a Potassium lead Alloy SOV/137-58-11-22255

semicontinuous laboratory distillation equipment now in use and of pilot-plant equipment being planned. Both permit the distillation operations of transferring the alloy, and the K, to proceed under air tight conditions. In large-scale laboratory experiments using semicontinuous equipment a K yield of 84% with a loss of 0.2% thereof is attained. The Pb content of the condensate is 0.36%. It is found that contamination of the K by lead diminishes with an increase in the height of the distillation chamber.

L. P.

Card 2/2

ACC NR: AP6035825 (A) SOURCE CODE: UR/0413/66/000/020/0032/0032

INVENTOR: Maron, F. S.; Germaidze, M. S.

ORG: none

TITLE: Method of synthesizing lithium boride. Class 12, No. 186953 [announced by the Ural Scientific Research Chemical Institute (Ural'skiy nauchno-iseledovatel'skiy khimicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 32

TOPIC TAGS: lithium compound, boride, chemical synthesis

ABSTRACT: This Author Certificate introduces a method of synthesizing lithium boride by thermal reduction of mixture of boric anhydride and a lithium compound with magnesium. To obtain a finely dispersed high-purity product, lithium fluoride is used as a compound and the reduction is carried out at approximately 450C.

SUB CODE: 07 / SUBM DATE: 03May65/

Card 1/1 UDC: 661.655:661.834

GERMAIDZE V.E.

A - 2220

AUTHOR GERMAIDZE, V.E.

TITLE On the Asymptotic Stability in First Approximation (Ob asimptoticheskoy ustoychivisti po pervomu priblizheniyu).

PERIODICAL Prikladnaia Matematika i Mekhanika, 1957, Vol 21, Nr 1, pp133-135 (U.S.S.R.)

Received 3/1957 Reviewed 4/1957

ABSTRACT May the equations of a disturbed motion be assumed to have the following form: $dx_s/dt = X_s(t,x_1,\dots,x_n) + R_s(t,x_1,\dots,x_n)$ $(s=1,\dots n)$. Here the functions $X_s(t,x_1,\dots,x_n)$ in the domain $\|x\|<H$, $0\leq t<\infty$ $(\|x\| = \sup\{|x_1|\dots|x_n|\})$ are defined and steady, and within this domain they satisfy the following LIPPSCHTZ conditions with respect to the variables x_j: $|X_s(t,x''_1,\dots,x''_n) - X_s(t,x'_1,\dots,x'_n)|<L\|x''-x'\|$. Let it further be assumed that $X(t,0,\dots,0)\equiv 0$. The functions $R_s(t, x_1,\dots x_n)$ may be assumed to satisfy the following inequations within the above domain: $|R_s(t,x_1,\dots,x_n)|<\|x\|\varphi(t)$. Together with the first mentioned system of equations the following equations are here investigated: $dx_s/dt = X_s(t,x_1\dots,x_n)$ $(s = 1,\dots,n)$. The following theorem is given: Every solution of the aforementioned system of equations is assumed to satisfy the inequation $\|x(t_0,x_0,t)\| \leq B\|x_0\| \exp\{-\alpha(t - t_0)\}$ at initial values which originally were within the domain $\|x\|<H<0\leq t<\infty$. Here B and α denote positive constants which are independent of t_0, and it is true that $t> t_0$. If at least one such $T>0$ exists, so that in the case of all $t_0\geq 0$ the inequation $(1/T)\int_{t_0}^{t_0+T}\varphi(\xi)d\xi<\gamma$ $(\gamma = (c_2/c_1^2)(1 - q)$; $c_1 = (e^{L\theta}- 1)/L$; $c_2 = (e^{\alpha\theta}- 1)$

Card 1/2

AUTHOR: Germaidze, V.Ye. and Krasovskiy, N.N. (Sverdlovsk) 40-21-6-5/18

TITLE: Stability Under Constantly Acting Disturbances (Ob ustoychivosti pri postoyanno deystvuyushchikh vozmushcheniyakh)

PERIODICAL: Prikladnaya Matematika i Mekhanika, 1957, Vol 21, Nr 6, pp 769-774 (USSR)

ABSTRACT: The authors investigate the behavior of the solutions of different differential equations. The initial equations are essentially systems of differential equations of first order in which on the right side there stand arbitrary functions of the variables and of the time. Starting from the solutions of a certain fundamental system conclusions on the solutions of disturbed systems are obtained. Several theorems of the following kind are proved : If the zero solution of the shortened initial equation is uniformly asymptotically stable, then it is stable too if there exist constantly acting external disturbances which are bounded in the mean. The proof of these and of similar theorems is carried out according to Lyapunov's method. Surpassing the investigations usual till now the authors still deal with systems of equations, the variables

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of which possess delayed arguments. Even for such systems of equations corresponding theorems like that one mentioned above can be proved. The paper is particularly interesting, since in its third section a proof for the frequently applied and extraordinarily useful method of the harmonic balance is given. A general theorem is derived which represents a mathematical foundation to this method heuristically applied till now. There are 11 references, 9 of which are Soviet, and 2 American.

SUBMITTED: July 18, 1957

AVAILABLE: Library of Congress

1. Differential equations--Analysis

Card 2/2

GAMKRELIDZE, V. Ye.: Master Phys-Math Sci (diss) -- "Problems of the stability of movement in perturbances limited on the average". Sverdlovsk, 1959. 9 pp (Min Higher Educ USSR, Ural State U im A. M. Gor'kiy), 150 copies (KL, No 10, 1959, 122)

16(1)

AUTHOR: Germaidze, V.Ye. SOV/42-14-4-8/27

TITLE: On the Asymptotic Stability of Systems With a Retarding Argument

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 149-156 (USSR)

ABSTRACT: Given the system

$$\frac{dx_i}{dt} = X_i(t,x_1(t-h_{i1}(t)),\ldots,x_n(t-h_{in}(t))) +$$

$$+R_i(t,x_1(t-h_{i1}(t)),\ldots,x_n(t-h_{in}(t))x_1(t-\eta_{i1}(t)),..,x_n(t-\eta_{in}(t))) \quad (1)$$

$$X_i(t,0,\ldots,0) = 0 \qquad (i=1,\ldots,n).$$

The functions X_i are defined in $\|x\|<H$, $t\geq 0$, are continuous and there they satisfy the Lipschitz condition. The delays h_{ik} and η_{ik} are piecewise continuous and $0<h_{ik}(t)$, $\eta_{ik}(t)$ $h = \text{const}$. The R_i are so that the existence of the solution is guaranteed and $|R_i| \leq \varphi(t)\|x(t-\tau)\|_\tau$, where $\|x(t-\tau)\|_\tau = \sup\{|x_i(t-\tau)|\}$, $0 \leq \tau \leq 2h$.

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On the Asymptotic Stability of Systems With a Retarding Argument SOV/42-14-4-8/27

Theorem: The zero solution of (1) is asymptotically stable if the solutions of the shortened system $\frac{dx_i}{dt} = X_i$ satisfies the inequation

$$\|x(t_0, x_0(t_0+\theta), t+\theta)\|_\tau \leq B \|x_0(t_0+\theta)\|_\theta \exp\{-\alpha(t-t_0)\},$$

where B and α are constants and $t \geq t_0$, and if there exists at least one $T > 0$ with the property that for all $t_0 \geq 0$ the condition

$$\frac{1}{T}\int_{t_0}^{t_0+T} \varphi(t)dt \leq \gamma, \quad \gamma = \text{const}$$

is satisfied. θ is defined by the initial functions $y(-\theta)$ (compare [Ref 1]).
Further 3 theorems treat other cases of systems the perturbation terms R of which are small in the mean. An application to quasilinear systems is given. There are 10 references, 6 of which are Soviet, 2 English, and 2 American.

SUBMITTED: July 13, 1957
Card 2/2

16.2490

S/044/62/000/006/016/127
B156/B112

AUTHOR: Germaidze, V. Ye.

TITLE: Periodic solutions stable according to Lyapunov

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 59-60, abstract 6B253 (Tr. Ural'skogo politekhn. in-ta, sb. 113, 1961, 4 - 9)

TEXT: A system of equations (in vector form) is considered: $\dot{x} = X(t, x) + R(t, x) + F(t)$, $X(t, 0) = R(t, 0) = 0$, where X, R, F are continuous functions defined for $\|x\| = \sup\{|x_1|, \ldots, |x_n|\} < H$, bounded, and periodic with respect to t with a period ω. In this domain the functions $R(R_1, \ldots, R_n)$ satisfy the inequality $|R_i(t,x'') - R_i(t,x')| \leq \varphi(t)\|x'' - x'\|$, where $\varphi(t)$ is a continuous function which is periodic with the period ω. The following theorems are proved: Theorem 1. If each of the systems

$$\dot{y} = X(t, y + u(t)) - X(t, u(t)), \quad (4)$$

where $u = \{u_1, \ldots, u_n\}$ is an arbitrary differentiable function, and where

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$\|u(t)\| < H$, admits the Lyapunov function $V(\{u(t)\}, y, t)$ which in the domain $\|y\| < h$ (h being a sufficiently small constant) satisfies the estimates

$$c_2\|y\| \leqslant V \leqslant c_1\|y\|,$$

$$\frac{dV}{dt} \leqslant -c_3\|y\|, \quad \sum_{i=1}^{n}\left|\frac{\partial V}{\partial y_i}\right| \leqslant c_4,$$ where the constants $c_1, \ldots, c_4$ are one and the same for all $u(t)$, then the system has a unique periodic solution asymptotically stable according to Lyapunov, the more so if the function $\gamma(t)$ in inequality (3) satisfies the condition

$$\frac{1}{\omega}\int_0^{\omega}\gamma(t)\,dt \leqslant \frac{c_2c_3}{c_1c_4}(1-q),\ 0<q<1,$$ and if the function $F = \{F_1, \ldots, F_n\}$ is subject to the inequalities $|F_i| \leqslant F_0$, where F_0 is a certain number connected with $c_1, \ldots, c_4, H$. In the case of $H = \infty$, F_1 is arbitrary.

Theorem 2. If the zero solution of the equation $\dot{x} = A(t)x$, where $A(t)$ is a periodic matrix asymptotically stable, then it is possible to indicate numbers δ_1 and δ_2 such that from the fulfilment of condition (3) in the

Card 2/3

Periodic solutions ...

Consider $\|x\| < \infty$ and from the inequalities $\frac{1}{\omega}\int_0^\omega \psi(t)dt < l_1$, $\frac{1}{\omega}\int_0^\omega \|P(t)\| \cdot \|X(t)\| dt < l_2$, the existence and uniqueness of a periodic solution of the equation $\dot{x} = P(t)x + R(t, x) + F(t)$ follows ($P(t)$ is a periodic matrix), as well as the asymptotic stability according to Lyapunov with any initial disturbances. Theorem 3. If the functions $X_i(t, x)$ have continuous bounded partial derivatives of second order with respect to x_j, then system (4) in theorem 1 may be replaced by the system $\dot{y} = P(\{u(t)\}, t)y$, $P_{ij}(\{u(t)\}, t) = \left[\frac{dX_i}{dx_j}\right]_{x=u(t)}$. [Abstracter's note: Complete translation.]

Card 3/3

GERMAN, A.; FILIP, V.

A new method of bromide analyzing. Rev chimie Min petr 15 no. 1: 47 Ja '64.

DRAGUSIN, I.; GERMAN, A.

A new method of determining the ethylmercuric chloride in the technical and formulated products used as fungicides. Rev chimie Min petr 14 no.6:352 Je '63.

GERMAN, A.; [illegible], G.

A new method for complexometric determination of kaolin.
Rev chimie Min petr 14 no.7:424 Jl '63.

GERMAN, A.G.

Carried out by the operative personnel. Avtom. telem. i svyaz' 8 no.1:31-32 Ja '64. (MIRA 17:3)

1. Nachal'nik revizora po bezopasnosti dvizheniya poyezdov na Debal'tsevskom otdelenii Donetskoy dorogi.

BELOV, V. P.; GERMAN, A. I.; KOSTYANOV, G. N.; PAKHOMOVA, L. A.

"Balloon and aircraft measurements of short wave radiation."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

ACC NR: AT7000565 SOURCE CODE: UR/2789/66/000/070/[illegible]/0022

AUTHORS: German, A. I.; Korobov, M. G.; Markina, N. G.; Pakhomova L. A.

ORG: none

TITLE: The angular distribution of reflected radiation from flight data of an IL-18 aircraft in 1964

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 70, 19[illegible]. Radiatsionno-opticheskiye i ozonometricheskiye issledovaniya atmosfery (Radiation-optical and ozonometric investigations of the atmosphere), 3-22

TOPIC TAGS: aircraft, actinometry, aerial camera, solar radiation, radiation measurement, meteorologic satellite, cloud formation, potentiometer / AFA-37 aerial camera

ABSTRACT: This paper posos the problem of joint examination of cloud and radiation fields. A method for aircraft experiments and for processing the results of measurements of reflected short-wave radiation from various underlying surfaces and cloud formations is described. The aircraft had: actinometric apparatus for measuring the angular distribution of the intensity and flux density of reflected radiation (0.3—3.0 μ); a Yanishevskiy pyranometer for measuring the total radiation flux; and an AFA-37 aerial camera for vertical photography of the terrain and cloud formations. The incident total radiation was recorded continuously on the paper tape of a

Card 1/3 UDC: 551.521.14

ACC NR: AT7000565

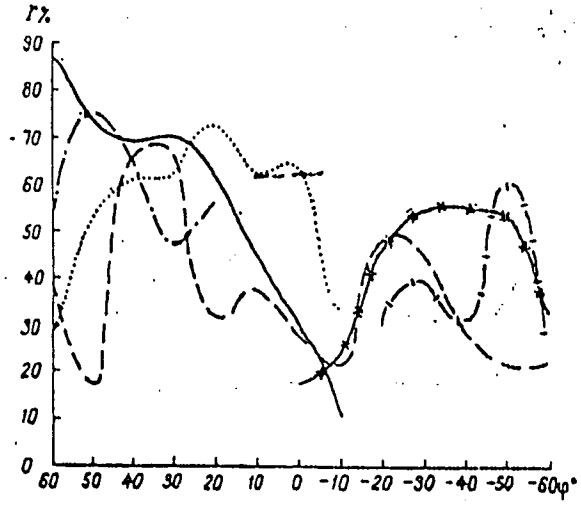

Fig. 1. Angular distribution of luminance coefficient above cumulus congestus

potentiometer. Flights were made in areas of Central Asia, the Caspian Sea, the European Territory of the SSSR, and the Far East. The ascending short-wave radiation was found to be chiefly determined by the reflecting properties of the underlying

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ACC NR: AT7000565

surface and the clouds. The angular dependence of the luminance coefficient of the earth's surface and clouds within sighting angles of 0±60° is entirely determined by the horizontal heterogeneity of the reflecting properties of the earth's surface and the upper cloud limit (see Fig. 1). The contribution of the atmospheric layer above a water surface from the reference level to 9 km to the ascending radiation does not exceed 3% of the incident radiation for sighting angles of 0±30°. Orig. art. has: 1 formula, 17 graphs, 3 photographs, and 4 tables.

SUB CODE: 04,20/SUBM DATE: 20Jan65/ ORIG REF: 004/ OTH REF: 005

Card 3/3

ACC NR: AT7000566 SOURCE CODE: UR/2789/66/ /070/0023/0030

AUTHOR: German, A. I.

ORG: none

TITLE: Measuring the angular distribution of short wave radiation intensity from atmospheric balloons

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 70, 1966. Radiatsionno-opticheskiye i ozonometricheskiye issledovaniya atmosfery (Radiation-optical and ozonometric investigations of the atmosphere), 23-30

TOPIC TAGS: short wave radiation, atmosphere, atmospheric radiation, solar radiation, earth science

ABSTRACT: Results of measuring short wave radiation from atmospheric balloons on cloudless and cloudy days are presented. The measuring apparatus and the errors associated with its use are discussed. The work was done in August 1962 in the vicinity of Ryl'sk, Kursk district. Readings were scheduled so that they would correspond with several solar azimuth angles. Plots of the test data are presented and show the angular distribution of intensity at various times and conditions. For example, the angular coordinate distribution of intensity above continuous cloudiness is given for a particular set of experimental conditions in Fig. 1. It is noted that in the presence of continuous cloudiness the effect of the atmosphere on the angular

Card 1/2

UDC: 551.521.31

ACC NR: AT7000566

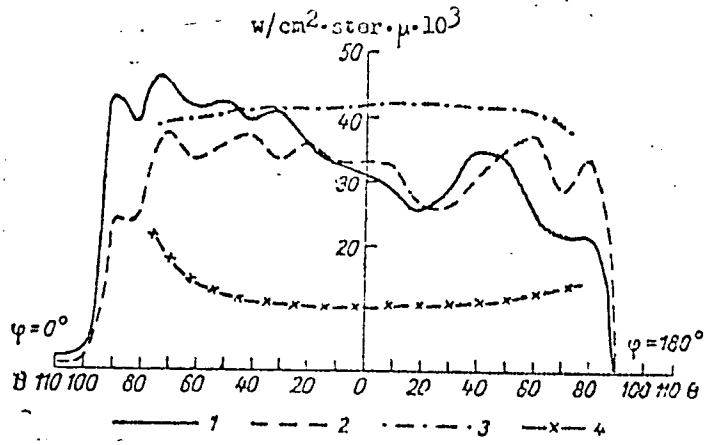


Fig. 1. Angular distribution of intensity above continuous cloudiness. 1, 2 - measured above Ns clouds at H = 23 km, i = 58°; 3, 4 - calculated for A = 0.8, τ = 0.2; i = 30 and 75

distribution of intensity in the lower hemisphere is small. Atmospheric intensity in the horizontal direction is approximately the same in cloudy or in cloudless weather. The results of the experiments are in accord with previous theoretical work. Orig. art. has: 4 figures.

SUB CODE: 04,08/ SUBM DATE: 01Feb65/ ORIG REF: 005

Card 2/2

GERMAN, A.Z.; [illegible]

Blyava pyritic copper deposit in the [illegible] Orlu... [illegible] po geol. i pol. iskop. Ukh. Urala no. 3:180-187 [illegible] (MIRA 17:7)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514910007-4"

GERMAN, A.K.

New data on the genesis of pyritic deposits. Dokl. AN SSSR 156 no. 3:592-593 '64. (MIRA 17:5)

1. Predstavleno akademikom V.I.Smirnovym.

GE[illegible], Anna Lazarevna; KOLBASOVA, Roza Borisovna; LEVINA, Ye.S., ved. red.

[Petroleum sulfo acids; their production and use] Neftianye sul'fokisloty; proizvodstvo i primenenie. Moskva, Izd-vo "Khimiia," 1964. 143 p. (MIRA 17:6)

GVOZDEV, V.S.; VAKHRAMEYEV, B.A.; GERMAN, A.L.; KOSTIN, K.F.

[Equipment of agricultural hydroelectric stations] Oborudovanie sel'skokhoziaistvennykh gidroelektricheskikh stantsii. Sverdlovsk, Ob"edinennoe nauchno-tekhn. izd-vo mashinostroit. i sudostroit.lit-ry [Uralo-Sibirskoe otd-nie] 1953. 231 p. (MLRA 6:12)

(Hydroelectric power stations)

GERMAN, A.L. PUNGER, A.S.: VAKHRAMEYEV, B.A.; OKULOV, I.B.; VAKHRAMEYEV, D.F., inzhener, retsenzent; BAUMAN, N.Ya., inzhener, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Technology of the production of small and medium hydraulic turbines] Tekhnologiia proizvodstva malykh i srednikh gidroturbin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 399 p. [Microfilm] (Hydraulic turbines) (MLRA 8:3)

BAYEV,A.V., inzhener; GERMAN,A.L., inzhener; ZYKOV,S.I., tekhnik

Investigation and testing of Ural hydrostations equipped with horizontal turbines with runners of the P140 type. Nauch.trudy VIESKH no.1:208-220 '54. (MLRA 8:11)

1. Sverdlovskiy filial Vsesoyuznogo Instituta elektrifikatsii sel'skogo khozyaystva
(Sverdlovsk Province--Hydraulic turbines)

KARASEVA, Ye.V.; GERMAN, A.L.; KORENBERG, E.I.

The nutrition of the hen harrier and its effect on the course of epizooty of leptospirosis among field voles. Biul.MOIP. Otd. biol.60 no.4:126 Jl-Ag'55. (MLRA 8:12)
(HARRIERS) (FIELD MICE) (LEPTOSPIROSIS`

AKHMEDOV, M.N.; GERMAN, A.L.

Establishing expenditure norms of alkali for leaching petroleum distillates. Azerb.neft.khoz.35 no.9:27-28 S '56. (MLRA 9:12)
(Leaching) (Petroleum--Refining)

KARASEVA, Ye.V.; PETELINA, L.P.; GERMAN, A.L.

Studying natural foci of leptospirosis in Akmolinsk Province.
Biul.MOIP.Otd.biol. 61 no.6:123 N-D '56. (MIRA 10:8)
(AKMOLINSK PROVINCE--RODENTS AS CARRIERS OF DISEASE)
(LEPTOSPIROSIS)

GVOZDEV, Vlas Semenovich, kand.tekhn.nauk; VAKHRAMEYEV, Boris Alekseyevich, inzh.; GERMAN, Avraam L'vovich, inzh.; KOSTIN, Konstantin Fedorovich, inzh.; LEVINTOV, Samuel' Davidovich, kand.tekhn.nauk; TARASOV, A.S., inzh., retsenzent; YERMAKOV, N.P., tekhn.red.

[The equipment of rural hydroelectric power plants] Oborudovanie sel'skikh gidroelektricheskikh stantsii. Izd. 2-oe, perer. Pod obshchei redaktsiei V.S.Gvozdeva. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 423 p. (MIRA 11:2)
(Hydroelectric power stations)

KARASEVA, Ye.V.; GERMAN, A.L.; KORENBERG, E.I.

Feeding habits of the hen harrier and its influence on the populations of the field vole Microtus oeconomus during an epizooty of nonicterogenic leptospirosis [with summary in English]. Biul. MOIP. Otd.biol. 62 no.1:11-18 Ja -F '57. (MIRA 10:6)
(ROSTOV DISTRICT--HARRIERS) (LEPTOSPIROSIS)
(FIELD MICE)

PHASE I BOOK EXPLOITATION SOV/4731

German, Avraam L'vovich, and Ivan Nikolayevich Skoblin

Montazh, ekspluatatsiya i remont oborudovaniya malykh i srednikh gidroturbin (Assembly, Operation, and Repair of the Equipment of Small and Medium-Sized Hydraulic Turbines) Moscow, Mashgiz, 1959. 260 p. 3,500 copies printed.

Reviewer: V.N. Vorob'yev, Engineer; Ed.: N.Ya. Bauman, Engineer; Managing Ed. (Ural-Siberian Department, Mashgiz): M.A. Bezukladnikov, Engineer; Tech. Ed.: N.A. Dugina.

PURPOSE: This book is intended for qualified technical personnel engaged in the assembly, operation, and repair of the equipment of small and medium-sized hydroelectric stations.

COVERAGE: The book gives principles of operation, design, technology of assembly and repair of hydroturbines, automatic speed regulators, and auxiliary equipment. The authors describe the starting, tuning, and operation of the mechanical equipment of small and medium-sized hydroelectric stations and discuss difficulties in the operation of hydromechanical equipment. Information is given on the

Card 1/9

Assembly, Operation, and Repair of the Equipment (Cont.) SOV/4731

causes of such difficulties and the means for eliminating them. Some methods for increasing the power of hydroelectric stations and the output of electrical energy are also discussed. Chaps. I, III, and V were written by Engineer I.N. Skoblin and Chs. II and IV by Engineer A.L. German. No personalities are mentioned. There are 31 references, all Soviet.

TABLE OF CONTENTS:

Card 2/9

GERMAN, A.L.

Restoration of beavers in the Lapland Preserve. Biul.MOIP. Otd.biol. 65 no.3:13-19 My-Je '60. (MIRA 13:7)
(LAPLAND PRESERVE--BEAVERS)

PHASE I BOOK EXPLOITATION SOV/5863

German, Avraam L'vovich, and Boris Alekseyevich Vakhrameyev

Montazh i ekspluatatsiya lopastnykh nasosov (Installation and Operation of Rotary and Centrifugal Pumps) Moscow, Mashgiz, 1961. 179 p. 12,000 copies printed.

Reviewer: A. V. Sakhnin, Engineer; Tech. Ed.: N. A. Dugina; Executive Ed. of Ural-Siberian Department (Mashgiz): M. A. Bezukladnikov, Engineer.

PURPOSE : This book is intended for personnel concerned with the installation and operation of rotary and centrifugal pumps.

COVERAGE: The book gives general information on rotary and centrifugal pump designs and their classification and selection. The installation, starting, adjusting, repairing, and testing of typical pumps are discussed. Material on types K, NDS, and 48D-22 centrifugal pumps, types PrV, O, and OR axial-flow

Card 1/6

Installation and Operation of (Cont.) SOV/5863

pumps, type V vertical pumps, and 14M12x pumps is included. Attention is given to developmental trends. Specifications, drawings, and diagrams of 54 pumps are given. No personalities are mentioned. There are 33 references, all Soviet.

TABLE OF CONTENTS:

Card 2/6

GERMAN, A.L.

The degree of resistance to water deficiency in some murine rodents of the steppe zone. Zool. zhur. 40 no.6:914-921 Je '61.
(MIRA 14:6)

1. The Darwin Musem, Moscow.
(Steppe fauna)
(Thirst)

GERMAN, A.L.

Water deficiency and changes in the water loss through the skin and lungs in some murine rodents. Biul.MOIP.Otd.biol. 67 no.4: 137-139 Jl-Ag '62. (MIRA 15:10)
(RODENTIA) (WATER METABOLISM)

CHEGODAYEV, M.V., inzhener; GERMAN, A.M., inzhener; PAVLOV, P.T., inzhener.

Demonstration building of apartment houses with walls made of large silicate blocks. Nov.tekh.i pered.op.v stroi. vol.19:8-13 Ag '57. (MIRA 10:10)

(Apartment houses) (Building blocks)

GERMAN, A.N., veterinarnyy vrach; ZOZULYA, Ye.A., veterinarnyy vrach; SUKHENKOV, G.Ye.

Sangu icolosis of carp. Veterinariia 41 no.8:54-55 Ag '64. (MIRA 18:4)

1. Respublikanskaya veterinarnaya laboratoriya Ukrainskoy SSR (for German, Zozulya). 2. Ukrainskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva (for Sukhenkov).

GERMAN, A.N., inzh.; KRAVKIN, V.M., inzh.

Automatic supply of air to the boiler of an oil-pressure system. [Trudy] LMZ no.10:333-342 '64. (MIRA 18:12)

GURMAN, A. M., and MARTIN, A. N.

Reservior for application of heat and cold. Veterinariya 29(1), 1952, p 57.

KARPIN, Z.K.; GERMAN, A.N.

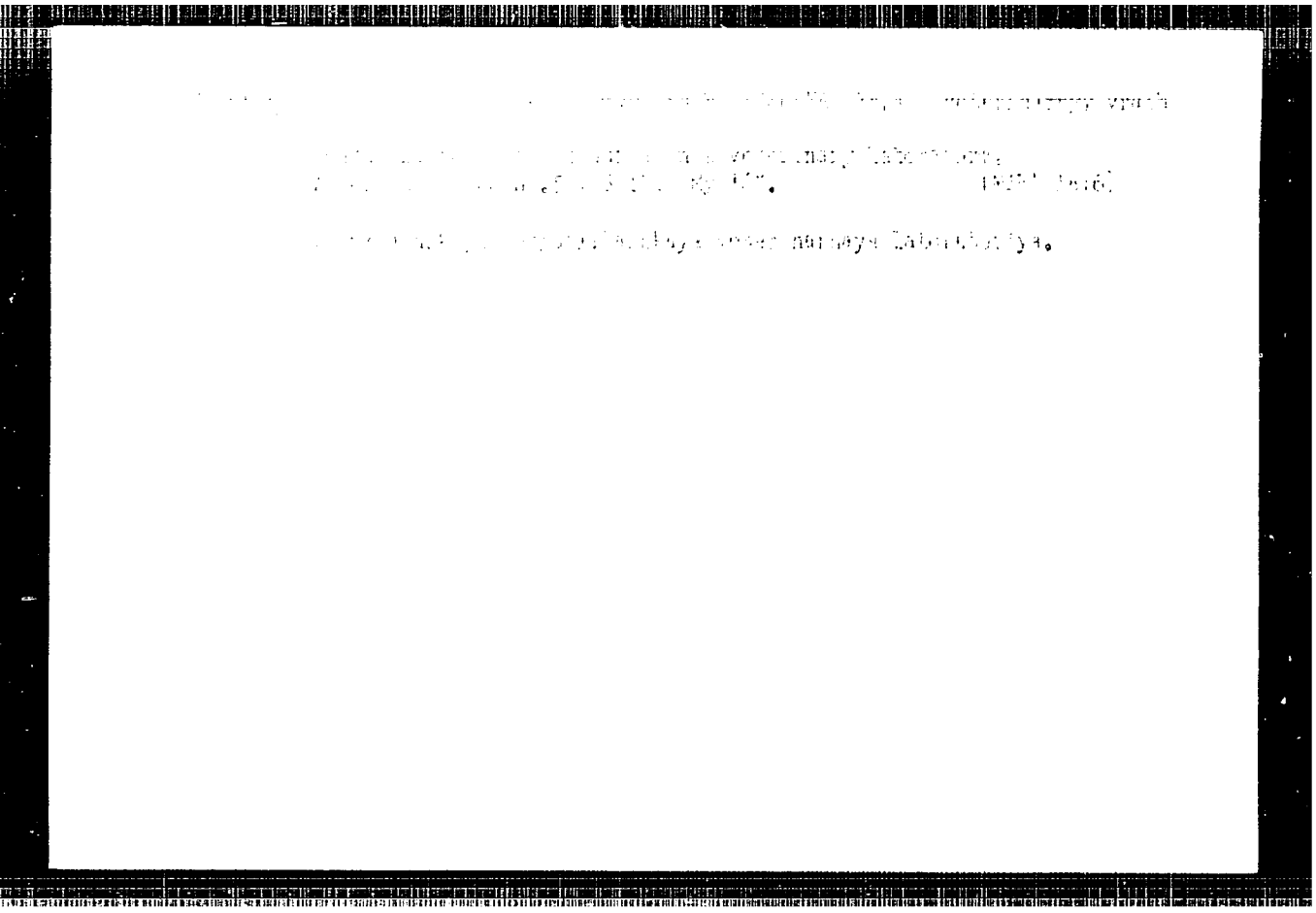
Professor I.A. Bocharov. "Special pathology and therapy of internal non-infectious diseases of domestic animals. Veterinariia 39 no.1; 58-62 Ja '53. (MLRA 6:1)

GERMAN, A.N., inzh.

Automation of large hydraulic turbine plants. Energomashinostroenie 4 no. 6:7-10 Je '58. (MIRA 11:8)
(Automatic control)
(Hydroelectric power stations)

GERMAN, A.N., inzh.

Development of the automatic control of power units in hydroelectric power plants in the U.S.S.R. Elektrostantsii 11 no.3:8-10 Mr '55. (MLRA 8:6)



ACC NR: AP7002773 SOURCE CODE: UR/0114/66/000/006/0001/0005

AUTHOR: German, A. N. (Engineer) 35 E

ORG: none

TITLE: Electrohydraulic hydroturbine regulators

SOURCE: Energomashinostroyeniye, no. 6, 1966, 1-5

TOPIC TAGS: turbine, water turbine

ABSTRACT: The peculiarities and advantages of electrohydraulic hydroturbine regulators have been discussed. From 1962, such electrohydraulic regulators are produced by the Leningrad Metal Plant im. XXII Congress of the CPSU (LMZ im. XXII s"yezda KPSS) for radial-axial hydroturbines EGR-100 and EGR-150 with a single control organ, and for rotating vane hydroturbines EGRK-100 and EGRK-150 with two control organs. The paper presents detailed diagrams of the electric and hydromechanical parts of the regulator, discusses the operation of the regulator under different operating conditions, and describes the construction of the basic elements of the regulator. Orig. art. has: 2 figures. [JPRS: 38,202]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 002

Card 1/1 UDC: 62-523.3.621.224 0925 1651

GERMAN, A. P. DECEASED

Mining see ILC

GERMAN, A.R.

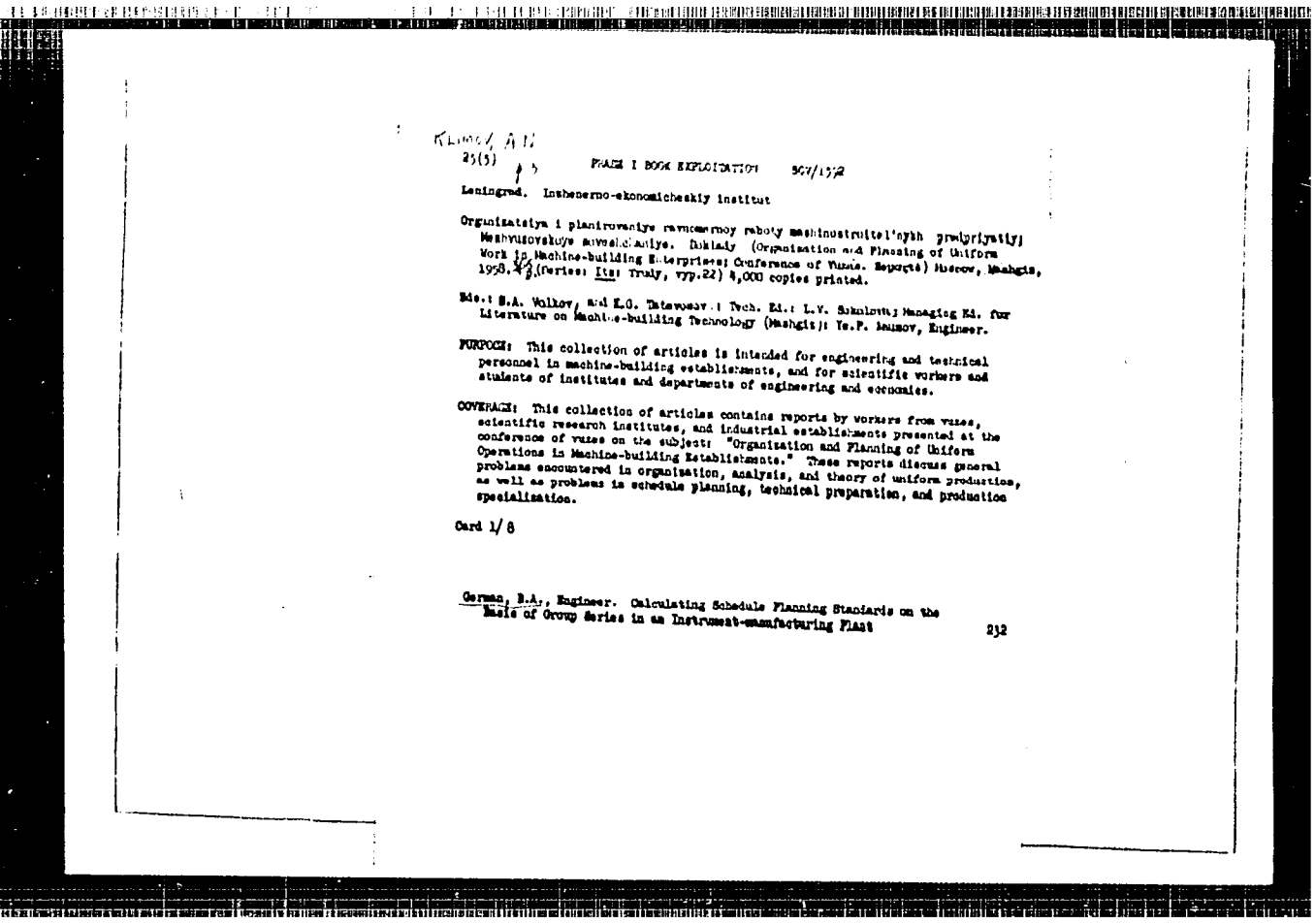
Plastic dies for the manufacture of automobile body parts. Avt. prom. no. 1:38-39 Ja '61. (MIRA 14:4)

1. Gor'kovskiy avtozavod.
(Dies (Metal working)) (Plastics)

GERMAN, A.Yu.; ZAKHAROV, V.Z.; NOVIKOV, I.I.; ROGEL'BERG, I.L.

Reduction of the plasticity of metals annealed following small plastic deformations. Izv.vys.ucheb.zav.; tsvet.met. 3 no.2: 156-160 '60. (MIRA 15:4)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallovedeniya.
(Annealing of metals) (Plasticity)



25(5) PHASE I BOOK EXPLOITATION SOV/1572

Leningrad. Inzhenerno-ekonomicheskiy institut

Organizatsiya i planirovaniye ravnomernoy raboty mashinostroitel'nykh predpriyatiy; Mashinostroitel'nyye avtomaticheskiye. Doklady (Organization and Planning of Uniform Work in Machine-building Enterprises; Conference of Vuzes. Reports) Moscow, Mashgiz, 1958. 423 p. (Series: Its: Trudy, vyp.22) 4,000 copies printed.

Eds.: S.A. Volkov, and K.G. Tatevosov; Tech. Ed.: L.V. Sukolova; Managing Ed. for Literature on Machine-building Technology (Mashgiz): Ye.P. Naumov, Engineer.

PURPOSE: This collection of articles is intended for engineering and technical personnel in machine-building establishments, and for scientific workers and students of institutes and departments of engineering and economics.

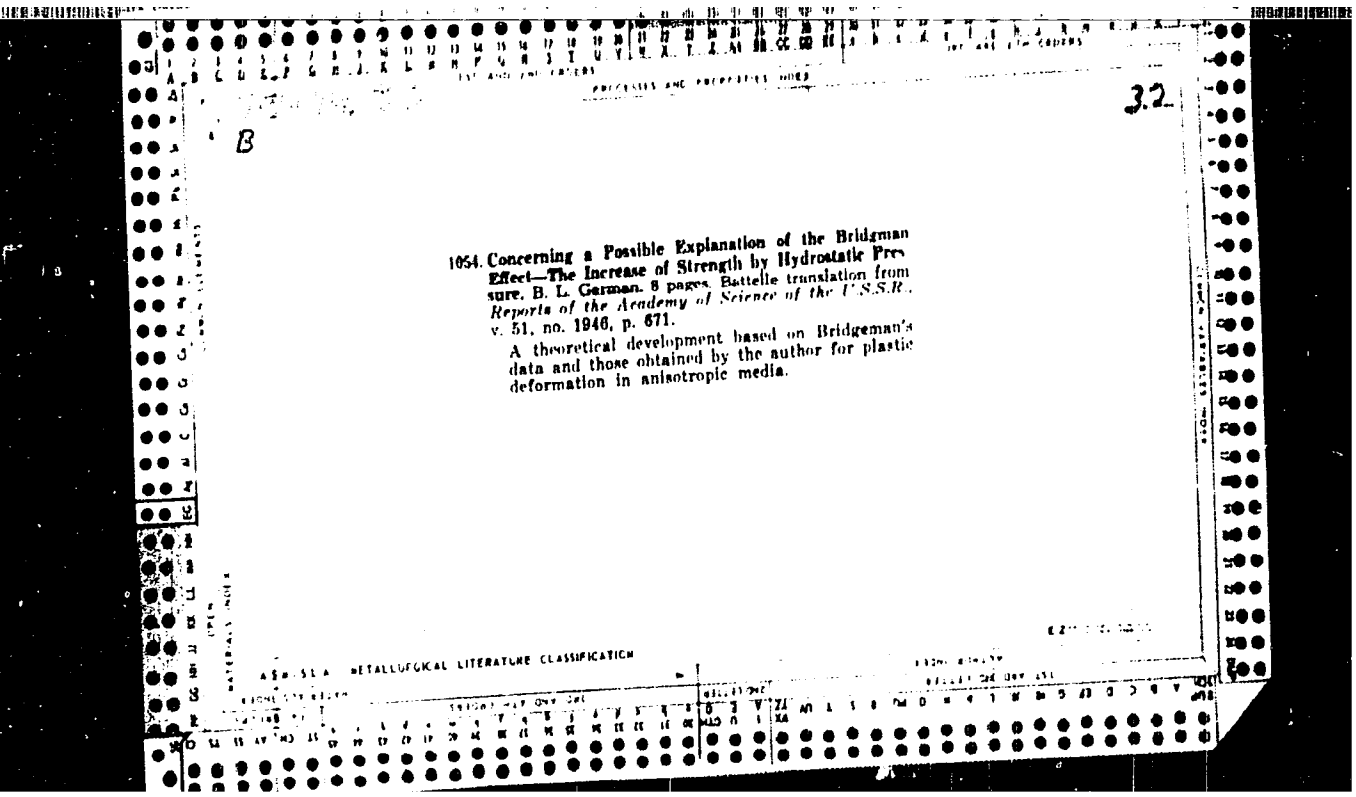
COVERAGE: This collection of articles contains reports by workers from vuzes, scientific research institutes, and industrial establishments presented at the conference of vuzes on the subject: "Organization and Planning of Uniform Operations in Machine-building Establishments." These reports discuss general problems encountered in organization, analysis, and theory of uniform production, as well as problems in schedule planning, technical preparation, and production specialization.

Card 1/8

German, B.A., Engineer. Calculating Schedule Planning Standards on the Basis of Group Series in an Instrument-manufacturing Plant 232

GERMAN, B.A., inzh.

Establishing schedule-plan norms for group units in instrument plants. Trudy LIEI no.22:232-245 '58. (MIRA 11:12)
(Industrial management)



B

3.2

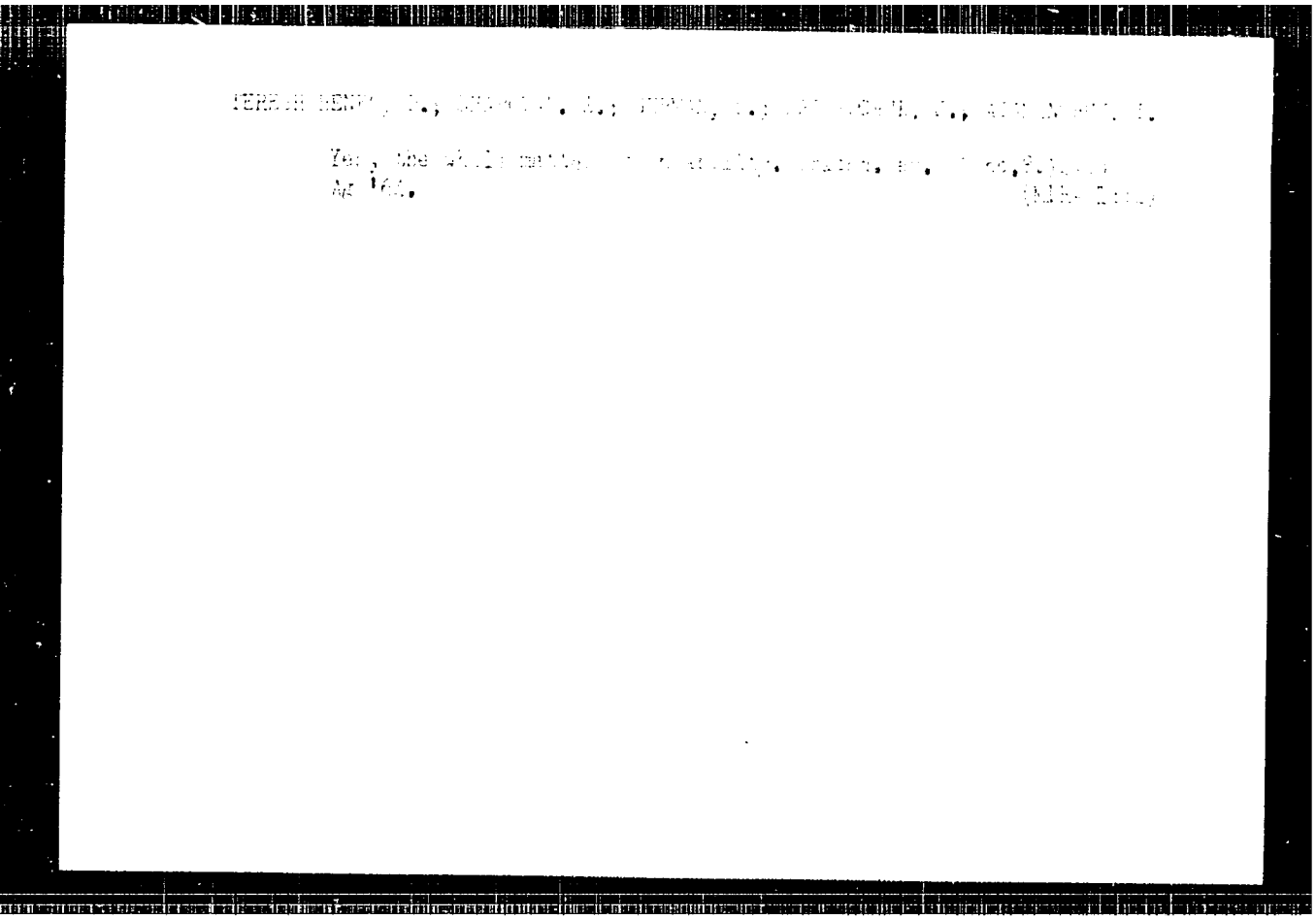
1054. **Concerning a Possible Explanation of the Bridgman Effect—The Increase of Strength by Hydrostatic Pressure.** B. L. Carman. 8 pages. Battelle translation from *Reports of the Academy of Science of the U.S.S.R.*, v. 51, no. 1946, p. 671.

A theoretical development based on Bridgeman's data and those obtained by the author for plastic deformation in anisotropic media.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

GERMAN, B.M., inzh.

Experience in operating oil cutouts during the winter in the Ural Mountain Region. Energetik 10 no.3:8-10 Mr '62. (MIRA 15:2)
(Ural Mountain region--Electric cutouts)



GERMAN, D.G.

Clinical aspects, pathological anatomy, and pathogenesis of diseases of the central spinal canal in closed injuries of the spine. Zdravookhranenie 3 no.6:33-37 N-D '60. (MIRA 13:12)

1. Iz kafedry nervnykh bolezney (zav. - z. d. n. prof. B.I. Sharapov) Kishinevskogo meditsinskogo instituta.
(SPINAL CORD--DISEASES)
(SPINE--WOUNDS AND INJURIES)

GERMAN, D.G.

Morphological changes in the meninges of the spinal cord in closed injury to the spine in an experiment. Zdravookhranenie 5 no.1:38-42 Ja-F '62. (MIRA 15:4)

1. Iz kafedry nervnykh bolezney (zav. prof. B.I.Sharapov) Kishinevskogo meditsinskogo instituta;

(SPINAL CORD) (SPINE--WOUNDS AND INJURIES)

SHARAPOV, B.I., prof., otv. red.; BOGOLEPOV, N.K., prof., red.; GERMAN, D.G., ass., red.; LEKAR', P.G., dots., red.; SHOYMER, A., otv. za vypusk; TEL'PIS, V., tekhn. red.

[Vascular pathology of the brain and spinal cord; materials of a joint symposium of the nervous disease clinics of the Kishinev and Second Moscow Medical Institutes]Sosudistaia patologiia golovnogo i spinnogo mozga; materialy ob"edinennogo simpoziuma klinik nervnykh boleznei Kishinevskogo i 2-go Moskovskogo meditsinskikh institutov. Kishinev, Gos.izd-vo "Kartia moldovenieske," 1962. 177 p. (MIRA 15:10)

(CEREBROVASCULAR DISEASE) (SPINAL CORD--BLOOD SUPPLY)

GERMAN, D.G.

Cahnges in the nerve cells of the pia mater of the spinal cord in closed injuries. Zdravookhranenie 6 no.3:37-40 My-Je '63 (MIRA 16:11)

1. Iz kafedry nervnykh bolezney (zav. - zasluzhennyy deyatel' nauki prof. B.I.Sharapov) Kishinevskogo meditsinskogo instituta.

*

GERMAN, D.L.

Two-stage rupture of the spleen. Zdravookhranenie 2 no.4:52-53 Jl-Ag '59. (MIRA 14:6)

1. Iz uchastnoy bol'nitsy s. Minzhir Karpinskogo rayona (glavnyy vrach V.I.Meshcherkin).
(SPLEEN--RUPTURE)

GERMAN, D.

"First aid and care of the health" by O.Belea. Reviewed by D. German. Zdravookhranenie 2 no.4:58-59 Jl-Ag '59. (MIRA 14:6)

1. Predsedatel' TSentral'nogo komiteta Obshchestva Krasnogo Kresta Moldavskoy SSR.
(FIRST AID IN ILLNESS AND INJURY)

FAZAKASH, I.; GERMAN, E.

Albers-Schonberg disease. Khirurgiia, Sofia 10 no.8:682-690 1957.

1. Kluzh--Rumuniia.
(OSTEOPETROSIS, case reports
Albers-Schonberg dis.)

TEMKIN, O.N.; FLID, R.M.; GERMAN, E.D.; ONISHCHENKO, T.A.

Soluble complexes of unsaturated hydrocarbons with metal salts, and their role in catalytic reactions. Part. 1: Soluble compounds of acetylene with copper salts. Kin. i kat. 2 no.2:205-213 Mr-Ap '61. (MIRA 14:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Copper compounds)
(Acetylene compounds)

9.3400

SOV/79-30-2-76/79

AUTHORS: Temkin, O. N., German, E. D., Flid, R. M.

TITLE: Letters to the Editor. The Part of Proton Acids in Certain Catalytic Conversions of Acetylene

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, p 699 (USSR)

ABSTRACT: The relation between metal ion activity in solution and proton activity in the addition reactions of acetylene was investigated. Hydration of acetylene was carried out in contact solution containing $Cu_2SO_4 - H_2SO_4$. The latter was prepared by boiling $CuSO_4 + H_2SO_4$ with metallic copper in nitrogen. The concentration of $CuSO_4$ in all cases was 0.0128 mole. It was established that conversion of acetylene decreases with increase of the acid concentration, caused by formation of copper acetylides, until concentration of acid reaches 10%. At this point, acetaldehyde is formed. Introduction of the acetylene into solution decreases potential of

Card 1/2

Letters to the Editor. The Part of Proton Acids in Certain Catalytic Conversions of Acetylene

SOV/79-[illegible]

the copper electrode from E_1 to E_2. Passing nitrogen through the contact solution increases this potential to a value smaller than E_1. It was established that the termination of the formation of acetylides and the maximum concentration of acetaldehyde takes place at a definite ratio of potential to proton activity. There are 5 Soviet references.

Card 2/2

GERMAN, E.D.; RAYEVSKIY, A.B.; LEZHENIN, V.M.

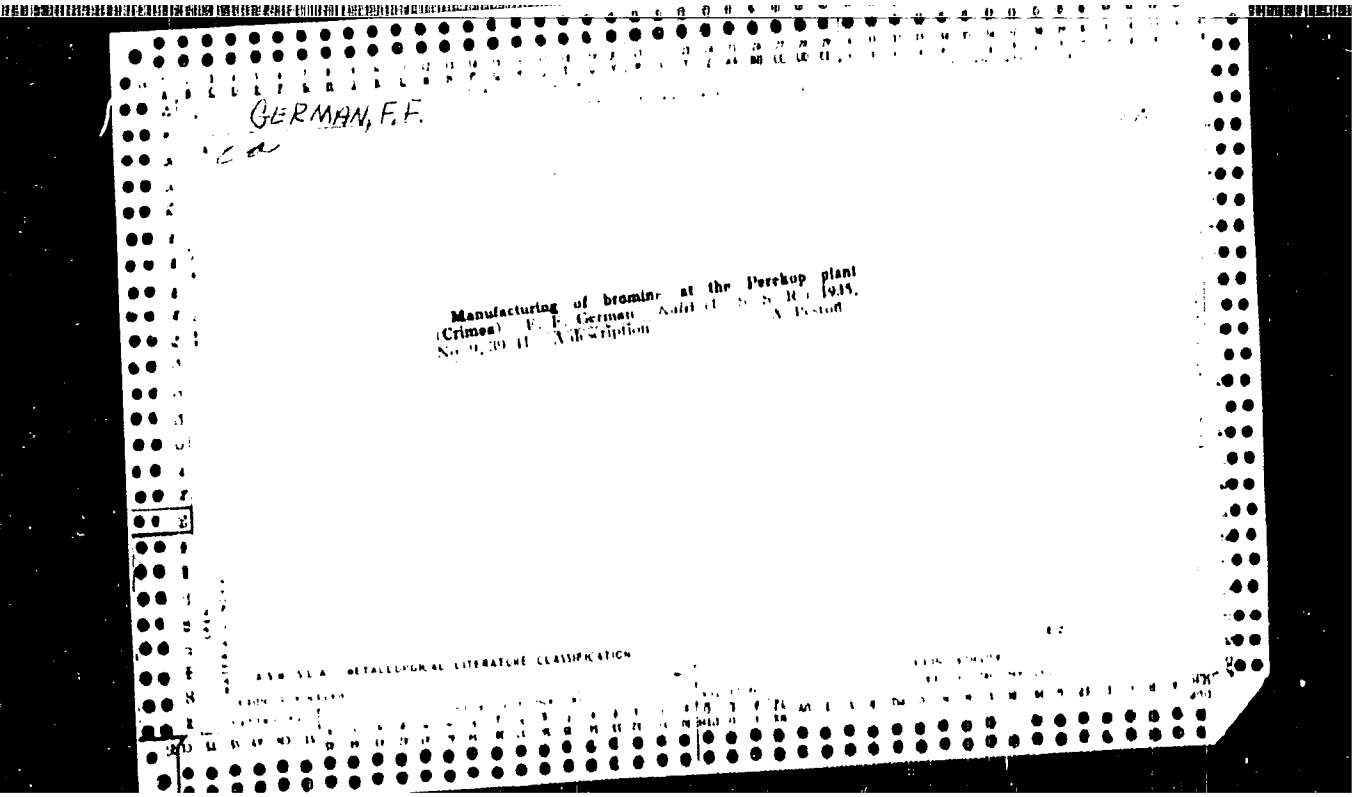
Inhibition of emulsion polymerization. Vysokom. soed. 5 no.10:1496-1498 O '63. (MIRA 17:1)

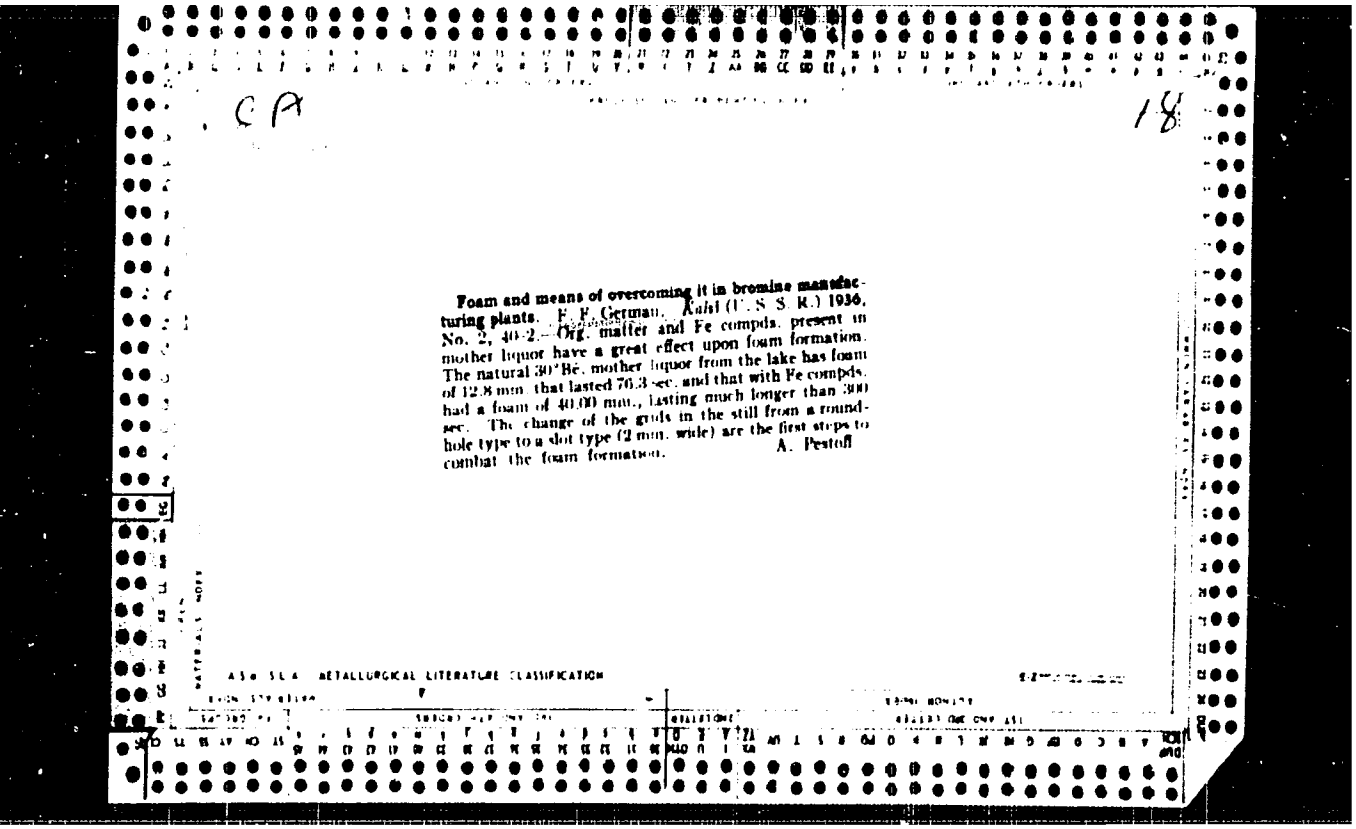
1. Voronezhskiy filial nauchno-issledovatel'skogo instituta sinteticheskogo kauchuka imeni S.V. Lebedeva.

GERMAN, E.D.; LEVIN, A.A.; [illegible]

Spin-orbital interaction [illegible] molecules with open shells. Zhur. strukt. khim. 4:617-18 Jl-Ag '63
(MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted December [illegible], 1962.





CA

18

Foam and means of overcoming it in bromine manufacturing plants. F. F. German. *Khim.* (U. S. S. R.) 1936, No. 2, 40-2.—Org. matter and Fe compds. present in mother liquor have a great effect upon foam formation. The natural 30° Bé. mother liquor from the lake has foam of 12.8 mm. that lasted 76.3 sec. and that with Fe compds. had a foam of 40.00 mm., lasting much longer than 300 sec. The change of the grids in the still from a round-hole type to a slot type (2 mm. wide) are the first steps to combat the foam formation. A. Pestoff

ASTIA METALLURGICAL LITERATURE CLASSIFICATION

GERMAN, F.F.

Use of reinforced concrete in equipment for the bromine industry.
Khim.prom. no.2:105-106 Mr '56. (MLRA 9:8)
(Bromine) (Reinforced concrete)

GERMAN, F.F.

Method for chlorination of chlorine water brines in the production of bromine. Khim. prom. no.3:171-172 Ap-My '56. (MLRA 9:10)

(Brines) (Chlorination) (Bromine)

GERMAN, F.F., inzh.

Reinforced concrete in the bromine. Bet. i zhel.-bet. no.9:372-373 S '57. (MLRA 10:11)

(Reinforced concrete) (Bromine)

AUTHOR: ~~German, P. P.~~ (Engineer). 07-57-3-12/17

TITLE: Reinforced Concrete in the Bromine Industry. (Zhelezo-beton v bromnoy promyshlennosti).

PERIODICAL: Beton i Zhelezobeton, 1957, Nr.3. pp. 372-373. (USSR).

ABSTRACT: Bromine and its chemical compounds appear to be strong corrosive agents as far as concrete is concerned. Therefore, until recently vessels in the bromine industry have been made from granite, "beshtaunit", andesite, ceramic, glass, acid-resisting brick, and timber. Timber is used only in the case of strongly diluted bromine. For strong concentrations andesite vessels can be used. This last material is very difficult to work and to render waterproof. Ceramic and glass vessels are limited as to size, and are very costly. After investigation, reinforced concrete was found to be the most suitable non-corrosive durable material capable of mass-production. Vessels from reinforced concrete were produced: one type to serve absorption of bromine from bromine-air mixture, and another for absorption of bromine from the same mixture by means of lime. The first type of vessel is made in the form of a reinforced concrete cylinder with a spherical bottom - 6 m high, 4 m diameter, with walls

Card 1/3

0.12 m thick - positioned on a foundation 4.6 m diameter and 4.1 m high. The walls are pierced by 700 x 700 mm perforations. This vessel has to withstand temperatures between 50 and 70oC, and in exceptional cases up to 200oC. It has to withstand a load of 20 tons, and temperatures ranging from 60 - 200oC, affecting simultaneously various levels of the vessel. The steel reinforcement of the wall consists of 65 bars of 10 mm diameter and 36 rings of the same diameter. The concrete mix was prepared with cement of 300 kg/cm^2 activity. After 28 days of hardening, rendering was applied to the inner faces, made of cement with 400 kg/cm^2 activity. Vessels constructed in 1952 were investigated to ascertain the condition, and no sign of deterioration of concrete was found to have taken place. Another type of reinforced concrete vessel used consisted of 4 sections. These sections were constructed from concrete made from Portland cement Mark 300. The wall of the lower section was 200 mm thick, and the following sections 160, 120 and 80 mm thick. To secure the required strengths, these units were reinforced by 25 mm steel bars. The internal face was rendered with cement Mark 400. The vessel was used for absorption solution of lime containing 5 - 8% active calcium oxide. No corrosion

Reinforced Concrete in the Bromine Industry. 97-57-3-12/17

of the concrete was found in this vessel. Various other vessels were made from reinforced concrete, e.g. for crystallization of ferric chloride, for the reduction of ferric bromide to ferrous bromide, and for solutions of various bromide salts.

AVAILABLE: Library of Congress.

1. Bromine industry 2. Concrete vessels-Applications 3. Concrete vessels-Production 4. Concrete vessels-Characteristics

Card 3/3

GERMAN, F.L., uchitel'nitsa.

Herbarium notebooks of botany students. Biol. v shkole no.4: 33-35 Jl-Ag '58. (MIRA 11:9)

1. Shkola No. 63 g.Moskvy.
(Botany--Study and teaching) (Herbaria)

GLIGORE, V., dotsent, doktor; GERMAN, G.; DIMITRESKU, I.; BACHU, T.; CHOFU, G.; KUTUSH, K.; FEKETE, T.

Problem of peptic ulcer in elderly people. Klin.med. 37 no.10:41-44 O '59. (MIRA 13:2)

1. Iz 2-y meditsinskoy kliniki (zaveduyushchiy - prof. doktor I.Goya) Mediko-farmatsevticheskogo instituta g. Klush.
(PEPTIC ULCER in old age)

L 30131-66 EWP(j) RM
ACC NR: AP6020353 SOURCE CODE: RU/0003/65/016/008/0382/0384

AUTHOR: German, I. A.; Ciot, N. 31

ORG: none B

TITLE: Gas-chromatographic analysis of the chlorinated derivatives of methane and ethane

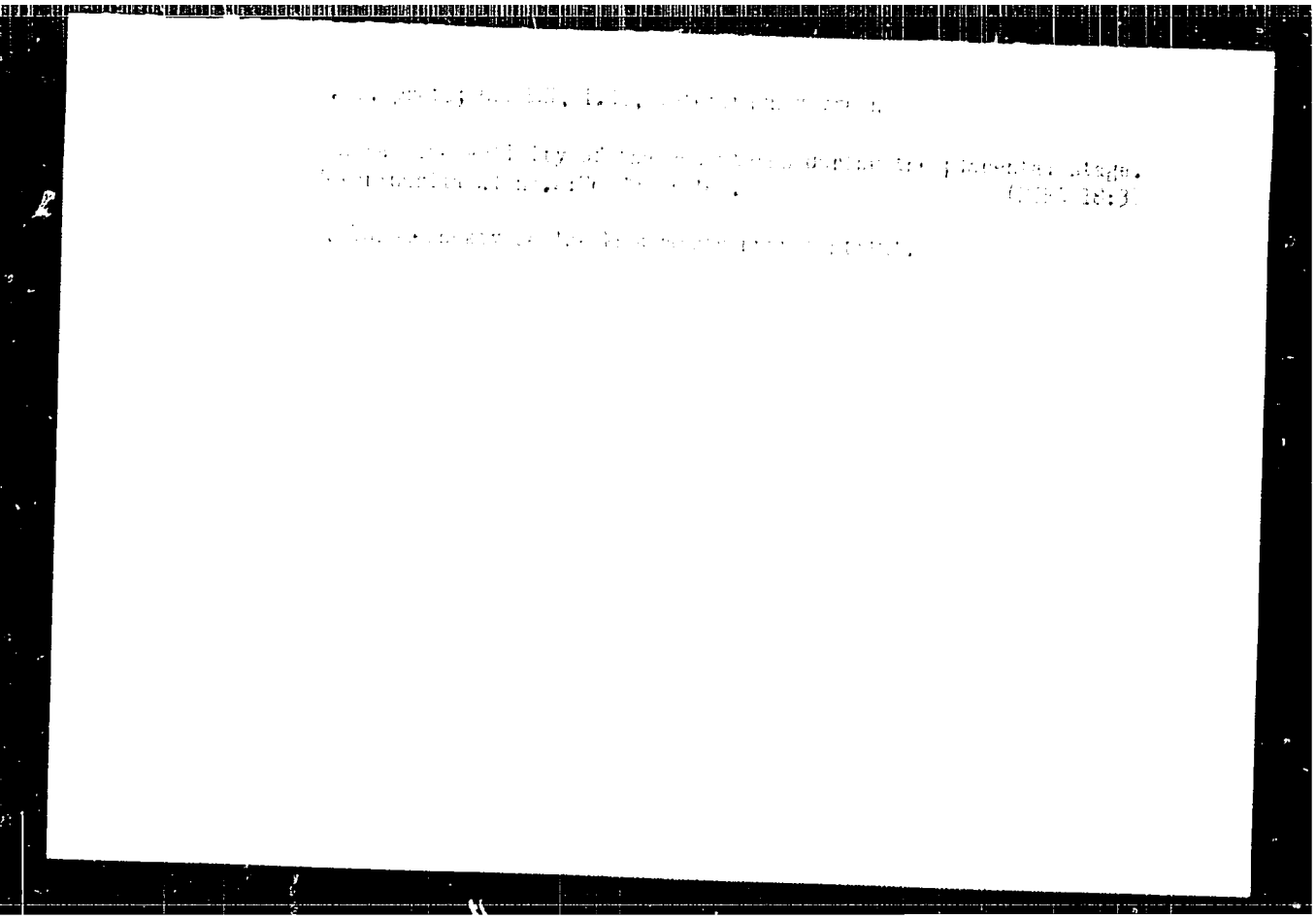
SOURCE: Revista de chimie, v. 16, no. 8, 1965, 382-384

TOPIC TAGS: gas chromatography, chlorinated organic compound, methane, ethane, nonmetallic organic derivative, vinyl chloride, methylene chloride

ABSTRACT: The authors discuss the determination of the composition of methylene chloride, vinyl chloride and trichloroethylene. The apparatus and techniques for the gas-chromatographic determination of each substance are presented, and the results are analyzed statistically. Orig. art. has: 4 figures and 5 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: none / OTH REF: 004 / SOV REF: 001

Card 1/1



GERMAN, I.G., veterinarnyy vrach; AKATOV, V.A., prof., nauchnyy rukovoditel' raboty

Motility of the uterus in cows after deliveries. Veterinariia 42 no.9:81-83 S '65. (MIRA 18:11)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

FEYGIN, G.D.; GERMAN, I.M.; YAGODIN, L.I.

Durability of iron mill rolls. Metallurg 9 no.3:30-33 Mr '64.
(MIRA 17:3)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.

GERMAN, I.Z., inzh.

Awarding a bonus for improving working conditions. Bezop. truda v prom. 2 no.7:32-33 Jl '58. (MIRA 11:9)

1. Nachal'nik Bukachachinskogo shakhtoupravleniya Chitinskogo sovnarkhoza.
(Mining engineering--Safety measures)

ROZNO, A.I.; GERMAN, I.Z.

Case of essential progressive osteolysis. Ortop. travm. protez. 24 no.7:52-53 Jl '63 (MIRA 17:2)

1. Iz sanatoriya "Livadiya" (dir. N.P.Dadayan). Adres avtorov: Yalta, sanatoriy Livadiya, korpus 30, kv.16.)

GERMAN, K.I.K.

25292 GERMAN, K.I.K. Voprosy O Patogeneze Legochnykh Oslozhneniy Pri Elektrosudorozhnoy Terapii. Sbornik Nauch. R Iot Psikhiatr. Bolnitsy I.P. Kashchenko, M., 6. 1948, S. 170-78

SO: Letopis' No. 3, 1949

GERMAN, K.P., inzh.; MINCHIN, A.G., inzh.

High-capacity rotary bucket excavator. Ugol' Ukr. 5 no.12: 38-39 D '61. (MIRA 14:12)

(Excavating machinery)
(Donets Basin--Strip mining)

AUTHOR: German, L. D.

7-58-4-6/13

TITLE: Geochemical Zonality in the Blyava Deposit on the Western Slope of South Ural (Geokhimicheskaya zonal'nost' v mestorozhdenii Blyava na zapadnom sklone Yuzhnogo Urala)- In Connection With the Migration of Elements in the Oxidation Zone and the Formation of the Crust of Weathering (v svyazi s migratsiyey elementov v zone okisleniya i obrazovaniyem kory vyvetrivaniya)

PERIODICAL: Geokhimiya, 1958, Nr 4, pp. 342 - 358 (USSR)

ABSTRACT: The paper deals with:
The geological position of the deposit, the behavior of individual elements during migration, and with geochemical zonality.

I) Principal chalcophilous elements: Cu, Zn, S, Fe (in sulfides)

II) Additional chalcophilous elements: Ag, Au, Pb, As, Mo, Co; Ba and Ca behave in a similar during migration.

III) Lithophilous elements: according

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Geochemical Zonality in the Blyava Deposit on the Western Slope of South Ural. In Connection With the Migration of Elements in the Oxidation Zone and the Formation of the Crust of Weathering

2 subgroups can be distinguished:

1) Ca, Mn, Na, Fe (in rocks), Si, V;

2) Mg, Al, Ti, Ni, Co (in rocks) often behave like transition members to the chalcophilous elements.

IV) Other elements (all rare and disperse elements)

1) Elements the rôle of which is neither clear nor important, the form of fixation in minerals of the oxidation zone is not determined and investigated: Sc, Sr, Zr, Cr, Ni, Cl, Br, J; and also P.

2) Elements which accompany the ore body: In, Sn, Bi, Cd, Sb, Co, Se, Te, Ge, Be.

Final conclusions:

1) Single groups of elements with similar behavior were determined.

Card 2/4 2) It was found that the migration processes are directed

Geochemical Zonality in the Blyava Deposit on the Western Slope of South Ural. In Connection with the Migration of Elements in the Oxidation Zone and the Formation of the Crust of Weathering

towards a scattering of the ore components, and that single elements are separated in a certain distance from the ore bodies.

3) Zonality was determined for a series of elements in the horizontal as well as in the vertical line.

4) The sequence of the hypergeneously changed zones may convey to the prospecting geologist a sufficiently precise idea concerning the position and the depth of the ore occurrence and its composition.

5) The rules mentioned in the pyrite deposit of Blyava can be exploited in the prospecting of geologically similar deposits.

There are 8 figures and 11 references, 11 of which are Soviet.

Card 3/4

Geochemical Zonality in the [illegible] deposit on the eastern slope of south Ural. In Connection with the [illegible]tion of Elements in the Oxidation Zone and the Formation of the Crust of Weathering

307/7-58-4-6/13

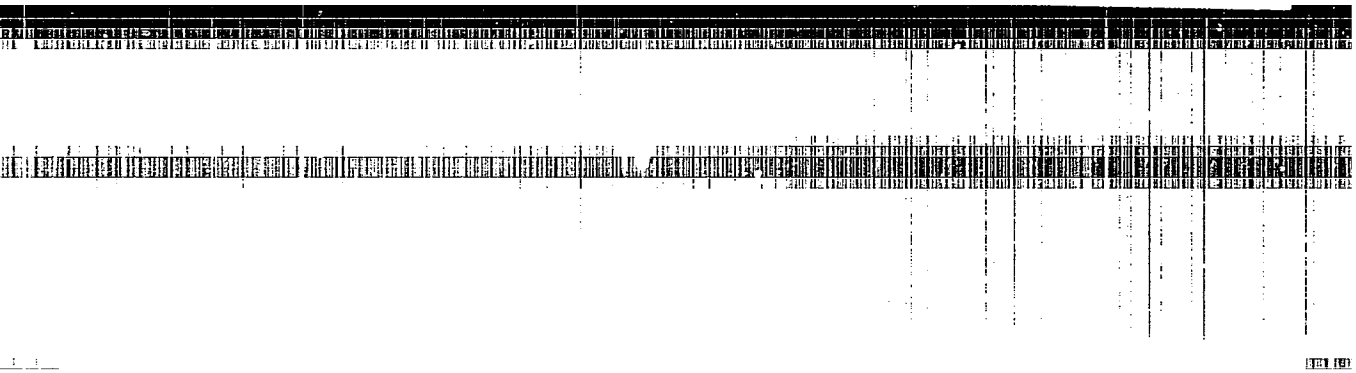
ASSOCIATION: The work was carried out at the:
Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN [illegible]
(Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, AS [illegible])

SUBMITTED: May 8, 1957

1. Minerals--Geology 2. Minerals--Properties 3. Rare earth elements--Properties 4. Ores--Analysis

Card 4/4

GERMAN, L.D., Cand Geol Min Sci -- (diss) "Element distribution in the oxidation zone of the Blyavinskiy deposit and their fixation [illegible]." Mos, 1959, 19 pp (Acad Sci USSR. Inst of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry) 150 copies (KL, 38-59, 112)



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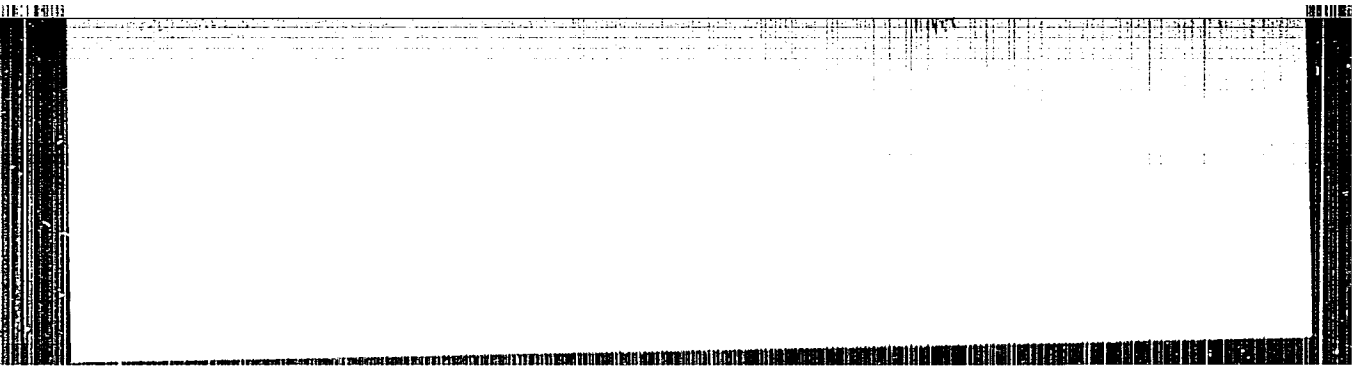

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