VASIL'YEV, P. D.

"Investigation of the strength of Tracks in a High-Speed Caterpillar Tractor." Thesis for degree of Cand. Technical Sci., Sub 28 Oct 49, Moscow Automotive Mechanics Inst.

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

VASIL'YEV, P.D., kandidat tekhnicheskikh nauk.

Studying the strength of track links in caterpillar machinery.
Nauch.trudy MAMI no.6:61-68 '56. (MLRA 10:2)
(Caterpillars (Vehicles))

VASIL'YEV, Pavel Grigor'yevich, dotsent, kand.ekonom.nauk; DROBOZINA, Lyudmila Aleksandrovna, kand.ekonom.nauk; PAVLOVA, Lidiya Petrovna, kand.ekonom.nauk; PADEYSKIY, Nikolay Aleksandrovich, dotsent, kand.ekonom.nauk; POPOV, Andrey Nikolayevich, kand. ekonom.nauk; SKACHKO, Aleksandr Borisovich, dotsent, kand.ekonom. nauk; MOSKVITINA, L.P., red.

[Finance of capitalistic states; textbook] Finansy kapitalisticheskikh gosudarstv; uchebnoe posobie. Moskva, M-vo vysshego i srednego spetsial'nogo obrazovaniia SSSR. Vses.zaochnyi finansovo-ekon.in-t, 1959. 434 p. (MIRA 13:7)
(Finance)

ROSSINSKIY, Z.A.; VASIL'YEV, P.G.

Modernization of papermaking machines. Bum.prom. 34 no.10: 16-19 O '59. (MIRA 13:2)

1. Solikamskiy tsellyulozno-bumazhnyy kombinat.
(Papermaking machinery)

VASIL'YEV, P. G.

3-6-26/29

AUTHOR: Vasil'yev, P. G., Dotsent, and Shirkevich, N. A., Senior Scientific Collaborator

TITLE: About a Manual on USSR Finances (Ob uchebnom posobii po finansam SSSR)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 6, pp 87-92 (USSR)

ABSTRACT: A review of a book written by Professor A. M. Aleksandrov - "The Finances of the USSR" - of which the second revised edition has now been published. The USSR Ministry of Higher Education has approved the use of the book as a manual for the higher financial-economic educational institutions and faculties. The author first deals in general terms with financial problems in a socialistic country. He then emphasizes the necessity of a textbook on these finances and their theoretic principles. Attempts to prepare such a textbook have been repeatedly made by M. I. Bogolepov, V. P. D'yachenko, A. K. Suchkov and others, but of all the literature published during the last ten years on USSR finances, A. M. Aleksandrov's book is best suited. In the author's opinion it would have been expedient to start the study with

an analysis of the historical development of finances. This could have helped to formulate the basic features of the present USSR finances.

Professor Aleksandrov has begun by defining finances, their substance, functions and role. The author objects that the book, when determining the conception of finances, gives several varying definitions. The inaccuracy and sometimes the lack of definitions somewhat lower the scientific level of the manual. The author further opposes Aleksandrov's point of view that in a course on Soviet finances questions on prices should not be included. He also considers that the separation of the question of financial-credit system and the organization of its management into two parts is not justified. The financial credit system is dealt with in chapter II whilst the organization of its management is discussed in chapter XXV. These questions being mutually connected should be examined jointly at the end of the course. It is further considered that the theme on the functions of finances has not been worked out sufficiently. This also applies to the question of the controlling functions of Soviet finances (para. 4 chapter I). The

author, however, points out that the deficiencies mentioned are connected with the lack of a profound scientific elaboration of these questions in the Soviet economic- and financial literature. The author further deals with the duplication of some subjects in the teaching process of education institutions, and refers in this case to the question of the financing of capital investments which appears in three courses. The author states that practice has shown that questions connected with the study of the kolkhoz and cooperative finances require a very thorough study. In particular, the estimate of income and expenses and its connection with the kolkhoz production plan, the machine tractor stations and the plan of the financial organs require careful examination. The section dealing with the agricultural tax is too concise. The book does not contain a section treating international financial relations, and a general deficiency of the book is the lack of material, schemes, diagrams, graphs, etc., which could illustrate the theoretical principles. On pages 79 and 110 of the second edition a mistake was made by asserting that the socialist society is a non-class one.

In other parts of the book the formulations of this question are correct. There are 3 Russian references.

ASSOCIATION: All-Union Correspondence Course Financial Institute (Vsesoyuznyy zaochnyy finansovyy institut), Scientific Research Financial Institute (Nauchno-issledovatel'skiy finansovyy institut)

AVAILABLE: Library of Congress

Card 4/4

IKONNIKOV, V.V., prof.; VASIL'YEV, P.G., ,and, ekon.nauk; LAVROV, V.V., prof.; RYUMIN, S.M.; KOLYCHEV, L.I., kand. ekon. nauk; SAMOYLOV, V.K.; LYSKOVICH, A.A.; KOLOMIN, Ye.V., kand. ekon. nauk; MITEL'MAN, Ye.L., kand. ekon. nauk; BEL'KINA, R.K., kand. ekon. nauk; SHTEYNSHLEYGER, S.B., kand. ekon. nauk; ROTLEYDER, A.Ya., kand. ekon. nauk; POGODIN, Yu., red.; TELEGINA, T., tekhn. red.

[Finance and credit in the U.S.S.R.] Finansy i kredit SSSR. Moskva, Izd-vo "Finansy," 1964. 447 p. (MIRA 17:3)

VASIL'EV, F. G.

Labor problems and organization of capital in agricultural communes; experience of Siberian agricultural communes. Novosibirsk, Knigosoiuz, 1928. 66 p.

Cyr.4 HD389

VASIL'YEV, P.I., dots., kand. nauk.

Economic accountability on collective farms. Dokl. TSKhA no.27: 59-67 '57. (MIRA 11:4)
(Collective farms--Accounting)

VASIL'YEV, P.I., inzhener.

Relationship between stresses and deformations in concrete under compression allowing for the effect of time. Izv.VNIIG no.45:78-92 '51. (MLRA 10:3)

(Concrete--Testing)

VASIL'YEV, P.I.; KOVALENKO, I.N.

Remark on stationary strems of uniform events.
Ukr.mat.zhur. 16 no. 3:374-375 '64. (MIRA 17:7)

L 27307-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pab-10/Pt-10 IJP(c)
ACCESSION NR: AP5002140 S/0120/64/000/006/0028/0029

40
35
B

AUTHOR: Antonov, A. V.; Vasil'yev, P. I.; Venikov, N. I.; Kalinin, S. P.; Sokolov, N. I.; Khaldin, N. N.; Khoroshavin, B. I.; Chumakov, N. I.

19

TITLE: Changing the IAE cyclotron into a controllable-ion-energy mode of operation

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1964, 28-29

TOPIC TAGS: cyclotron, IAE cyclotron

ABSTRACT: The adoption of rapid energy control in the 1.5-meter IAE cyclotron, with preservation of a good (±0.3—0.4%) monoenergetic characteristic and short duration (2—4 nsec) of accelerated-ion clusters, was predicated upon the following changes introduced into the cyclotron: (1) Correction of magnetic field by the currents in additional windings within 5—14 koe; (2) Provision of a dee-type slit ion optical device suitable for the entire range of accelerated ions; (3) Replacing

Card 1/2

L 27307-65
ACCESSION NR: AP5002140

the VCh-200 h-f oscillator by a GU-300 which can be tuned without additional neutralization within 8—13 Mc; (4) Introduction of a remote control of dees position; (5) Correction of optical properties of the system guiding the output beam. As a result of the above measures, the type and energy of particles can be changed in less than an hour's time; particulars are tabulated. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Institut atomnoy energii (Institute of Atomic Energy)

SUBMITTED: 20Nov63 ENCL: 00 SUB CODE: NP

NO REF SOV: 005 OTHER: 000

Card 2/2

1. BELOV, A. V.; VASIL'YEV, P. I.

2. USSR (600)

4. Concrete - Testing

7. Practical method of determining temperature tension in a concrete slab during harmonic fluctuations of air temperature. Bidr. Stroi. 21 no. 9, 1952

9. Monthly List of Russian Accessions, Library of Congress, _____1953. Unclassified.

VASIL'YEV, P.I., kand.tekhn.nauk

Plastic deformations of concrete. Izv.VNIIG 49:83-113 '53. (MIRA 12:5)

(Concrete)

VASIL'YEV, P.I., dots., kand.tekhn.nauk

Considering plastic deformations in the design of reinforced concrete constructions in the first stage. Izv.VNIIG 51:54-63 '54. (MIRA 12:5)

(Reinforced concrete)

124-57-2-2231

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 110 (USSR)

AUTHOR: Vasil'yev, P. I.

TITLE: On the Utilization of the "Heredity Theories" to Describe the Laws Governing the Deformation of Concrete (Ob ispol'zovanii nasledstvennykh teoriy dlya opisaniya zakonov deformirovaniya betona)

PERIODICAL: Izv. Vses. n.-i. in-ta gidrotekhn., 1955, Vol 53, pp 292-295

ABSTRACT: The author shows that the nonlinear theory of creep of Yu. N. Rabotnov (Vestn. Mosk. un-ta, 1948, Nr 10), proposed for metals, does not correlate well with experimental data when applied to concrete. He therefore proposes that, in applications relating to concrete, it is advisable to apply the "heredity theory" proposed by N. Kh. Arutyunyan for the aging of concrete [Nekotoryye voprosy teorii polzuchesti (Some Aspects of the Theory of Creep). Gostekhizdat, 1952]. The author shows further that Arutyunyan's formula, for the case of a variable modulus of instant deformation

Card 1/2 (formula on Card 2)

124-57-2-2231

On the Utilization of the "Heredity Theories" (cont.)

$$\varepsilon(t) = \frac{\sigma(t)}{E(t)} - \int_0^t \sigma(\tau) \frac{\partial}{\partial \tau} \left[\frac{1}{E(\tau)} \right] d\tau - \int_0^t f[\sigma(\tau)] \frac{\partial C(t,\tau)}{\partial \tau} d\tau$$

must be refined in the sense that in place of $f[\sigma(t)]$ a term $f[\sigma(t)/R(t)]$ be employed, where $R(t)$ is the temporary reaction.

M. M. Manukyan

1. Concrete--Deformation 2. Mathematics

Card 2/2

VASIL'YEV, P.I., dotsent, kandidat tekhnicheskikh nauk; ZUBRITSKAYA, M.A., inzhener.

Thermal stress from exothermic processes in the cement of slab-type blocks. Izv. VNIIG 56;60-70 '56. (MLRA 10:8)
(Concrete blocks)

VASIL'YEV, P.I.

BASHVICH, Akim Zakharovich; VASIL'YEV, P.I., kand. tekhn. nauk, nauchnyy red.; KAPLAN, M.Ya., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[Massive hydraulic structures with artificially induced contraction of concrete] Massivnye gidrotekhnicheskie sooruzheniia s iskusstvennym obzhatiem betona. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhit., 1957. 198 p. (MIRA 11:7)
(Hydraulic engineering) (Concrete)

15(0) SOV/112-58-3-3798

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 41 (USSR)

AUTHOR: Vasil'yev, P. I.

TITLE: Influence of Concrete Aging Upon the Creep-Curve Shape (Vliyaniye stareniya betona na vid krivykh polzuchesti)

PERIODICAL: Izv. Vses. n.-i. in-ta gidrotekhn., 1957, Vol 57, pp 129-134

ABSTRACT: The author suggests characterizing the aging of concrete by the ratio of its creeps determined at different concrete ages, under equal stress-duration conditions. The creep of a specimen stressed at some definite age can be taken as a unit creep. The author suggests that the creep-age relation found experimentally be introduced into the creep-deformation equations. Such equations are derived for the cases of linear and nonlinear dependence of the deformation rate on the stress. The first of these equations has been used to plot a creep curve of a concrete specimen loaded after two days; the curve agrees fairly well with an experimental curve obtained at VNIIG. However,

Card 1/2

15(0)

Influence of Concrete Aging Upon the Creep-Curve Shape

the relationships found need a more precise experimental verification, and the analytical method for solution creeping problems suggested above is mathematically complicated. For these reasons, it is expedient to use Arutyunyan's method for solving practical problems. Bibliography: 4 items.

M.G.S.

BOROVOY, A.A., red.; VASIL'YEV, P.I., red.; GIRSHKAN, I.A., red.; IORISH, Ye.L., red.; KRUKOVSKIY, M.Ya., red.; SAMOSTRELOV, P.V., red.; ZABRODINA, A.A., tekhn. red.

[Designing and building large dams; from papers of the Fifth International Congress on Large Dams] Proektirovanie i stroitel'stvo bol'shikh plotin; po materialam V Mezhdunarodnogo kongressa po bol'shim plotinam. Moskva, Gos. energ. izd-vo, 1958. 414 p. (MIRA 11:10)

(Dams)

14(6) SOV/112-59-5-8756

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 48 (USSR)

AUTHOR: Vasil'yev, P. I.

TITLE: Temperature Stresses in Concrete Gravity Dams and the Problem of Structural Joints

PERIODICAL: Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1958, Nr 1-2, pp 35-44

ABSTRACT: For the lower blocks of high dams built on a rock foundation, thermal stresses consist of the following components: concrete exothermics, the difference between the concrete cooling temperature and the ambient temperature, the difference between the concrete-mix temperature and the ambient. The following data is presented in the article: general formulae for designing crackproof concrete dams, measures necessary to observe in placing concrete mix, recommendations on the block size depending on the local climatic conditions, considerations of stress distribution in the blocks remote

Card 1/2

Temperature Stresses in Concrete Gravity Dams and the Problem of . . . .

from the foundation. The principal measure for severe climates is to cut the structure by temporary joints.

M.K.B.

VASIL'YEV, P.I., dots., kand.tekhn.nauk

Effect of the distance between heat cracks on the intensity of temperature stresses in massive concrete dams. Nauch.dokl.vys. shkoly; stroi. no.2:275-279 '58. (MIRA 12:1)
(Dams)

VASIL'YEV, P.I.; KUSKOVA, N.K.; PAKHOMOVA, K.S.

[Methods for the chemical analysis of minerals] Metody khimicheskogo analiza mineral'nogo syr'ia. Moskva, Nedra, No.9. 1965. 66 p. (MIRA 18:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

ANTONOV, A.V.; VASIL'YEV, P.I.; VENIKOV, M.I.; KALININ, S.I.; SOKOLOV, L.I.; KHALDIN, N.N.; KHOROSHAVIN, B.I.; CHUMAKOV, N.I.

Adapting an IAE cyclotron to operation involving regulated ion energy. Prib. i tekh. eksp. 9 no.6:28-29 N-D '64. (MIRA 18:3)

1. Institut atomnoy energii AN SSSR.

CHIRKOV, Yakov Nikitich; VASIL'YEV, P.I., red.

[Ribbed reinforced-concrete floors and roofs] Zhelezobetonnoe rebristoe perekrytie; uchebnoe posobie po kursovomu proektirovaniiu. Leningrad, Leningr. politekhn.in-t, 1962. 167 p. (MIRA 16:11)
(Reinforced concrete construction)

VASIL'YEV, P.I.

Multiple riffle for ores and concentration products. Obog. rud 7 no.2: 42-43 '62. (MIRA 16:4)
(Ore dressing--Equipment and supplies)

FILIMONOV, N.A., prof.; VASIL'YEV, P.I., kand.tekhn.nauk; KONONOV, Yu.I., inzh.

Basic recommendations in the control of crack formation in large concrete structures. Gidr. stroi. 32 no.10:61-64 O '61. (MIRA 14:10)

(Concrete construction)

34725
S/137/62/000/002/[illegible]
A052/A101

21.4200

AUTHORS: Vasil'yev, P. I., Podval'naya, R. L., Lavrova, A. A

TITLE: On the problem of determination of beryllium in phosphate form in the presence of titanium and other elements

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 8, abstract 2K39 (V sb. "Khim., fiz.-khim. i spektr. metody issled. rud redk. i rasseyan. elementov". Moscow, Gosgeoltekhizdat, 1961, 19-24)

TEXT: The separation of 30.7 mg BeO with an error of ~1% (relatively in the presence of (in mg) Al_2O_3 (?), Fe_2O_3 60, Cr_2O_3 10 is performed with ammonia, adding at the first precipitation 5 ml of 20% $(NH_4)_3PO_4$ solution and 10 ml of 15% solution of trilon B. The precipitate washed with 2% NH_4NO_3 solution is dissolved in HCl, and at the second precipitation 2 ml of phosphate solution and 5 ml of trilon B solution are added. At this stage Ti interferes with the determination of Be. To eliminate the effect of Ti, the solution, after a preliminary neutralization of the excessive acid, is cooled, 5 ml of 20% $(NH_4)_3PO_4$ solution, 15 ml of 15% trilon B solution and 1 ml of perhydrol are added and the whole is neutralized by methyl red. The separated amorphous

Card 1/2

S/137/62/000/002/[illegible]
A052/A101

On the problem of determination ...

residue of Ba phosphate is filtered off after 1 hour and, after dissolving, is precipitated again by heating, adding 2 ml of phosphate solution, 7 ml of [illegible] B solution and 0.5 ml of perhydrol. There are 5 references.

B. Melent'yev

[Abstracter's note: Complete translation]

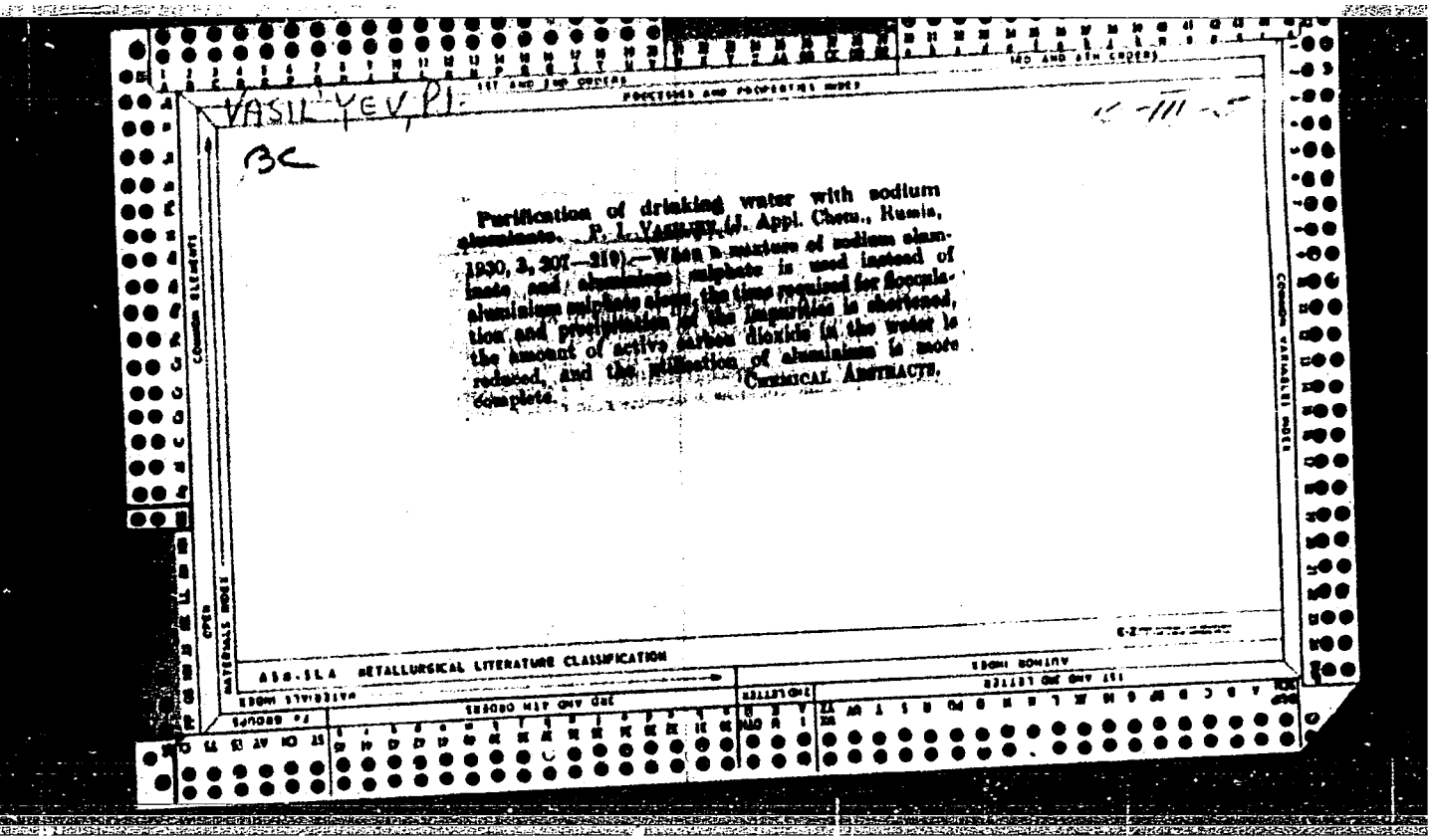
Card 2/2

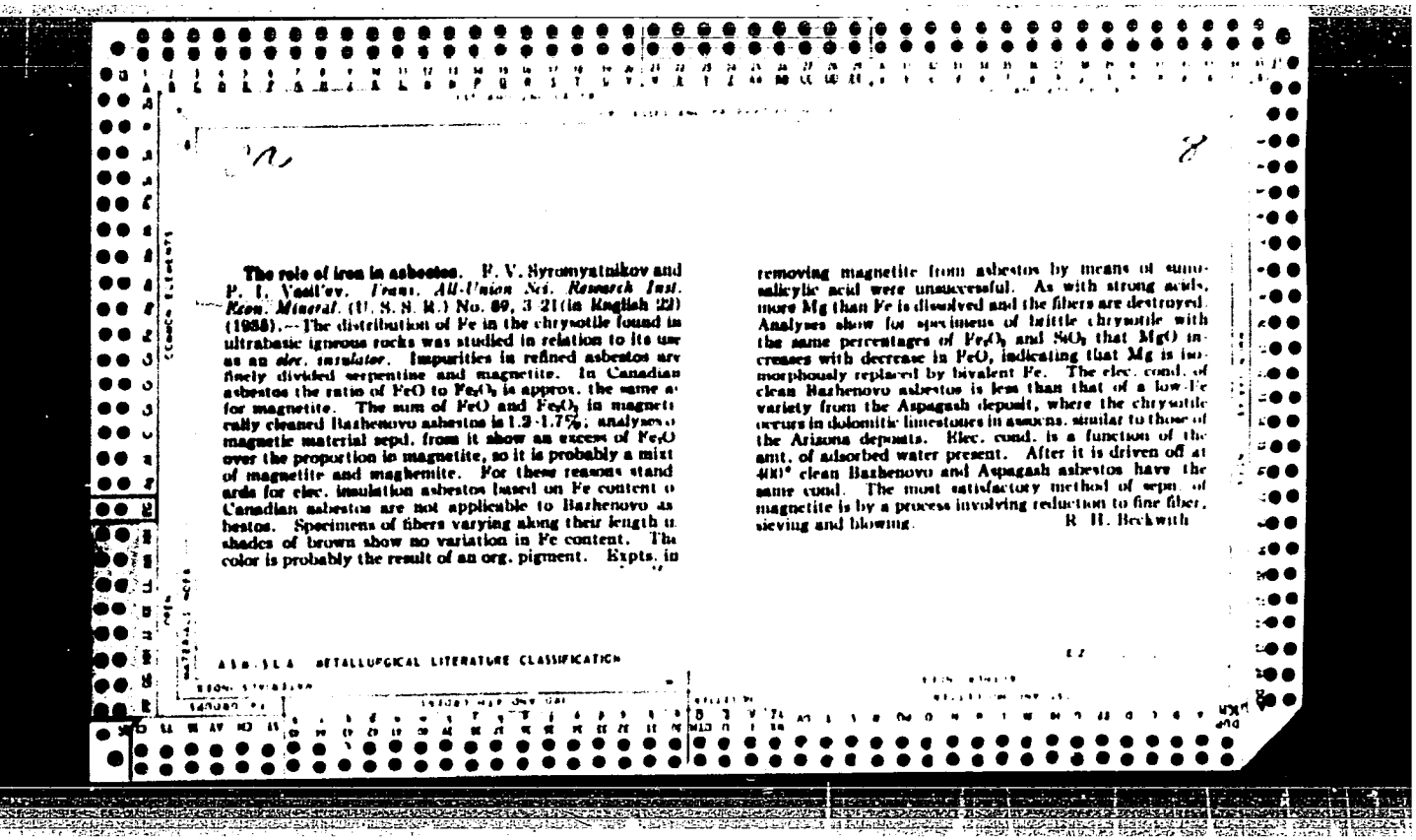
VASIL'YEV, P.I., dotsent, kand.tekh.nauk

Determination of intervals between expansion joints in concrete dams. (MIRA 14:5)
Izv.VNIIG 64:33-54 '60.
(Concrete construction) (Dams)

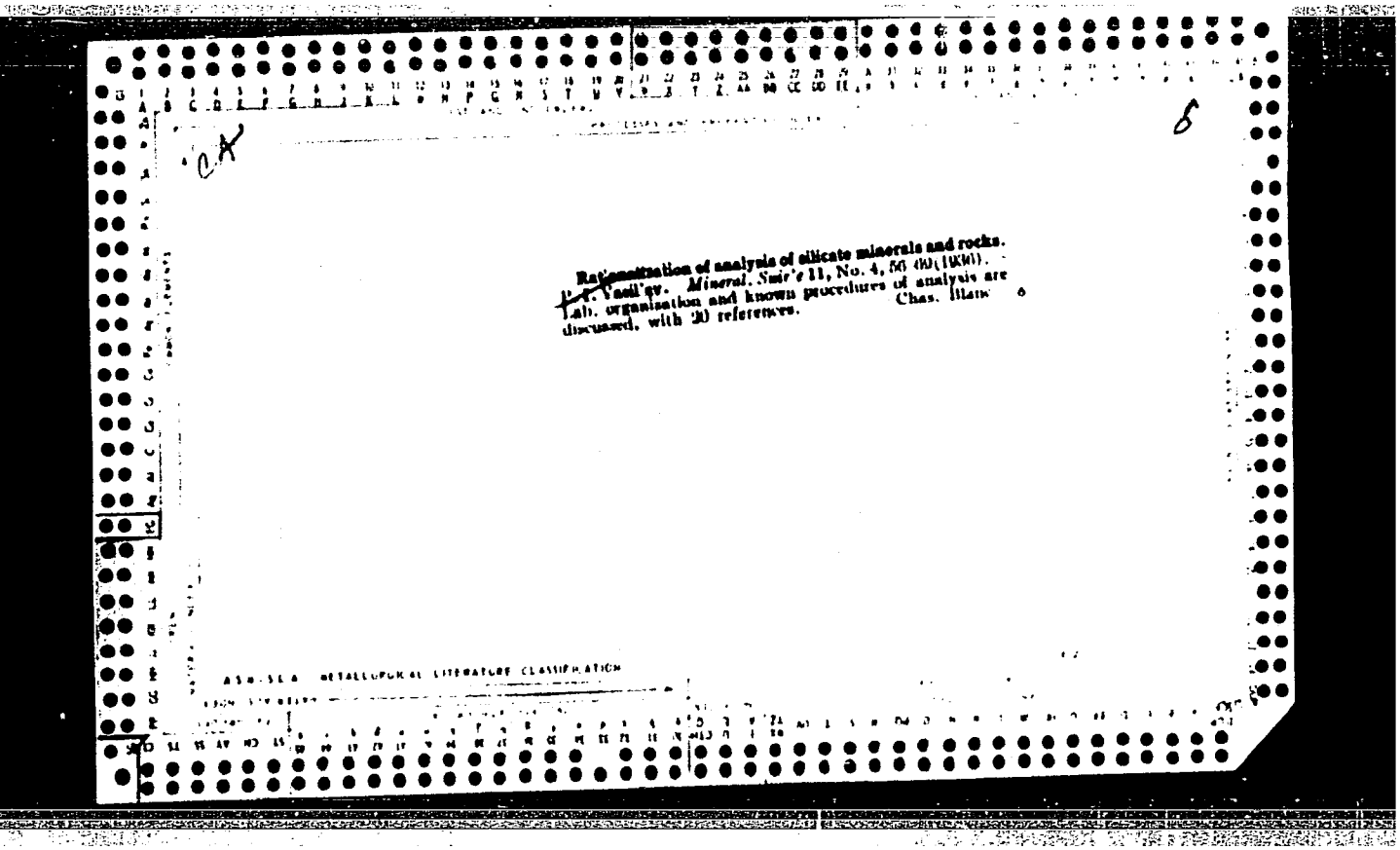
NEPOROZHNIY, P.S.; BELYAKOV, A.A.; VOZNESENSKIY, A.N.; GLEBOV, P.D.; KACHANOVSKIY, B.D.; BASEVICH, A.Z.; TARTAKOVSKIY, D.M.; VASIL'YEV, P.I.; ZARUBAYEV, N.V.; CHUGAYEV, R.R.; KOZHEVNIKOV, M.P.; KNOROZ, V.S.; IVANOV, P.L.; SHCHAVELEV, D.S.; OKORCKOV, S.D.; BELOV, A.V.; STAROSTIN, S.M.; YAGN, Yu.I.; IZBASH, S.V.

Ivan Ivanovich Levi; on his 60th birthday. Gidr. stroi. 30 no.9:61-62 S '60. (MIRA 13:9)
(Levi, Ivan Ivanovich, 1900-)





The role of iron in asbestos. P. V. Syromyatnikov and P. I. Vasil'ev. *Trans. All-Union Sci. Research Inst. Res. Mineral.* (U. S. S. R.) No. 89, 3-21 (in English 22) (1938).—The distribution of Fe in the chrysotile found in ultrabasic igneous rocks was studied in relation to its use as an *elec. insulator*. Impurities in refined asbestos are finely divided serpentine and magnetite. In Canadian asbestos the ratio of FeO to Fe_2O_3 is approx. the same as for magnetite. The sum of FeO and Fe_2O_3 in magnetically cleaned Bazhenovo asbestos is 1.2-1.7%; analyses of magnetic material sepd. from it show an excess of Fe_2O over the proportion in magnetite, so it is probably a mixt. of magnetite and maghemite. For these reasons standards for elec. insulation asbestos based on Fe content of Canadian asbestos are not applicable to Bazhenovo asbestos. Specimens of fibers varying along their length in shades of brown show no variation in Fe content. The color is probably the result of an org. pigment. Expts. in removing magnetite from asbestos by means of sulfosalicylic acid were unsuccessful. As with strong acids, more Mg than Fe is dissolved and the fibers are destroyed. Analyses show for specimens of brittle chrysotile with the same percentages of Fe_2O_3 and SiO_2 that MgO increases with decrease in FeO, indicating that Mg is isomorphously replaced by bivalent Fe. The elec. cond. of clean Bazhenovo asbestos is less than that of a low-Fe variety from the Aspagash deposit, where the chrysotile occurs in dolomitic limestones in associa. similar to those of the Arizona deposits. Elec. cond. is a function of the amt. of adsorbed water present. After it is driven off at 400° clean Bazhenovo and Aspagash asbestos have the same cond. The most satisfactory method of sepn. of magnetite is by a process involving reduction to fine fiber, sieving and blowing. R. H. Beckwith



Rationalization of analysis of silicate minerals and rocks.
V. V. Vasil'ev. *Mineral. Smir'e* 11, No. 4, 56 (1956).
Lab. organization and known procedures of analysis are discussed, with 30 references. Chas. Blair

VASIL'YEV, P.I.

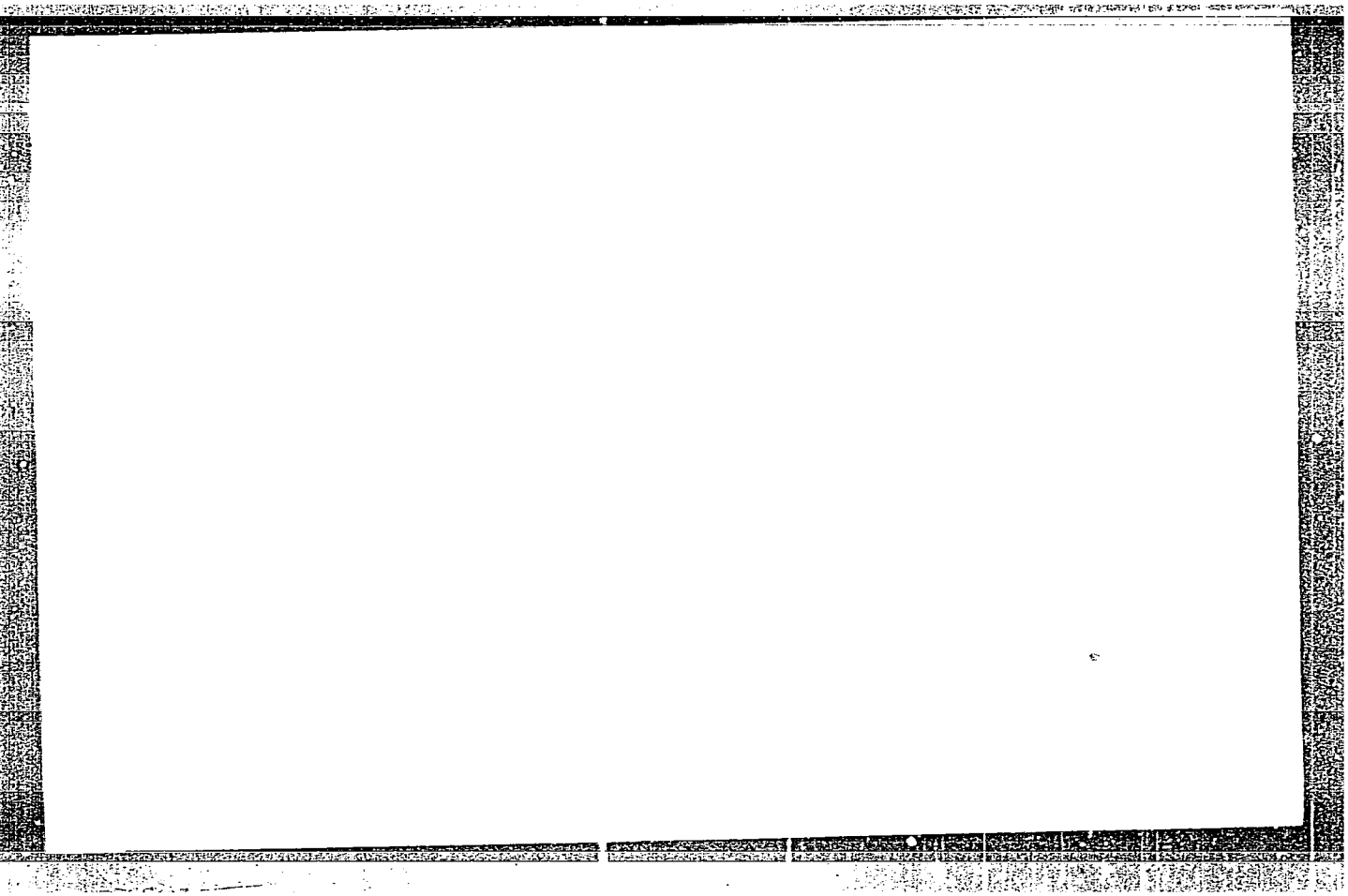
Metody uskorennogo analiza silikatov
(Methods of rapid analysis of silicates). Moskva,
Gos. izd. geolog. lit-ry, 1951. 52 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

VASIL'YEV, P.I.; LEBOVA, R.G.; PODVAL'NAYA, P.L.; ROZOVSKAYA, G.V.; RYANICHEVA, M.I.; SILINA, O.M.; TITOV, V.I.; TIKHONOVA, N.A. SERGEYEVA, N.A., redaktor izdatel'stva; GORDIYENKO, Ye.B., tekhnicheskiy redaktor

[Methods in chemical analysis of mineral ores] Metody khimicheskogo analiza mineral'nogo syr'ia. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr. No.1. 1955. 77 p. (MLRA 9:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy insitut mineral'nogo syr'ya.
(Ores--Analysis)



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858910014-4"

VASIL'YEV, P.I.

TITOV, V.I.; BOCHAROVA, A.P.; VASIL'YEV, P.I.; LEBOVA, P.G.; PODVAL'NAYA, R.L.; AVERKIYEVA, T.A., tekhnicheskiy redaktor

[Methods of chemical analysis of mineral ores] Metody khimicheskogo analiza mineral'nogo syr'ia. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.3. 1957. 90 p. (MLRA 10:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.
(Mineralogical chemistry)

VASIL'YEV, PAVEL IVANOVICH

PHASE I BOOK EXPLOITATION 406

Suvorovskaya, Natal'ya Aleksandrovna; Titov Veleriy Ivanovich; Brodskaya, Velentina Mikhaylovna; Vasil'yev, Pavel Ivanovich; Lipshits, Bella Moiseyevna; and Elentukh, Mariya Pavlovna

Tekhnicheskiy analiz v tsvetnoy metallurgii (Technical Analysis in Nonferrous Metallurgy) Moscow, Metallurgizdat, 1957. 567 p. 6,000 copies printed.

Reviewers: Troitskaya, M.I., Pomerantsev, I.N., Kozhukova, M.A., Candidates of Technical Sciences; Ed.: Vagina, N.S.; Ed. of Publishing House: Kosolapova, E.F.; Tech Ed.: Vaynshteyn, Ye. B.

PURPOSE: This is a textbook for use in technicums giving courses in nonferrous metallurgy; it may also be used by those performing chemical analysis at plant laboratories.

COVERAGE: The book describes widely used chemical and physico-chemical methods of determining the constituents of nonferrous-metal ores, of processed-ore products, of alloys, etc.

Card 1/42

In addition, sections are included which are devoted to assaying, fuel analysis, water analysis, quality control in electrode production, and rational analysis. For authors of individual sections and chapters, see Table of Contents. There are 98 references, of which 85 are Soviet, 10 English, and 3 Czech.

TABLE OF CONTENTS:

5(2) PHASE I BOOK EXPLOITATION SOV/2532

Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya

Metody khimicheskogo analiza mineral'nogo syr'ya, vyp. 4 (Methods of Chemical Analysis of Mineral Raw Materials, Nr 4) Moscow, Gosgeoltekhizdat, 1958. 66 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Ministerstva geologii i okhrany nedr SSSR.

Compilers: V.I. Titov, (Chief Compiler), P.I. Vasil'yev, R. G. Lebova, and R.L. Podval'naya; Ed. of Publishing House: S.M. Vlasova; Tech. Ed.: S.A. Pen'kova.

PURPOSE: This book is intended for chemists and geologists interested in chemical analysis.

COVERAGE: The booklet describes methods for determination of rare and dispersed elements, namely: beryllium, gallium, hafnium, germanium, indium, lithium, rare earth elements, selenium, tellurium, and zirconium. The booklet is based on well-known methods

Card 1/4

of analysis and on modified and new methods developed by scientific research organizations and checked by a group of analysts under the supervision of R.G. Lebova, Chief Method Specialist. The method descriptions were tested by the methodological section of the Scientific Council of the Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (VIMS—All-Union Scientific research Institute for Mineral Raw Materials) consisting of I.V. Shmanenkov (Chairman), V.I. Titov (Vice-Chairman), Ye. I. Zheleznova (Vice-Chairman), V.M. Pensionerova (Secretary), and members P.I. Vasil'yev, L.I. Gerkhardt, F.V. Zaykovskiy, V.M. Zvenigorodskaya, A.K. Rusanov, I.V. Sorokin, V.G. Sochevanov, and B.I. Frid, and were approved for use in geological laboratories. P.I. Vasil'yev and R.L. Podval'naya drew up directions for the determination of beryllium, gallium, germanium, indium, and thallium; V.I. Titov for the determination of hafnium by optical spectral analysis; V.I. Titov, for rare earth elements; V.I. Titov and G.V. Rozovskaya, for selenium and tellurium, and A.V. Vinogradov for zirconium. There are 30 references; 23 Soviet, 3 German, 3 English, and 1 French.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

TM/ec
10-26-59

Card 4/4

VASIL'YEV P. I.

VASIL'YEV, P. I.

Vasil'yev, P. I., Podval'naya, R. I.

"Method of Luminescence for the Determination of Uranium with Preliminary Separation by Means of Titanium Phosphate" p. 27

in book Methods of Determining Radioactive Elements in Mineral Raw Materials, 1958, 68 pp.

3(5) SOV/7-59-6-10/17

AUTHORS: Tyutina, M. A., Aleskovskiy, V. B., Vasil'yev, P. I.

TITLE: Experiment in Biogeochemical Testing and Methods of Niobium Determination in Plants

PERIODICAL: Geokhimiya, 1959, Nr 6, pp 550 - 554 (USSR)

ABSTRACT: The region of the central Timan in the Komi ASSR was investigated. Niobium was spectrophotometrically determined according to the rhodanide method with a device of the SF-4 type (Refs 8, 9). It was precipitated from the solution with manganese oxyhydrate for the purpose of concentration. This precipitation is complete in the range of up to 50 µg Nb (Fig 1). Two methods were devised: analysis of the plant ash and analysis without previous ashing (oxalate extraction). Spectrum analyses were made with the device ISP-28. Tables 1 and 2 show the results by means of some control samples. Most of the plants were found to have a niobium portion of from o to 3 µg contained in 5 g dry leaves, partly, however, up to 50 - 70 µg. It is possible to draw diagrams with distinct maxima (Fig 2). The following plants concentrate niobium: Rubus arcticus L., Vaccinium myrtillus L., Chamaenerium angustifolium L., Betula pubescens Ehrh., and Betula verrucosa

Card 1/2

SOV/7-59-6-10/17

Experiment in Biogeochemical Testing and Methods of Niobium Determination in Plants

Ehrh. - A. Ya. Fedotova, Zap. geofizicheskiy trest (Zap. Geophysical Trust) assisted in the experimental work. Papers of A. P. Vinogradov, D. P. Malyuga, and S. M. Tkalich are mentioned. There are 2 figures, 3 tables, and 10 references, 8 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Institute of Technology imeni Lensovet)

SUBMITTED: March 16, 1959

Card 2/2

VASIL'YEV, P.I.

Palm-Khinchin limiting functions. Uch. zap. Kish. un. 70:
52-61 '64 (MIRA 18:2)

VASIL'YEV, P.I.; MOLOTKOVA, M.N.

Disturbances caused by the shifting of the gondola in airborne electromagnetic prospecting by the induction method. Uch. zap. LGU no.324:65-69 '64. (MIRA 18:4)

VASIL'YEV, P.I.

Airborne electromagnetic prospecting carried out by the induction method from the AERI-2 station. Uch. zap. LGU no.324:79-88 '64. (MIRA 18:4)

FILIMONOV, N.A., prof.; VASIL'YEV, P.I., kand.tekhn.nauk; KONONOV, Yu.I., inzh.

Technological conference on the problem of overcoming crack formation in solid concrete structures. Gidr. stroi. 31 no.9: 58-61 S '61. (MIRA 14:12)

(Concrete construction--Congresses)

KOLESOV, Yu.B.; VASIL'YEV, P.K.; GAL'PERIN, L.N.

Automatic calorimeter for liquids. Zhur. fiz. khim. 39 no.5: 1266-1270 My '65. (MIRA 18:8)

1. Institut khimicheskoy fiziki AN SSSR.

BENDERSKIY, S.N., kand.tekhn. nauk; BURSIAN, V.R., prof., kand. tekhn. nauk; VASIL'YEV, P.N., inzh.; DORFMAN, E.Ye., inzh.; ZHURAVLEV, V.F., kand. tekhn. nauk; KESTEL'MAN, V.N., inzh.; KRUGLOV, A.N., dots., kand. tekhn. nauk; KUKIBNYY, A.A., dots., kand.tekhn. nauk; LEVACHEV, N.A., dots., kand. tekhn. nauk; LEYKIN, A.Ya., inzh.; NAREMSKIY, N.K., dots., kand. tekhn. nauk; PLATONOV, P.N., prof., doktor tekhn. nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk; KUTSENKO, K.I., kand. tekhn. nauk, dots., retsenzent; VEREMEYENKO, Ye.I., inzh., retsenzent; KOVTUN, A.P., inzh., retsenzent; SEMENYUK, A.I., retsenzent; KASHCHEYEV, I.P., inzh., retsenzent; PAL'TSEV, V.S., kand. tekhn. nauk, retsenzent; KHMEL'NITSKAYA, A.Z., red.

[Conveying and reloading machinery for the overall mechanization of the food industries] Transportiruiushchie i peregruzochnye mashiny dlia kompleksnoi mekhanizatsii pishchevykh proizvodstv. Moskva, Pishchevaia promyshlennost', 1964. 759 p. (MIRA 18:3)

(Continued on next card)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858910014-4"

BENDERSKIY, S.N.---- (continued). Card 2.

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova (for Kutsenko, Naremskiy, Veremeyenko, Kovtun). 2. Starshiy ekspert Upravleniya po avtomatizatsii i oborudovaniyu dlya pishchevoy promyshlennosti Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR (for Semenyuk). 3. Glavnyy mekhanik Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy mukomol'nokrupyanoy i kombikormovoy promyshlennosti i elevatorno-skladskogo khozyaystva (for Kashcheyev). 4. Zaveduyushchiy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov ego pererabotki (for Pal'tsev).

VASIL'YEV, P.N.; ROVINSKIY, V.I. (Moskva)

Disease of the heart in bronchial asthma. Arkh.pat. no.1:47-54 '62. (MIRA 15:1)

1. Iz propedevticheskoy terapevticheskoy kliniki (dir. - zasluzhennyy deyatel' nauki prof. A.A. Shelagurov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova i patologoanatomicheskogo otdeleniya 1-y Gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR L. D. Chernyshov).
(ASTHMA) (HEART--DISEASES)

VASIL'YEV, P. N. and MAL'TSEV, T. P.

"The Importance of Medical Determination of Fitness for Military Duty as a Part of the Armed Forces Medical Service" Voyenno-medits. zhur., No.12, pp. 3-6, 1955

Translation 1083494

VASIL'YEV, P.N.

1229. PARALYSIS AFTER ANTI-RABIES VACCINATION (Russian text) - Vassiliev P. N. Moscow - ARKH. PATOL. 1956, 18/7 (109-116) Illus. 4

Report of 2 cases observed in 1955. Case 1. A woman aged 31 was bitten in the left calf by a small pet dog, which later was found to be healthy. On the same day, anti-rabies inoculations were given (Fermi's method). After the 9th injection, numbness and weakness, initially in the legs, then in the arms, developed. The patient died 4 days afterwards, with paralysis of swallowing and respiration. Autopsy revealed ascending Landry's paralysis. Case II. A woman aged 41, who had been scratched by a healthy cat, tolerated the anti-rabies vaccinations badly: after the 5th injection, she developed a red, markedly itching, exanthema of the abdomen. She received 3 more injections, after which ascending Landry's paralysis developed, as in the first case and confirmed at autopsy. The aetiological significance of the fixed virus is not disputable in either case. However, the physical condition should also be considered (case II had just before sustained a streptococcal infection), so that an allergic process is not entirely excluded.

Brandt - Berlin (L, 8, 17)

DOBROVOL'SKAYA, T.I.; VASIL'YEV, P.N.

Two cases of primary atypical amyloidosis. Terap. arkh. 28 no.7: 75-79 '56. (MLRA 10:1)

1. Iz propedevticheskoy terapevticheskoy kliniki (zav. - prof. A.A. Shelagurov) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina i prozektury (zav. - P. N. Vasil'yev) 2-y gorodskoy bol'nitsy g. Moskvay (glavnyy vrach A. I. Khromova).

(AMYLOIDOSIS, case reports
primary atypical)

VASIL'YEV, P.N. (Moskva)

On the problem of Recklinghausen's disease (parathyroid osteitis) [with summary in English]. Arkh.pat.19 no.7:61-66 '57. (MLRA 10:9)

1. Iz patologoanatomicheskogo otdeleniya (zav. P.N.Vasil'yev) Moskovskoy gorodskoy klinicheskoy bol'nitsy No.2 (glavnyy vrach A.I.Khromova)

(OSTEITIS FIBROSA, pathology, autopsy (Rus))

VASIL'YEV, P.N.; ROVINSKIY, V.I.

Pathogenesis of stenocardial pain in seizures of bronchial asthma. Sov. med. 28 no.1:123-124 Ja '65. (MIRA 18:5)

1. Propedevticheskaya terapevticheskaya klinika (zav. - zasluzhennyy deyatel' nauki prof. A.A.Shelagurov) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni Pirogova i 1-ya Moskovskaya gorodskaya klinicheskaya bol'nitsa (glavnyy vrach - zasluzhennyy vrach RSFSR L.D.Chernyshev).

ROVINSKIY, V.I.; VASIL'YEV, P.N. (Moskva)

Pathomorphology of myocardial lesions in bronchial asthma. Klin. med. 39 no.5:86-87 My '61. (MIRA 14:5)

1. Iz propedevticheskoy terapevticheskoy kliniki (zav. - prof. A.A. Shelagurov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova i patologoanatomicheskogo otdeleniya 2-go sektora 1-y Gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR L.D. Chernyshev).
(ASTHMA) (HEART—MUSCLE)

LOBANOVA, A.N.; VASIL'YEV, P.N.

Report on conferences on clinical anatomy held at Moscow City Clinical Hospital No. 2. Arkh. pat. 22 no. 10:90-94 '60. (MIRA 13:12)

1. Glavnyy vrach Moskovskoy gorodskoy klinicheskoy bol'nitsy No. 2 (for Lobanova). 2. Zaveduyshchiy patologoanatomicheskim otdeleniyem Moskovskog gorodskoy klinicheskoy bol'nitsy No. 2 (for Vasil'yev).

(ANATOMY, PATHOLOGICAL—CONGRESSES)

VASIL'YEV, P.N., starshiy elektromekhanik

Restoring the action of lightrelays after switching-over of power. Avtom. telem. i sviaz' 4 no.9:42 S '60. (MIRA 13: 9)

1. Leningrad-Sortirovochnaya Moskovskaya distantsiya signalizatsii i svyazi Oktyabr'skoy dorogi.
(Railroads--Signaling) (Electric relays)

VASIL'YEV, P.N.

Reports on conferences on clinical anatomy held at Moscow City Clinical Hospital No.2. Arkh.pat. 21 no.1:84-94 '59. (MIRA 12:1)

(ANATOMY, PATHOLOGICAL)

MAL'TSEV, T.P., polkovnik med.sluzhby, VASIL'YEV, P.N., polkovnik med. sluzhby.

Role of physical examinations in miliatary medicine. Voen.-med.zhur. no.12: 3-6 D '55 (MIRA 12:1)
(RUSSIA--ARMED FORCES--MEDICAL EXAMINATIONS)

[illegible], P.I.; [illegible], V.L.; [illegible], V.A.

Investigating changes in the density of [illegible] during the decomposition of a copper-base [illegible] solution. Izv. vys. ucheb. zav.; tsvet. met. 7 no.6:90-93 '64.

(MIRA 18:3)

1. Petrozavodskiy gosudarstvennyy universitet, kafedra eksperimental'noy fiziki.

ZHURZH, I.I.; VASIL'YEV, P.P.

Making and erecting spatial blocks. Suggested by I.I.Zhurzh, P.P.Vasil'ev. Rats.i izobr.v stroi. no.9:5-8 '59. (MIRA 13:1)

1. Brigadir kompleksnoy brigady stroitel'nogo tresta No.87 Glavleningradstroya (for Zhurzh). 2. Nachal'nik uchastka UNR-13 tresta No.87 Glavleningradstroya (for Vasil'yev).
(Precast concrete construction)

VASIL'YEV, P.P.

Legal aid for neurotic and insane patients in psychoneurological institutions. Vop. psikh. i nevr. no.5:258-260 '59.
(MIRA 14:5)

1. Iz orgmetodotdela (zav. - doktor med.nauk G.V.Zenevich) Psikhonevrologicheskogo instituta imeni V.M.Bekhtereva (direktor - chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR prof. V.N.Myasishchev).

(INSANE--LAWS AND LEGISLATION)

VASIL'YEV, P.P.

[Guardianship over the mentally ill; a practical pamphlet] Voprosy opeki nad psikhicheski bol'nymi; metodicheskoe pis'mo. Leningrad, 1957. 38 p. (MIRA 11:4)
(PSYCHIATRIC HOSPITALS)

VASIL'YEV, P. P.

Steam Boilers

Controlling the condition of heat pipes in steam boilers, Rech. Transp., 12, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

VASIL'YEV, P. P.

Ch, Penzenskaya Obl Admin of Agr and Agr Procurement, Min of Agr and Agr Procurement RSFSR (Sel'skoye Khozyaystvo, 18 Sep 53)

SO: Summary #665, 31 Oct 55

VASILYEV, [illegible]

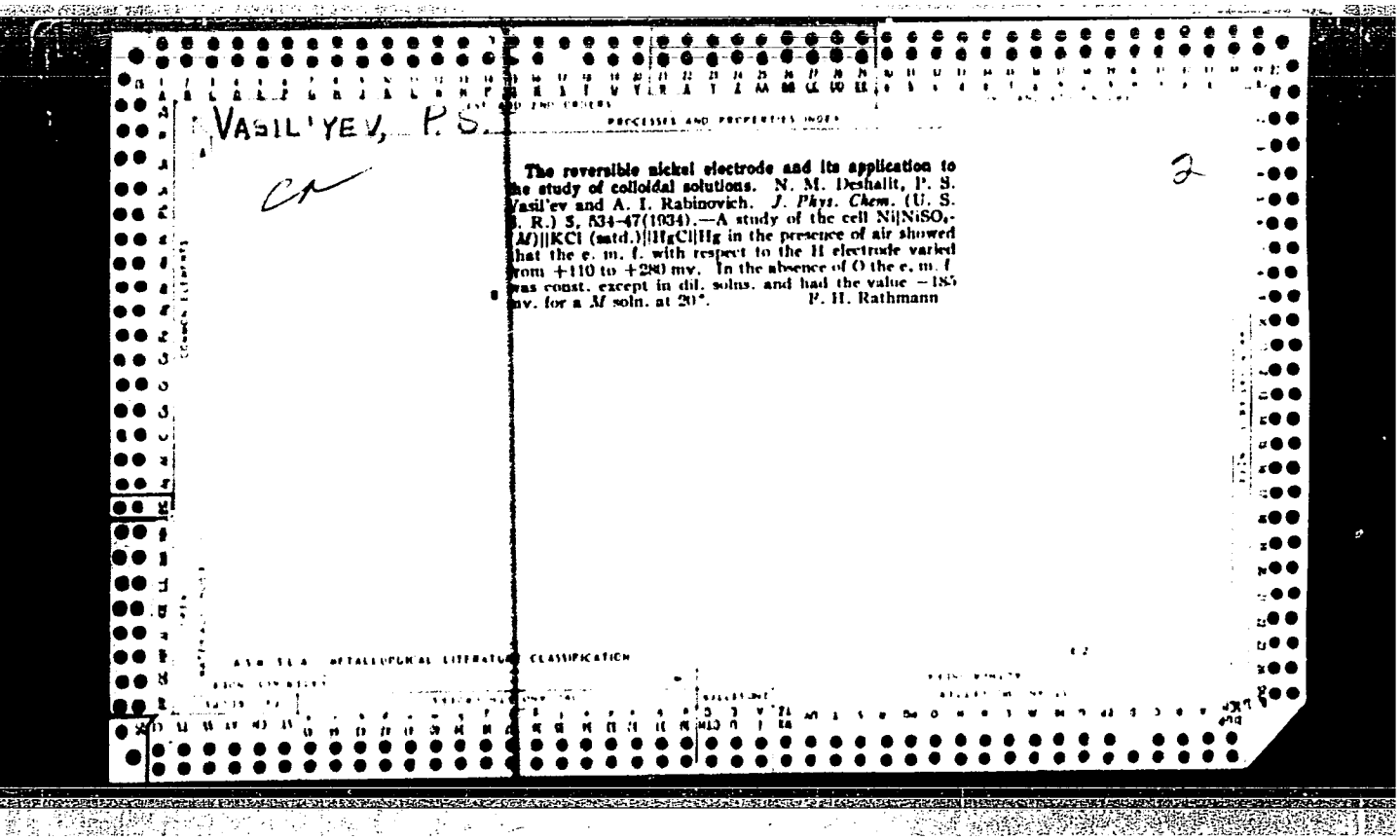
1. VASIL'YEV, [illegible]

2. USSR (600)

4. Cupola Furnaces

7. Use of inflammable slates in the cupola furnaces, Lit. proiav. No. [illegible], 1952.

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

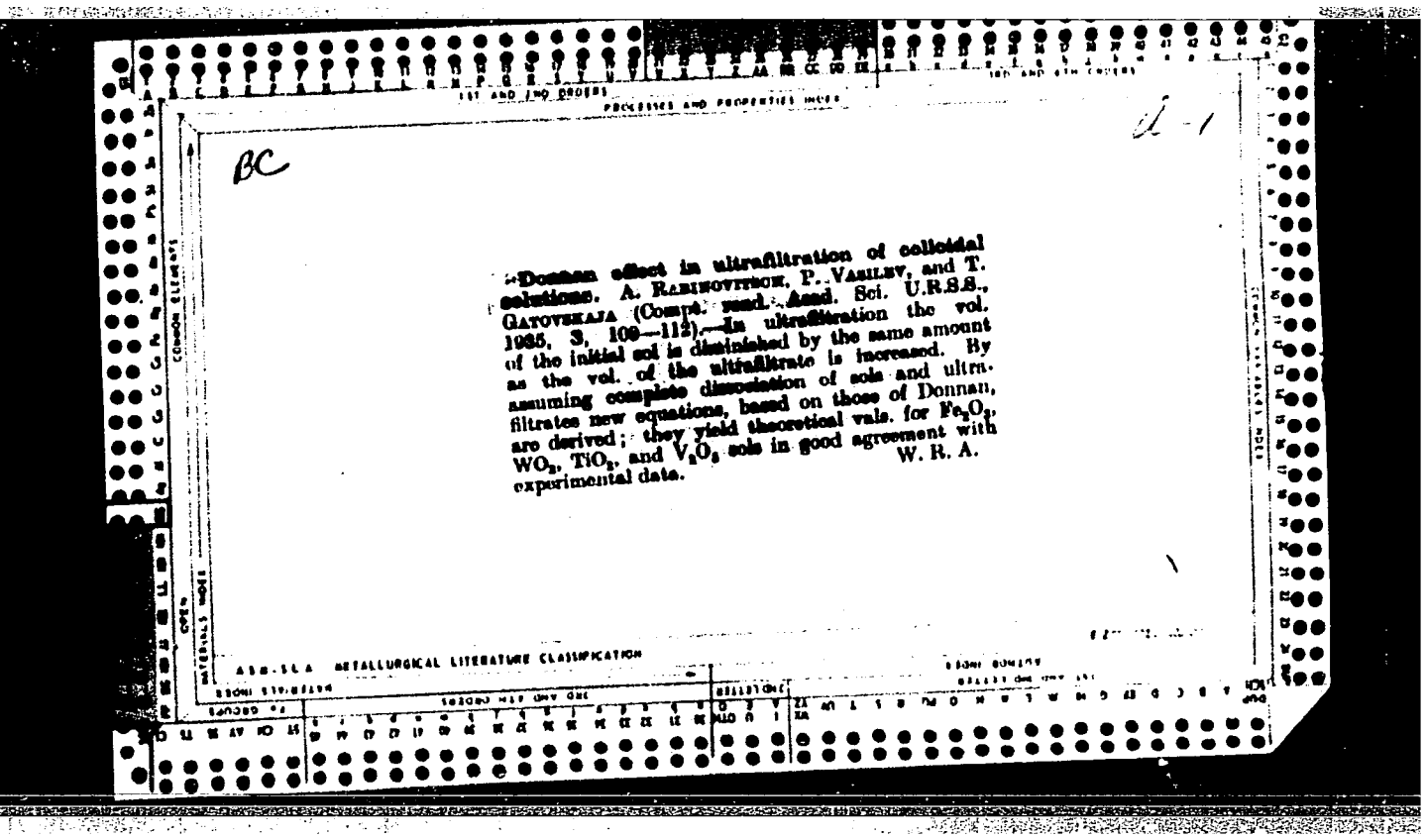


VASIL'YEV, P. S.

CA

2

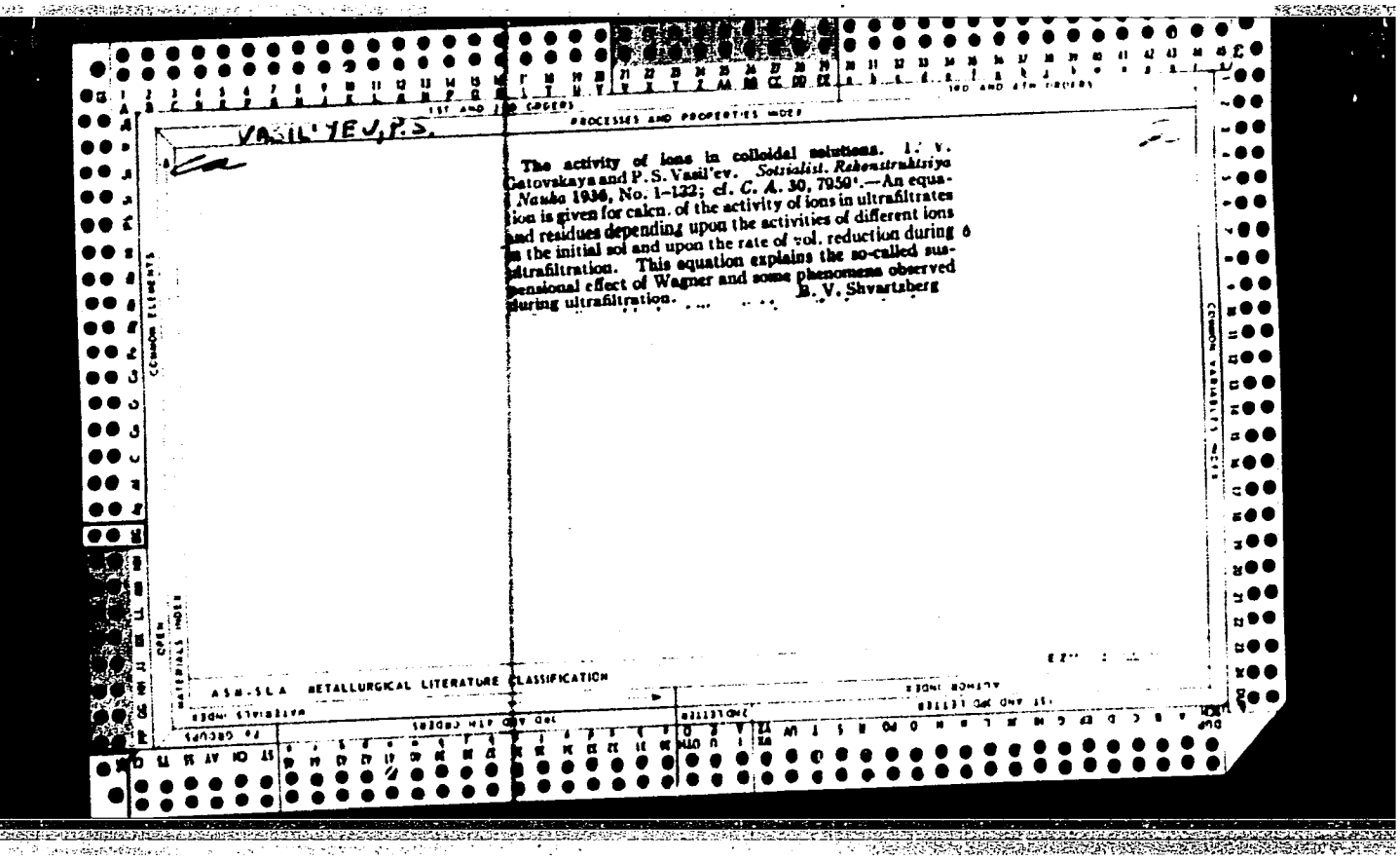
The reversible nickel electrode and its application to the study of colloidal solutions. N. M. Deshalit, P. S. Vasil'ev and A. I. Rabinovich. *J. Phys. Chem.* (U. S. S. R.) 5, 534–47(1934).—A study of the cell Ni|$NiSO_4$-*M*)||KCl (satd.)|HgCl|Hg in the presence of air showed that the e. m. f. with respect to the H electrode varied from +110 to +280 mv. In the absence of O the e. m. f. was const. except in dil. solns. and had the value −185 mv. for a *M* soln. at 20°. P. H. Rathmann



BC

A-1

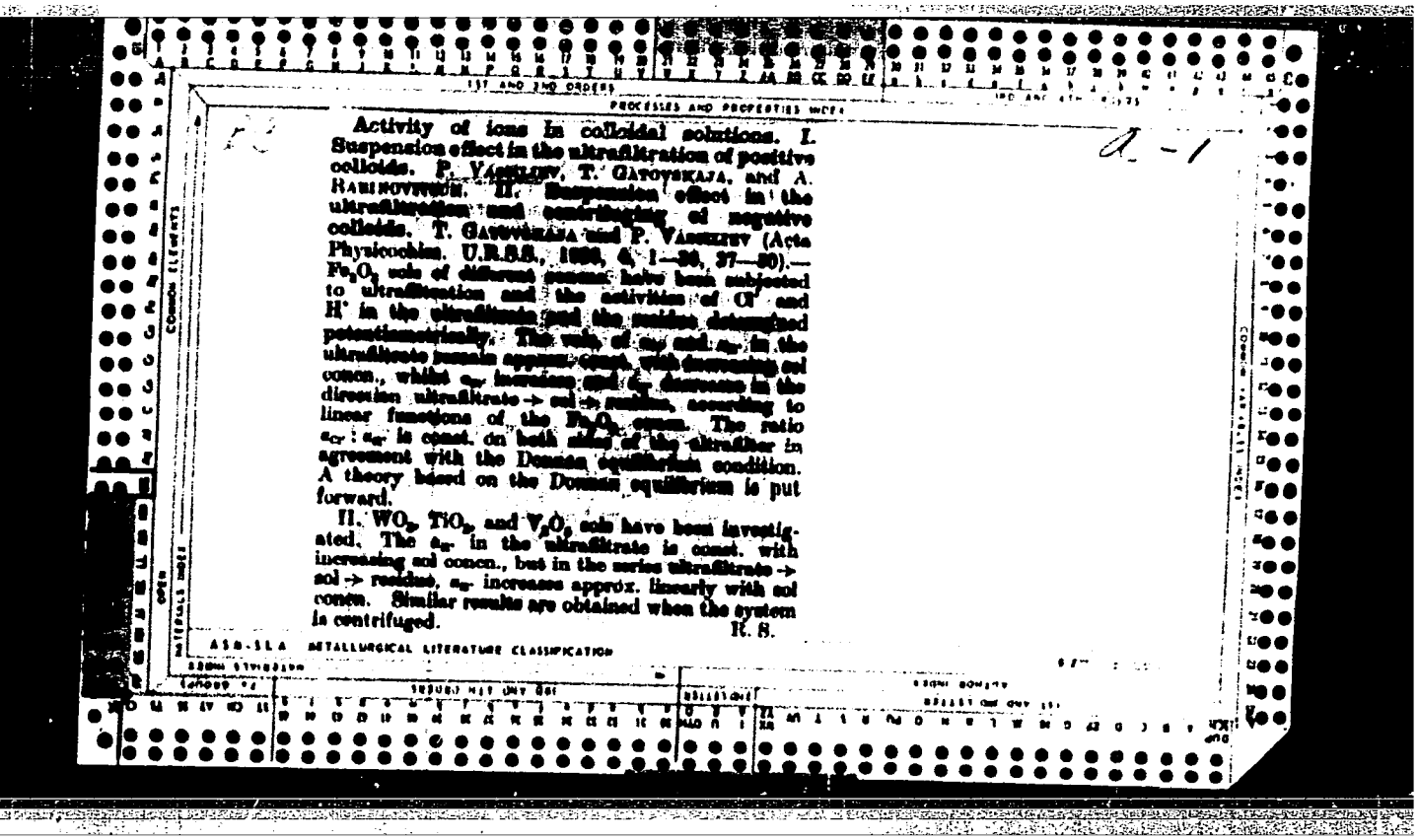
"Donnan effect in ultrafiltration of colloidal solutions. A. RABINOVITSCH, P. VASILEV, and T. GATOVSKAJA (Compt. rend. Acad. Sci. U.R.S.S., 1935, 3, 109—112).—In ultrafiltration the vol. of the initial sol is diminished by the same amount as the vol. of the ultrafiltrate is increased. By assuming complete dissociation of sols and ultrafiltrates new equations, based on those of Donnan, are derived; they yield theoretical vals. for Fe_2O_3, WO_3, TiO_2, and V_2O_5 sols in good agreement with experimental data. W. R. A.



VASIL'YEV, P.S.

The activity of ions in colloidal solutions. I. V. Gatovskaya and P. S. Vasil'ev. *Sotsialist. Rekonstruktsiya i Nauka* 1936, No. 1-122; cf. *C. A.* 30, 7959⁹.—An equation is given for calcn. of the activity of ions in ultrafiltrates and residues depending upon the activities of different ions in the initial sol and upon the rate of vol. reduction during ultrafiltration. This equation explains the so-called suspensional effect of Wagner and some phenomena observed during ultrafiltration. B. V. Shvartsberg

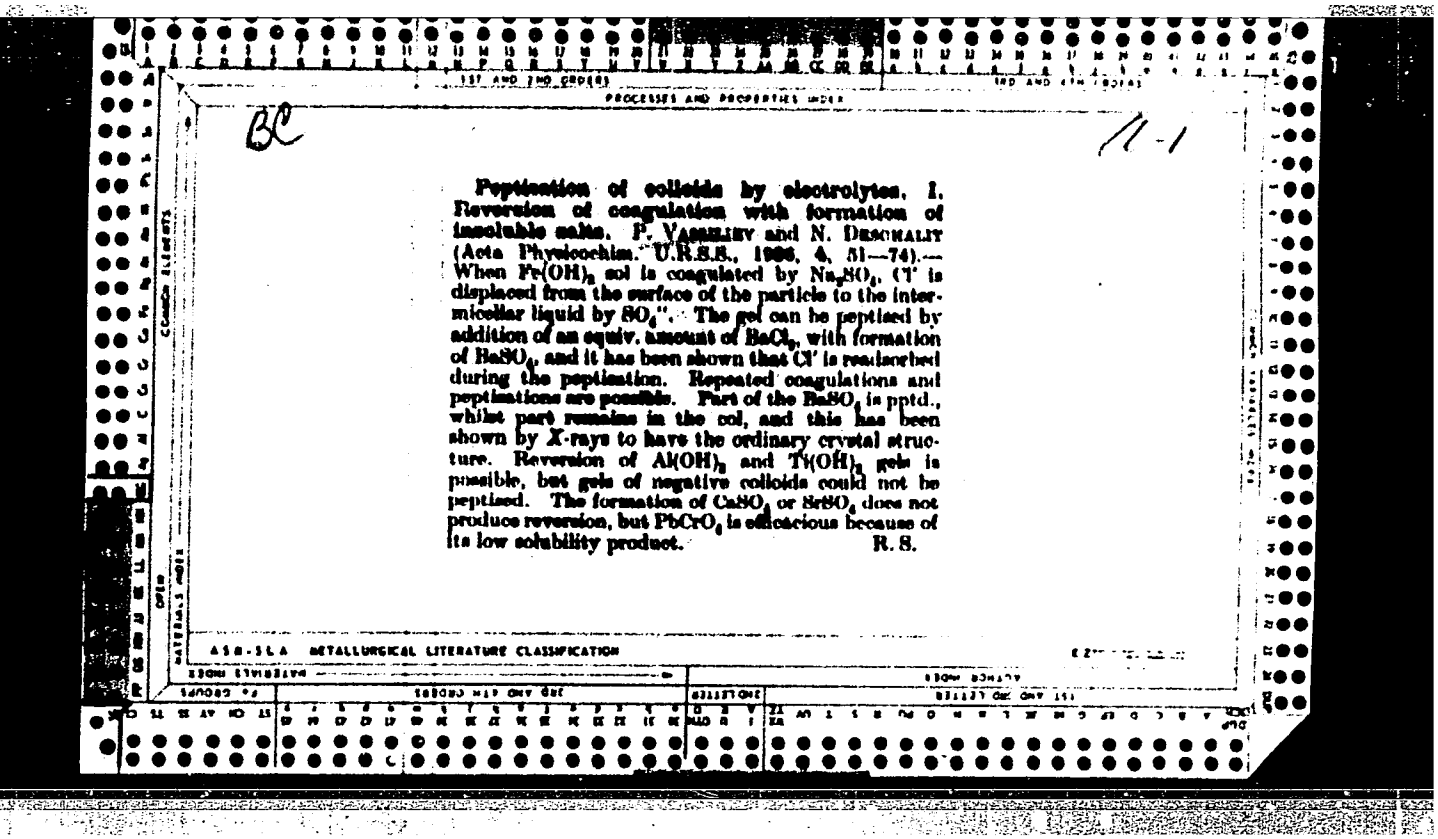
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Activity of ions in colloidal solutions. I. Suspension effect in the ultrafiltration of positive colloids. P. VASILIEV, T. GATOVSKAJA, and A. RAKHOVSKII. II. Suspension effect in the ultrafiltration and coagulation of negative colloids. T. GATOVSKAJA and P. VASILIEV (Acta Physicochim. U.R.S.S., 1938, 8, 1—30, 37—60).— Fe_2O_3 sols of different grades have been subjected to ultrafiltration and the activities of Cl' and H' in the ultrafiltrate and the residue determined potentiometrically. The vals. of $a_{Cl'}$ and $a_{H'}$ in the ultrafiltrate remain approx. const. with increasing sol concn., whilst $a_{Cl'}$ increases and $a_{H'}$ decreases in the direction ultrafiltrate → sol → residue, according to linear functions of the Fe_2O_3 concn. The ratio $a_{Cl'} : a_{H'}$ is const. on both sides of the ultrafilter in agreement with the Donnan equilibrium condition. A theory based on the Donnan equilibrium is put forward.

II. WO_3, TiO_2, and V_2O_5 sols have been investigated. The $a_{H'}$ in the ultrafiltrate is const. with increasing sol concn., but in the series ultrafiltrate → sol → residue, $a_{H'}$ increases approx. linearly with sol concn. Similar results are obtained when the system is centrifuged. R. S.

A58-SLA METALLURGICAL LITERATURE CLASSIFICATION

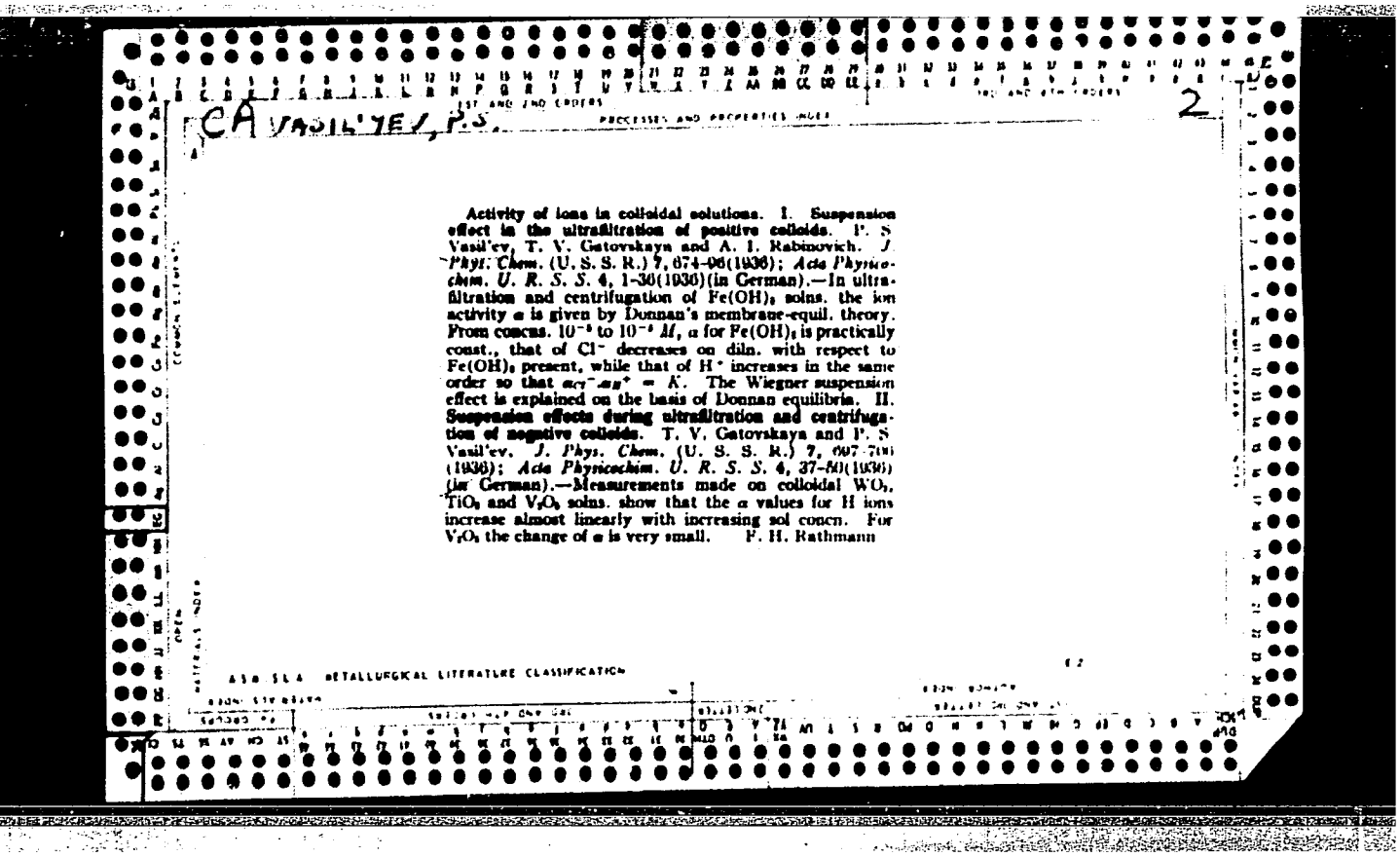


BC

11-1

Peptisation of colloids by electrolytes. I. Reversion of coagulation with formation of insoluble salts. P. VASSILIEV and N. DESCHALIT (Acta Physicochim. U.R.S.S., 1936, 4, 51—74).—When $Fe(OH)_3$ sol is coagulated by Na_2SO_4, Cl' is displaced from the surface of the particle to the intermicellar liquid by SO_4''. The gel can be peptised by addition of an equiv. amount of $BaCl_2$, with formation of $BaSO_4$, and it has been shown that Cl' is readsorbed during the peptisation. Repeated coagulations and peptisations are possible. Part of the $BaSO_4$ is pptd., whilst part remains in the col, and this has been shown by X-rays to have the ordinary crystal structure. Reversion of $Al(OH)_3$ and $Th(OH)_4$ gels is possible, but gels of negative colloids could not be peptised. The formation of $CaSO_4$ or $SrSO_4$ does not produce reversion, but $PbCrO_4$ is efficacious because of its low solubility product. R. S.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

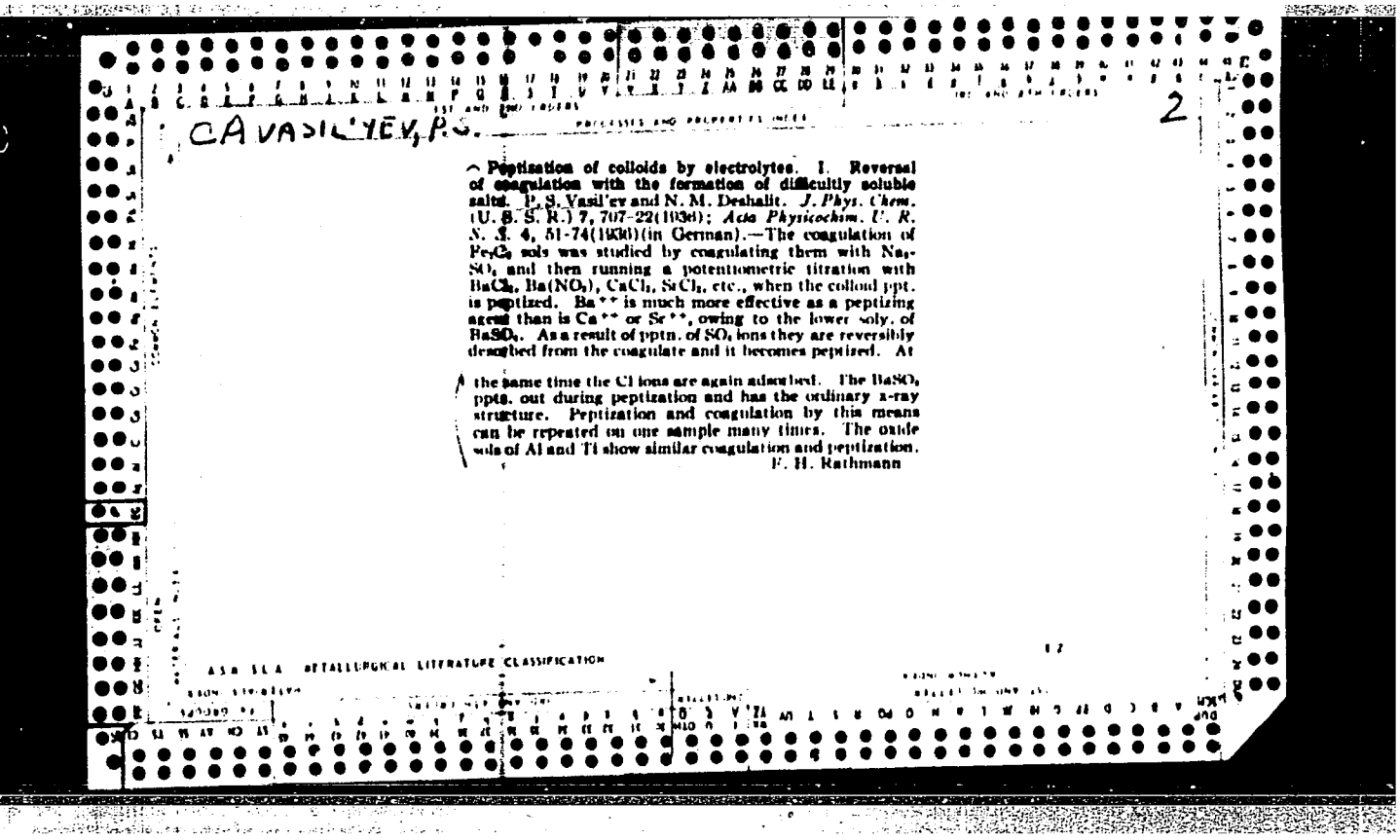


CA VASIL'YEV, P.S.

2

Activity of ions in colloidal solutions. I. Suspension effect in the ultrafiltration of positive colloids. P. S. Vasil'ev, T. V. Gatovskaya and A. I. Rabinovich. *J. Phys. Chem.* (U. S. S. R.) 7, 874-96(1936); *Acta Physicochim. U. R. S. S.* 4, 1-30(1936)(in German).—In ultrafiltration and centrifugation of $Fe(OH)_3$ sols, the ion activity a is given by Donnan's membrane-equil. theory. From concns. 10^{-3} to 10^{-4} M, a for $Fe(OH)_3$ is practically const., that of Cl^- decreases on dilu. with respect to $Fe(OH)_3$ present, while that of H^+ increases in the same order so that $a_{Cl^-} \cdot a_{H^+} = K$. The Wiegner suspension effect is explained on the basis of Donnan equilibria. II. **Suspension effects during ultrafiltration and centrifugation of negative colloids.** T. V. Gatovskaya and P. S. Vasil'ev. *J. Phys. Chem.* (U. S. S. R.) 7, 897-[illegible] (1936); *Acta Physicochim. U. R. S. S.* 4, 37-60(1936) (in German).—Measurements made on colloidal WO_3, TiO_3 and V_2O_5 sols. show that the a values for H ions increase almost linearly with increasing sol concn. For V_2O_5 the change of a is very small. F. H. Rathmann

A59 SL4 METALLURGICAL LITERATURE CLASSIFICATION



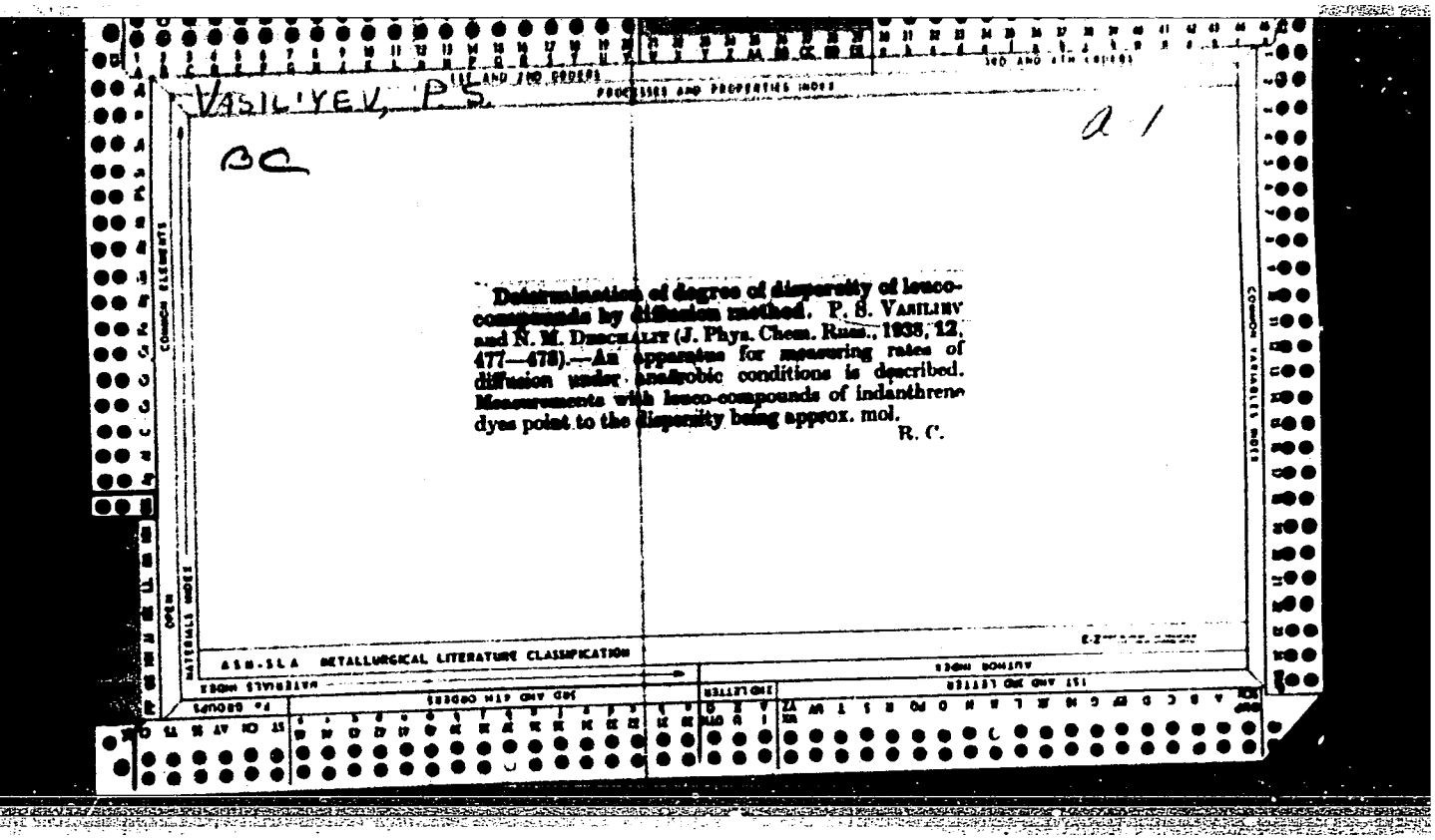
CA VASIL'YEV, P.S.

2

Peptisation of colloids by electrolytes. I. Reversal of coagulation with the formation of difficultly soluble salts. P. S. Vasil'ev and N. M. Deshalit. *J. Phys. Chem.* (U. S. S. R.) 7, 707-22(1936); *Acta Physicochim. U. R. S. S.* 4, 51-74(1936)(in German).—The coagulation of Fe_2O_3 sols was studied by coagulating them with Na_2SO_4 and then running a potentiometric titration with $BaCl_2$, $Ba(NO_3)_2$, $CaCl_2$, $SrCl_2$, etc., when the colloid ppt. is peptized. Ba^{++} is much more effective as a peptizing agent than is Ca^{++} or Sr^{++}, owing to the lower soly. of $BaSO_4$. As a result of pptn. of SO_4 ions they are reversibly desorbed from the coagulate and it becomes peptized. At the same time the Cl ions are again adsorbed. The $BaSO_4$ ppts. out during peptization and has the ordinary x-ray structure. Peptization and coagulation by this means can be repeated on one sample many times. The oxide sols of Al and Ti show similar coagulation and peptization.

F. H. Rathmann

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION



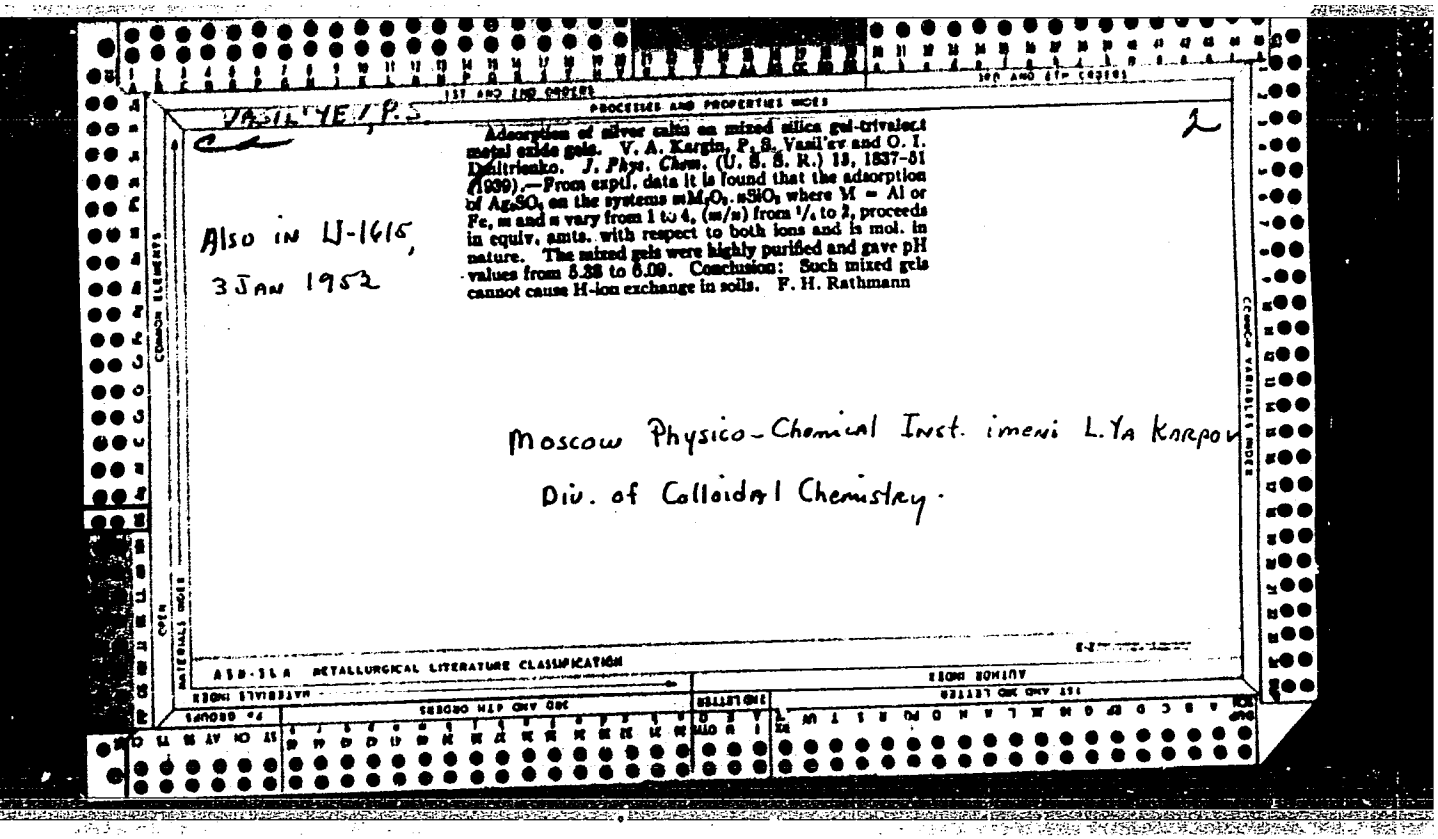
VASIL'YEV, P.S.

BC

A-1

Determination of degree of disperstty of leuco-compounds by diffusion method. P. S. Vasiliev and N. M. Dmochalit (J. Phys. Chem. Russ., 1938, 12, 477—478).—An apparatus for measuring rates of diffusion under anaërobic conditions is described. Measurements with leuco-compounds of indanthrene dyes point to the dispersity being approx. mol.

R. C.



VASIL'YEV, P. S.

2

Adsorption of silver salts on mixed silica gel-trivalent metal oxide gels. V. A. Kargin, P. S. Vasil'ev and O. I. Dmitrienko. *J. Phys. Chem.* (U. S. S. R.) 13, 1837–51 (1939).—From exptl. data it is found that the adsorption of Ag_2SO_4 on the systems $mM_2O_3 \cdot nSiO_2$ where M = Al or Fe, m and n vary from 1 to 4, (m/n) from 1/4 to 2, proceeds in equiv. amts. with respect to both ions and is mol. in nature. The mixed gels were highly purified and gave pH values from 5.38 to 6.09. Conclusion: Such mixed gels cannot cause H-ion exchange in soils. F. H. Rathmann

Also in U-1615, 3 Jan 1952

Moscow Physico-Chemical Inst. imeni L. Ya Karpov
Div. of Colloidal Chemistry.

BC

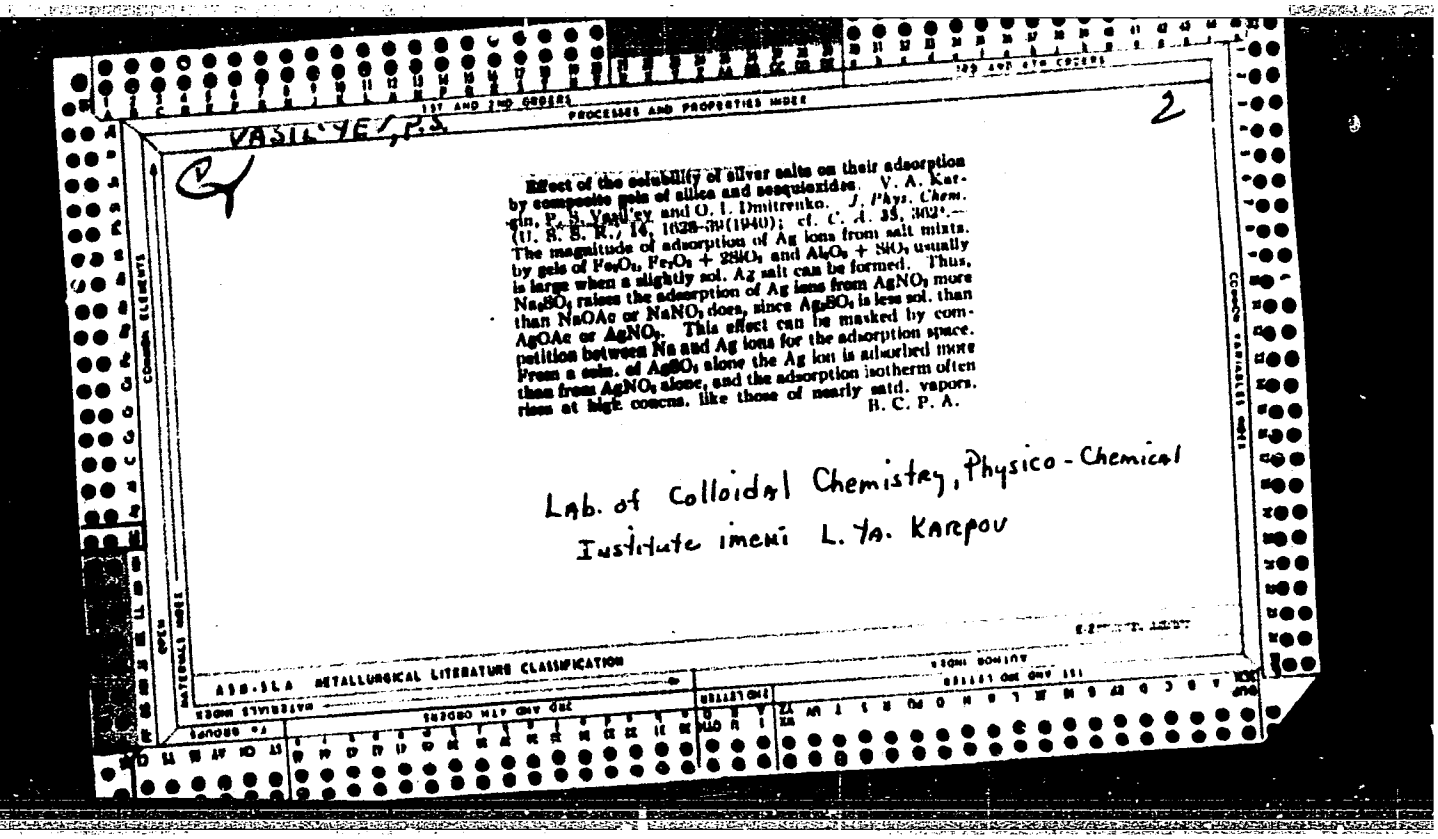
6-II-6

PROCESSES AND PROPERTIES INDEX

Distribution of dyestuff in the fibre and influence of [levelling] assistants. N. Deschalli and P. Vasiliev (*Acta Physicochim. U.R.S.S.*, 1940, 13, 697—714).—The diffusion of leuco-solutions of Indanthrene Dark Blue BO (I) (unlevel), Indanthrene Brilliant Green B (II) (medium level), and Indanthrene Yellow 5 GK (III) (level) from a hydrosulphite vat into Cellophane has been investigated by the photomicrometry of microtome sections of the dyed material 10—15 μ. thick. If the concn. of dye in the Cellophane is plotted against distance of penetration, a steeply-falling curve is obtained with (I), and less steep curves, showing greater depth of penetration, with (II) and (III); thus the more level dyes are characterised by smaller absorption and a higher effective velocity of diffusion. The effect of adding levelling agents (glue, hydroxyethylcellulose, or proprietary products) is to produce a marked flattening of the curve for (I), indicating reduced absorption. This reduction in absorption is not, however, accompanied by an increase in diffusion velocity, since the depth of penetration is also decreased. These effects are most marked with (I) and least with (III); *e.g.*, (I) is able alone to penetrate three layers of a built-up Cellophane sheet, but only two layers when mixed with Peregal, whilst (III) penetrates the same no. of layers both alone and in presence of Peregal. All the effects observed are adequately accounted for by assuming that a complex (the existence of which is established by independent experiments on free diffusion) between mols. of dyestuff and levelling agent is in dissociation equilibrium with its constituents. Accordingly the levelling agent acts by decreasing the effective concn. of dyestuff, and thus decreases both the absorption and the diffusion velocity. It also acts as a buffer by opposing large changes in the concn. of dyestuff during the progress of absorption, this effect being especially pronounced when low liquor ratios are used.

F. L. U.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION



VASIL'YEV, P.S.

2

Effect of the solubility of silver salts on their adsorption by composite gels of silica and sesquioxides. V. A. Kargin, P. S. Vasil'ev and O. I. Dmitrenko. *J. Phys. Chem.* (U. S. S. R.), 14, 1628-38(1940); cf. *C. A.* 35, 3024.— The magnitude of adsorption of Ag ions from salt mixts. by gels of Fe_2O_3, $Fe_2O_3 + 2SiO_2$ and $Al_2O_3 + SiO_2$ usually is large when a slightly sol. Ag salt can be formed. Thus, Na_2SO_4 raises the adsorption of Ag ions from $AgNO_3$ more than NaOAc or $NaNO_3$ does, since Ag_2SO_4 is less sol. than AgOAc or $AgNO_3$. This effect can be masked by competition between Na and Ag ions for the adsorption space. From a satn. of Ag_2SO_4 alone the Ag ion is adsorbed more than from $AgNO_3$ alone, and the adsorption isotherm often rises at high concns. like those of nearly satd. vapors.
B. C. P. A.

Lab. of Colloidal Chemistry, Physico-Chemical Institute imeni L. Ya. Karpov

1ST AND 2ND ORDERS

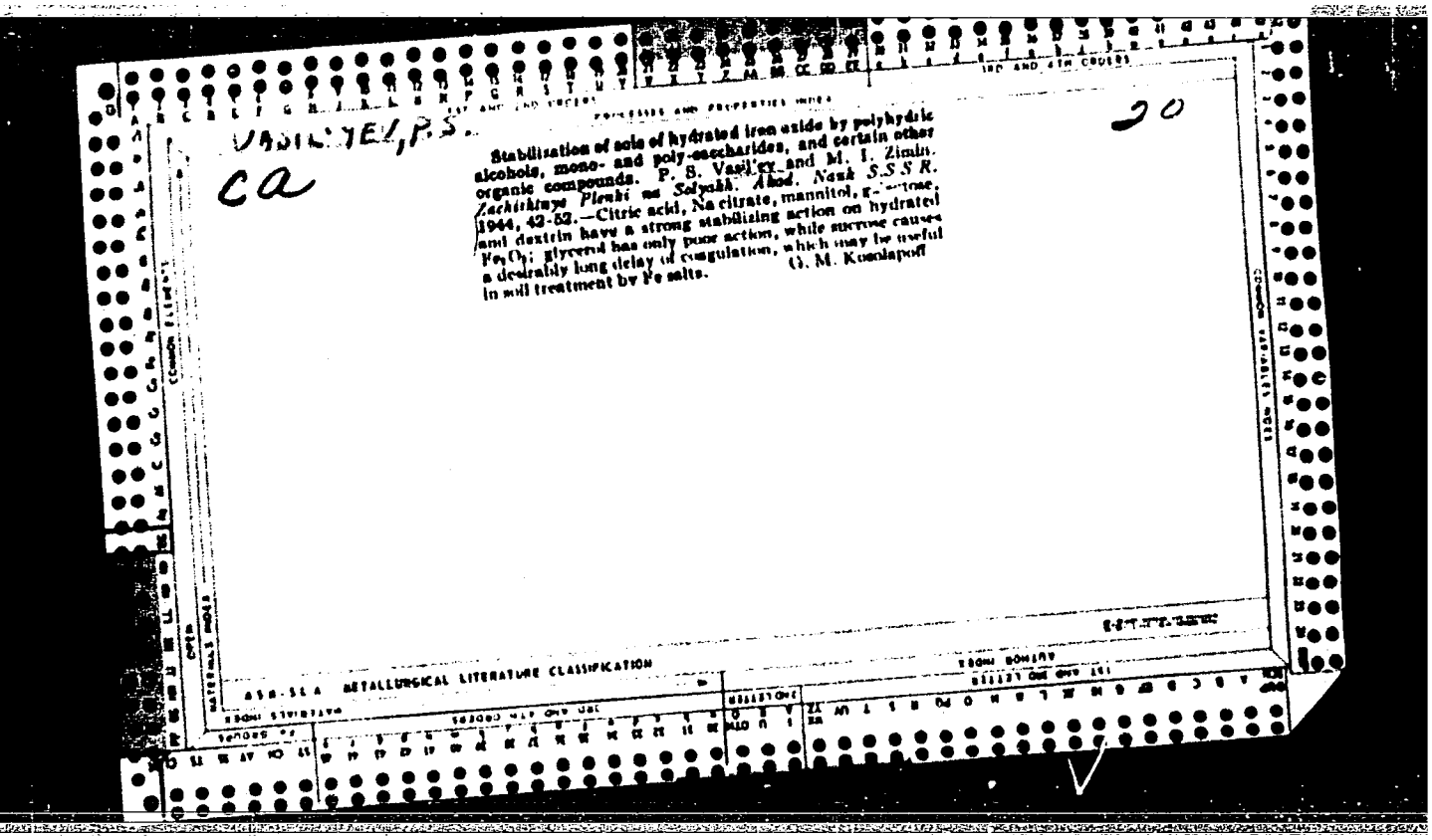
PROCESSES AND PROPERTIES INDEX

BC

B-2-6

Distribution of dyes in the fibre, and effect on use of [illegible] substances. N. M. Dunchalis and P. S. Vasil'ev (J. Appl. Chem. Russ., 1941, 14, 310—321).—The curve representing distribution of violanthrone in a Cellophane membrane through which the leuco-dye had been allowed to diffuse rises and falls sharply, whereas in the corresponding curves for Indanthrene Green B and Indanthrene Yellow 5 GK the descending branches are much flatter. More uniform distribution of dye is obtained in presence of "equalisers," such as cellulose dihydroxyethyl ether. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

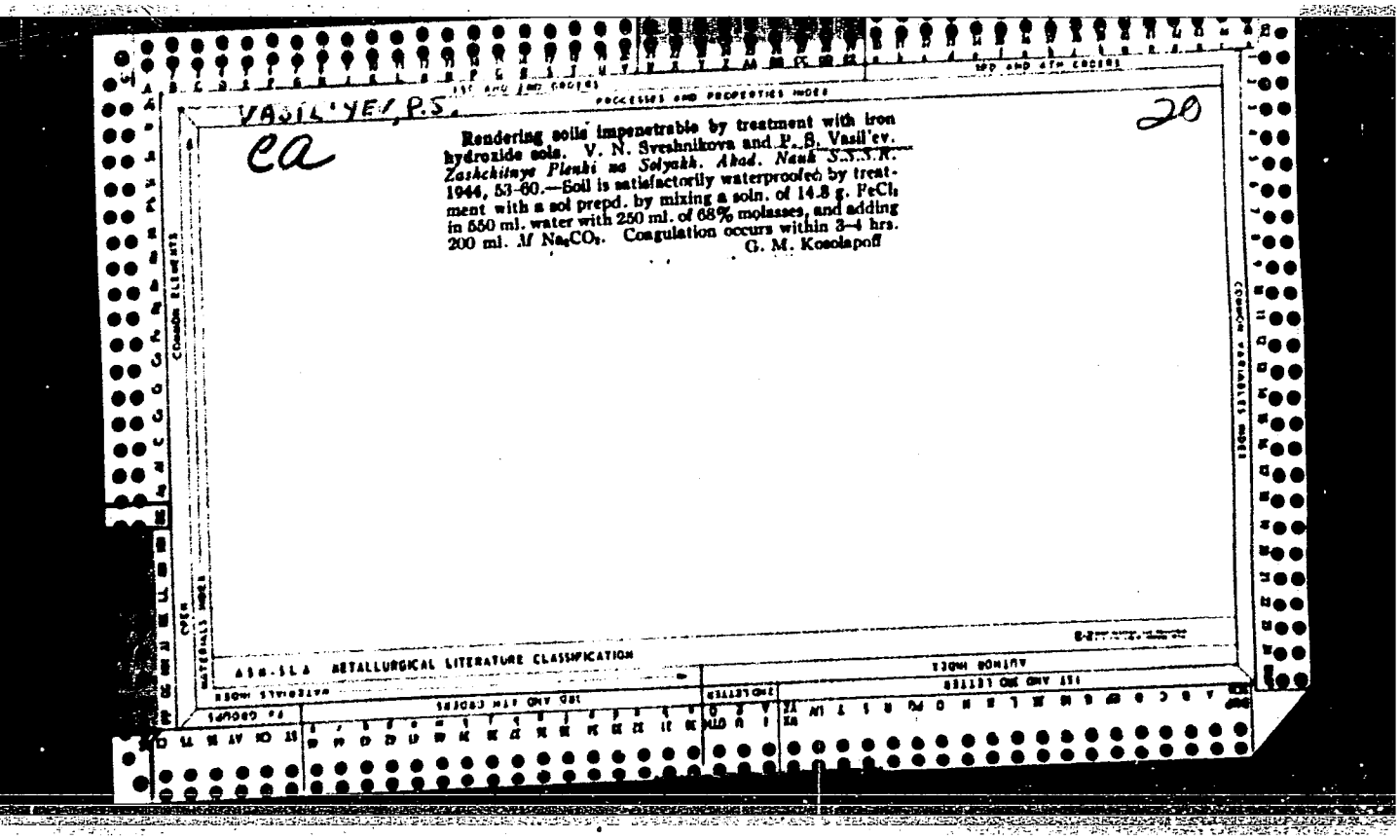


VASIL'EV, P.S.

ca

Stabilization of sols of hydrated iron oxide by polyhydric alcohols, mono- and poly-saccharides, and certain other organic compounds. P. S. Vasil'ev and M. I. Zimin. *Zachistnye Plenki na Solyakh. Akad. Nauk S.S.S.R.* 1944, 42-52.—Citric acid, Na citrate, mannitol, [illegible]-sucrose, and dextrin have a strong stabilizing action on hydrated Fe_2O_3; glycerol has only poor action, while sucrose causes a decidedly long delay of coagulation, which may be useful in soil treatment by Fe salts. G. M. Kondakoff

20



VASIL'YEV, P.S.

ca

20

Rendering soils impenetrable by treatment with iron hydroxide sols. V. N. Sveshnikova and P. S. Vasil'ev. *Zashchitnye Plenki na Solyakh. Akad. Nauk S.S.S.R.* 1944, 53-60.—Soil is satisfactorily waterproofed by treatment with a sol prepd. by mixing a soln. of 14.8 g. $FeCl_3$ in 550 ml. water with 250 ml. of 68% molasses, and adding 200 ml. *M* Na_2CO_3. Coagulation occurs within 3–4 hrs.

G. M. Kosolapoff

VASIL'YEV, P. S. Dr. Chem. Sci.

Dissertation: "Investigation of the Physicochemical Nature of Colloid Systems." Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev, 30 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

The subject and the principles of a course in colloid chemistry [illegible]

[illegible] colloidal solns." (which are thermodynamically reversible) and "colloidal sols" (irreversible) but avoid discussion of low-mol. solns. and macroscopic surfaces.

J. J. Bikerman

PA 233T6

USSR/Medicine - Blood Preservation Sep 52

"Preservation of Blood," A. A. Bagdasarov, Corr Mem, Acad Med Sci USSR, Prof P. S. Vasil'yev

"Nauka i Zhizn'" Vol 19, No 9, p 8

Reviews briefly the general aspects of blood transfusion and USSR work on blood preservation and fractionation. States that the Cen Inst of Blood Transfusion and Hematol has perfected methods which insure sterility of preserved blood and that blood can now be preserved for 40-45 days, erythrocytic mass for 1 mo, defibrinated plasma for over 1 yr. Mentions production of fibrin films (used in neurosurgical operations, for the treatment of burns and fresh wounds, etc.) and of hemostatic sponges contg thrombin.

233T6

VASIL'YEV, P. S. Prof

233T6

Changes in the lability of the protein systems of the blood in animals as a result of the injection of heterogeneous [illegible] erythrocytes [illegible]

2

[illegible] prior to the injection of the shock-producing agent and after the injections. The blood was centrifuged, the serum heated at 56° for 10 min., and the fibrin sepd. by centrifugation. Serum was then dild. with 1% NaCl so as to contain 5% protein. This was tested for viscosity, gelatinization time, and resistance to denaturation [illegible]. Two sets of expts. were performed [illegible]

[illegible]

[illegible] naturation by [illegible]; more profound was the lowering in viscosity. Injection of equiv. amts. of heterogeneous stroma likewise brought about a state of shock in the [illegible] the dogs. Such shocks [illegible] shocks [illegible] blood. The [illegible] actions to the injection of heterogeneous erythrocytes were in every respect analogous to those of whole-blood injections.

B. S. Levine

Inst. [illegible] Inst. Hematology & Blood Transfusion

VASIL'YEV, P.S., prof.

Plasma substitutes in the Soviet Union during the last 40 years. Probl.gemat. i perel.krovi 2 no.5:36-42 S-O '57. (MIRA 11:1)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Bagdasarov) Ministerstva zdravookhraneniya SSSR.
(PLASMA SUBSTITUTES
use in Russia, progr.)

VASIL'YEV, P. S.

"The protein structures which are necessary for blood-transfusion"

report presented at the 10th All-Union Conf. on Highly Molecular Compounds, Biologically Active Polymer Compounds, Moscow, 11-13 June 1958. (Vest. Ak Nauk SSSR, 1958, No. 9, pp. 111-113)

VASIL'YEV, P.S.

BAGDASAROV, A.A., prof.; VASIL'YEV, P.S., prof.; FROM, A.A.

Problems in classification of blood substitutes. Vest.AMN SSSR 13 no.4:58-61 '58. (MIRA 11:4)

1. Deystvitel'nyy chlen AMN SSSR.
(PLASMA SUBSTITUTES
classif. (Rus))

VASIL'YEV, P.S., prof.; KOZLOVA, V.Ya.; FRINOVSKAYA, I.V.

Change in blood proteins in leukemia. Probl.gemat. i perel. krovi 4 no.11:49-53 N '59. (MIRA 13:3)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i pereli-vaniya krovi (direktor - deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR.
(LEUKEMIA blood)
(BLOOD PROTEINS chemistry)