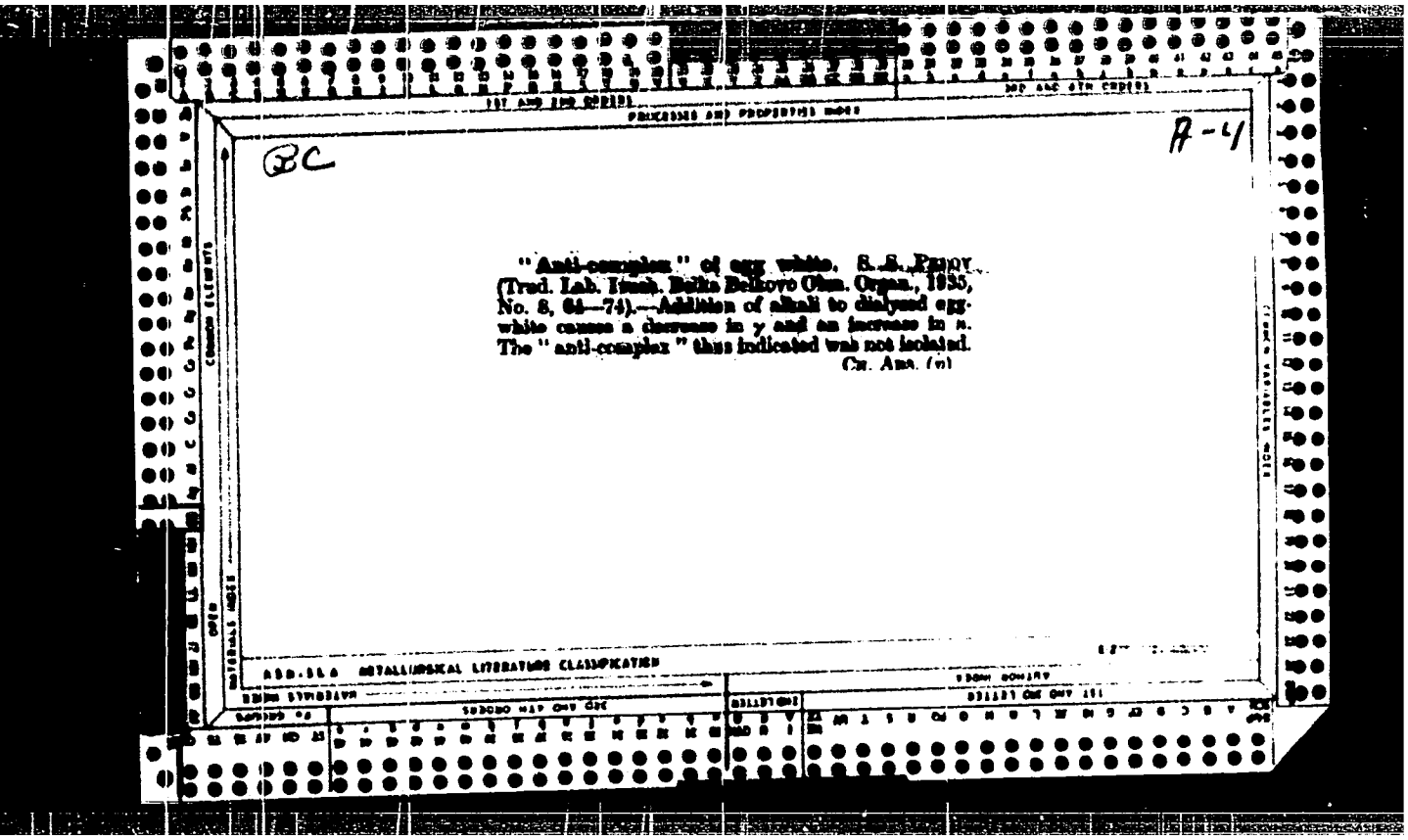

BC

A-4

"Anti-complex" of egg white. S. S. Penov. (Trud. Lab. Issled. Belka Belkovo Obm. Organ., 1935, No. 8, 68—74).—Addition of alkali to dialysed egg-white causes a decrease in γ and an increase in n. The "anti-complex" thus indicated was not isolated.
Ch. Abs. (e)

PEROV,S.S.; IVANOV,N.I., redaktor; PECHKOVSKAYA,T.V., tekhnicheskiy redaktor

[Physical and chemical indicators for the series of protoacids in the dynamics of concentrations and temperatures; on the problem of the structure of protein substances.] Fiziko-khimicheskie pokazateli riada protokislot v dinamike kontsentratsii i temperatur; k probleme stroeniia bel'kovykh veshchestv. Moskva, Gos. izd-vo selkhoz. lit-ry, 1947. 39 p. (MLRA 9:3)

1. Chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Perov)
(Proteins) (Acids, Organic)

PEKOL, S.S.; IVANOV, N.I., redaktor; PECHKOVSKAYA, T.V., tekhnicheskiy redaktor

[Caseinic protein protoacid; methods of extraction and physico-chemical characteristics] Kazeinovaia bel'kovaia protokislota; metody polucheniia i fiziko-khimicheskaia kharakteristika. Moskva, Gos. izd-vo selkhoz. lit-ry, 1947. 61 p. (MLRA 9:3)

1. Deystvitel'nyy chlen Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina
(Caseinic acid) (Proteins)

PEROV, S. S. PA 2075

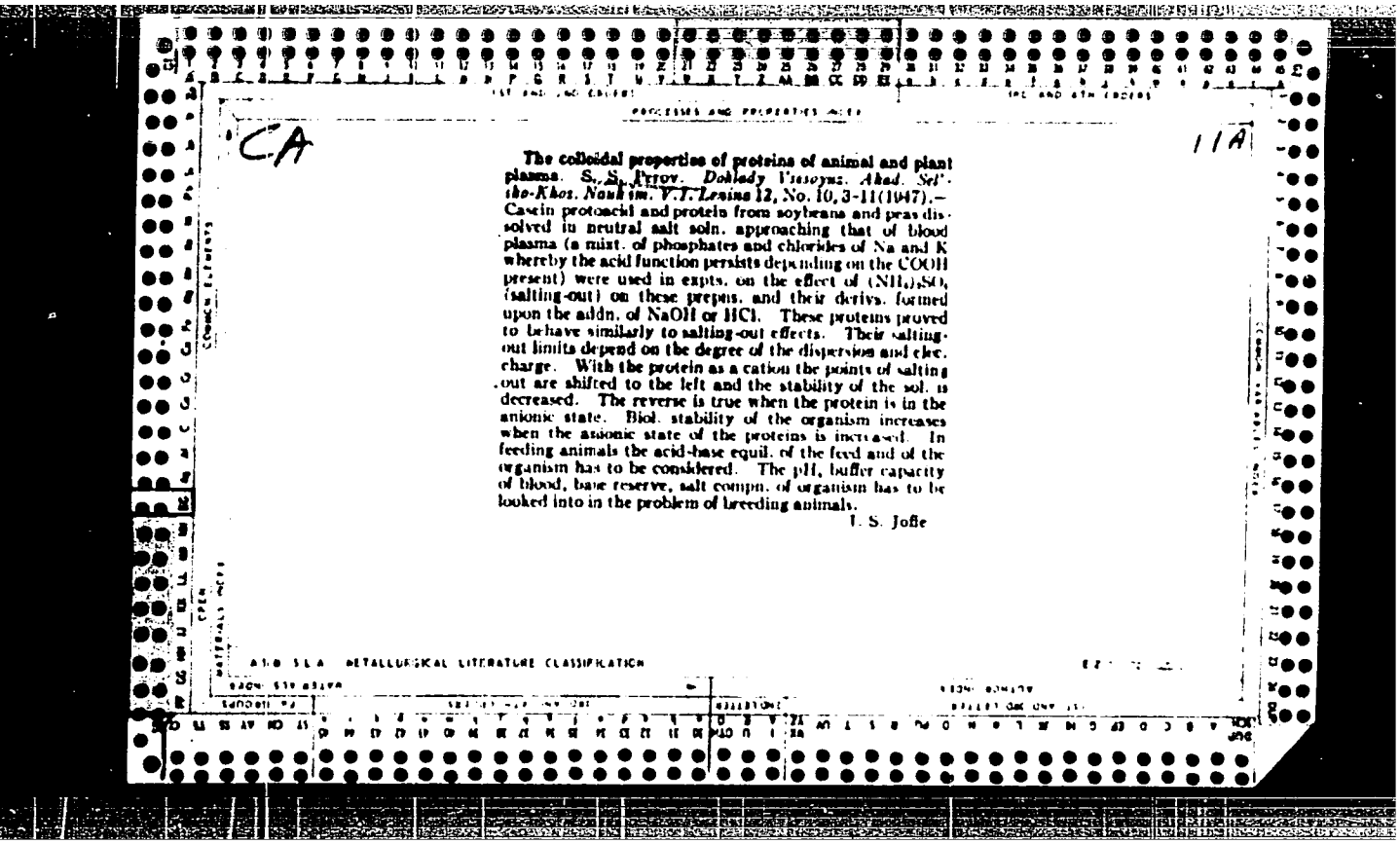
USSR/Chemistry Jun 1947
Agriculture
Albumins

"Albuminoid Proto-acids in the Seeds of Herbs, Shrubs, and Trees," S. S. Perov, Acting Member of the All-Union Academy of Agricultural Sciences imeni Lenin, 6 pp

"Dok V-S Ak Selkhoz Nauk im Lenina" Vol XII, No 6

Gives four tables of data on the chemical analysis of various seeds and their reactions in 1% solutions of sodium proteinate. Discussion concluding that it is possible to extract albumins of proto-acid type from said seeds by a uniform method, i.e., albumins of an acid function titrated by sodium hydroxide.

2075



CA

11A

The colloidal properties of proteins of animal and plant plasma. S. S. Pirov. *Doklady Vsesoyuz. Akad. Sel'skho-Khoz. Nauk im. V. I. Lenina* **12**, No. 10, 3-11 (1947).—Casein protoacid and protein from soybeans and peas dissolved in neutral salt soln. approaching that of blood plasma (a mixt. of phosphates and chlorides of Na and K whereby the acid function persists depending on the COOH present) were used in expts. on the effect of $(NH_4)_2SO_4$ (salting-out) on these preps. and their derivs. formed upon the addn. of NaOH or HCl. These proteins proved to behave similarly to salting-out effects. Their salting-out limits depend on the degree of the dispersion and elec. charge. With the protein as a cation the points of salting-out are shifted to the left and the stability of the sol. is decreased. The reverse is true when the protein is in the anionic state. Biol. stability of the organism increases when the anionic state of the proteins is increased. In feeding animals the acid-base equil. of the feed and of the organism has to be considered. The pH, buffer capacity of blood, base reserve, salt compn. of organism has to be looked into in the problem of breeding animals.

I. S. Joffe

PROCESSES AND PROPERTIES INDEX

CA

Colloidal properties of purified casein albumin protoacid in an active acid medium. S. S. Petrov. *Doklady Vsesoyuz. Akad. Sel'sko-Khoz. Nauk im. V. I. Lenina* 12, No. 12, 20-8(1947); cf. C.A. 42, 6386g. The prepn. of pure "casein protoacid" and Na caseinate is described. Solns. of Na caseinate (4 and 0°C.) on addn. of HCl give a sol, gel, or sandy ppt. Low pH and low temp. favor milky gel formation, pH below 1.5 gives a ppt. and clear liquid. The rate of gelation increases very rapidly with decrease in pH. The results are explained by von Weimarn's theory of relative concn. of nuclei for the formation of free protoacid.

Worden Waring

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PEROV. S. S.

PA5/49T61

USSR/Medicine - Albumin
Chemistry - Albumins

Mar 48

"Standard of Protocaseinic Acid as the Most Typical and Widely Distributed Albumin," S. S. Perov, Active Mem, All-Union Acad Agr Sci imeni V. I. Lenin, 5½ pp

"Dok v-s Ak Selkhoz Nauk" No 3

Explains importance of having standard for comparing other albumins. Describes preparation of protocaseinic acid from milk. Equivalent weight is 1,220 (mean of 500 samples). Tabulates numerous physical and chemical properties. Submitted 24 Jan 48.

5/49T61

PEROV, S. S.

FA 33/49T13

USSR/Chemistry - Albumin Jun 48
Chemistry - Anhydration

"The Loss in Weight of Pure Albumin Protoacid at 105° (the Problem of the Relation of Albumin and Water)," S. S. Perov, Active Mem, All-Union Acad Agr Sci imeni V. I. Lenin, 10 pp

"Dok v-s Ak Selkhoz Nauk" No 6

Ordinary albumin in form of protoacids has constant water content. Anhydration occurs at temperatures of 100 - 105°. In this process, water is eliminated from two carboxyls in albumin protoacid. Separation of water can be conducted by mechanical dehydrators. Casein albumin protoacid in

33/49T13

USSR/Chemistry - Albumin (Contd) Jun 48

precipitation reactions contains about 85% water, in various forms; at its isoelectric point. Submitted 14 May 48.

33/49T13

PEROV, S. S.

FA 33/49T15

USSR/Chemistry - Albumin
Chemistry - Analysis

Oct 48

"Basic Technological Principles of Pure Vegetable Nutrient Albumin," S. S. Perov, All-Union Acad Agr Sci imeni V. I. Lenin, 12 pp

"Dok v-s Ak Selkhoz Nauk" No 10

Developments in biochemistry of protides have led to determining simplicity of native albumin structure. Nevertheless native albumin must be considered complex ester-like or salt-like compound, where acid part is composed of protoacid and alkaline part of histamine. Pure nutrient albumin

33/49T15

[redacted]

USSR/Chemistry - Albumin (Contd)

Oct 48

can be obtained from substrata of seeds by simple method. It can be mixed into cattle feed in relatively large proportions. Submitted 7 Aug 48.

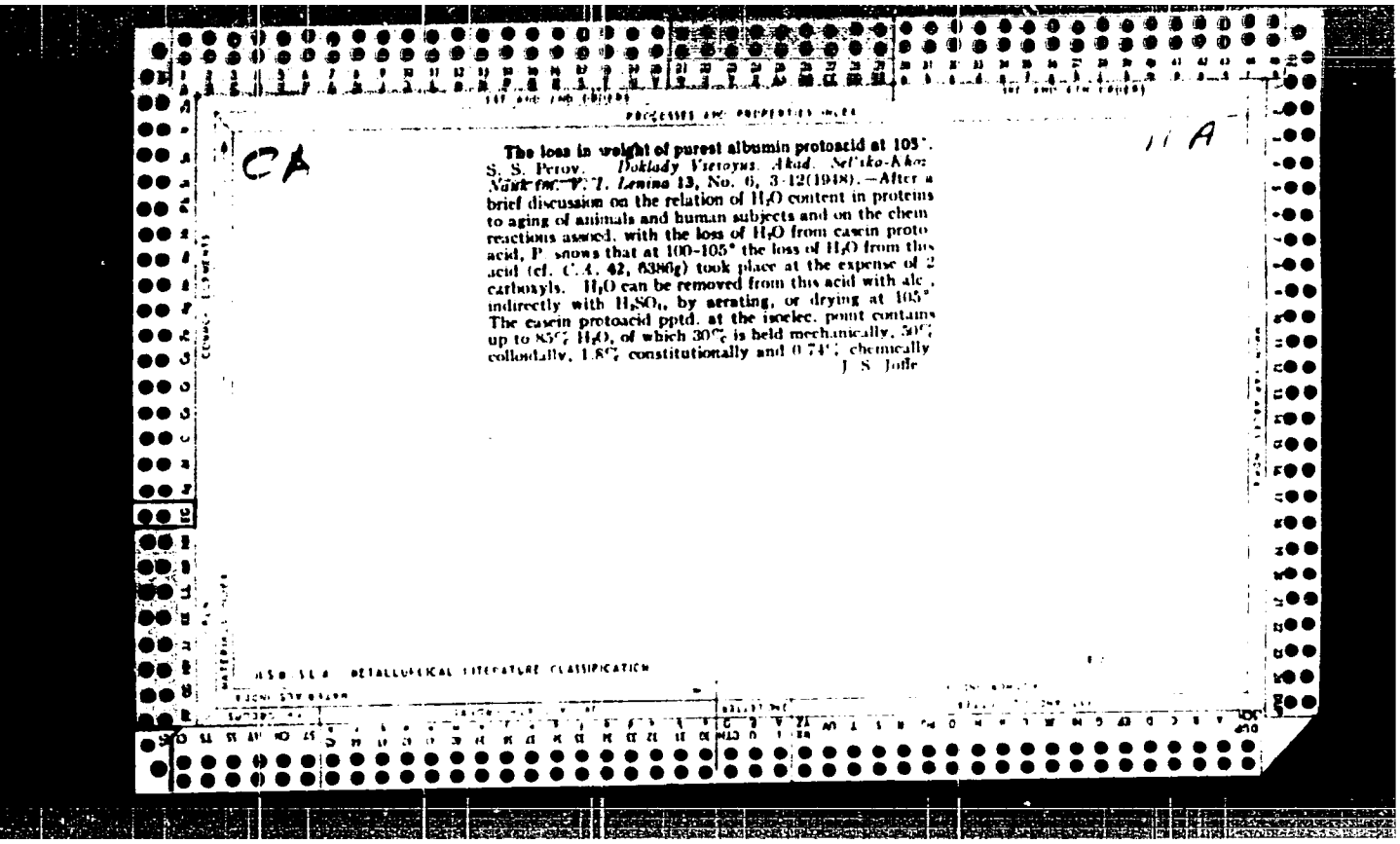
[redacted]

33/49T15

CA

Casein protoacid standard as the most typical and wide spread protein substance S. S. Petrov. *Doklady Vses. Akad. Sel'sko-Khoz. Nauk im. V. I. Lenina* 13, No. 3, 8(1948). The protein of milk is pptd. with AcOH and is kept in the acid medium to remove the anticomplex. The ppt. is dissolved in 0.5% NaOH. To hydrolyze the protein, it is heated and pptd. at pH 4.7, the isoelec. point of casein protoacid. The product is dissolved and repptd. several times, then washed with water, alc., and ether and dried over H_2SO_4. The yield of this product is 30 g. per l. of milk. Close to 500 prepns. were made and by titration with 0.1 N NaOH the equiv. wt. was detd. as 1200. This prepn., its chem., and physicochem. properties are described. J. S. Joffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

11 A

The loss in weight of purest albumin protoacid at 105°. S. S. Petov. *Doklady Vsesoyus. Akad. Sel'sko-Khoz. Nauk im. V. I. Lenina* 13, No. 6, 3-12(1948).—After a brief discussion on the relation of H_2O content in proteins to aging of animals and human subjects and on the chem. reactions assocd. with the loss of H_2O from casein proto- acid, P. shows that at 100–105° the loss of H_2O from this acid (cf. C.A. 42, 6386g) took place at the expense of 2 carboxyls. H_2O can be removed from this acid with alc., indirectly with H_2SO_4, by aerating, or drying at 105°. The casein protoacid pptd. at the isoelec. point contains up to 85% H_2O, of which 30% is held mechanically, 50% colloidally, 1.8% constitutionally and 0.74% chemically.

J. S. Joffe

USSR 11 A METALLURGICAL LITERATURE CLASSIFICATION

PERCV, S.

Perov, S.: "The problem of making rational use of the blood of livestock", Myas. industriya, 1949, No. 1, p. 81-84.

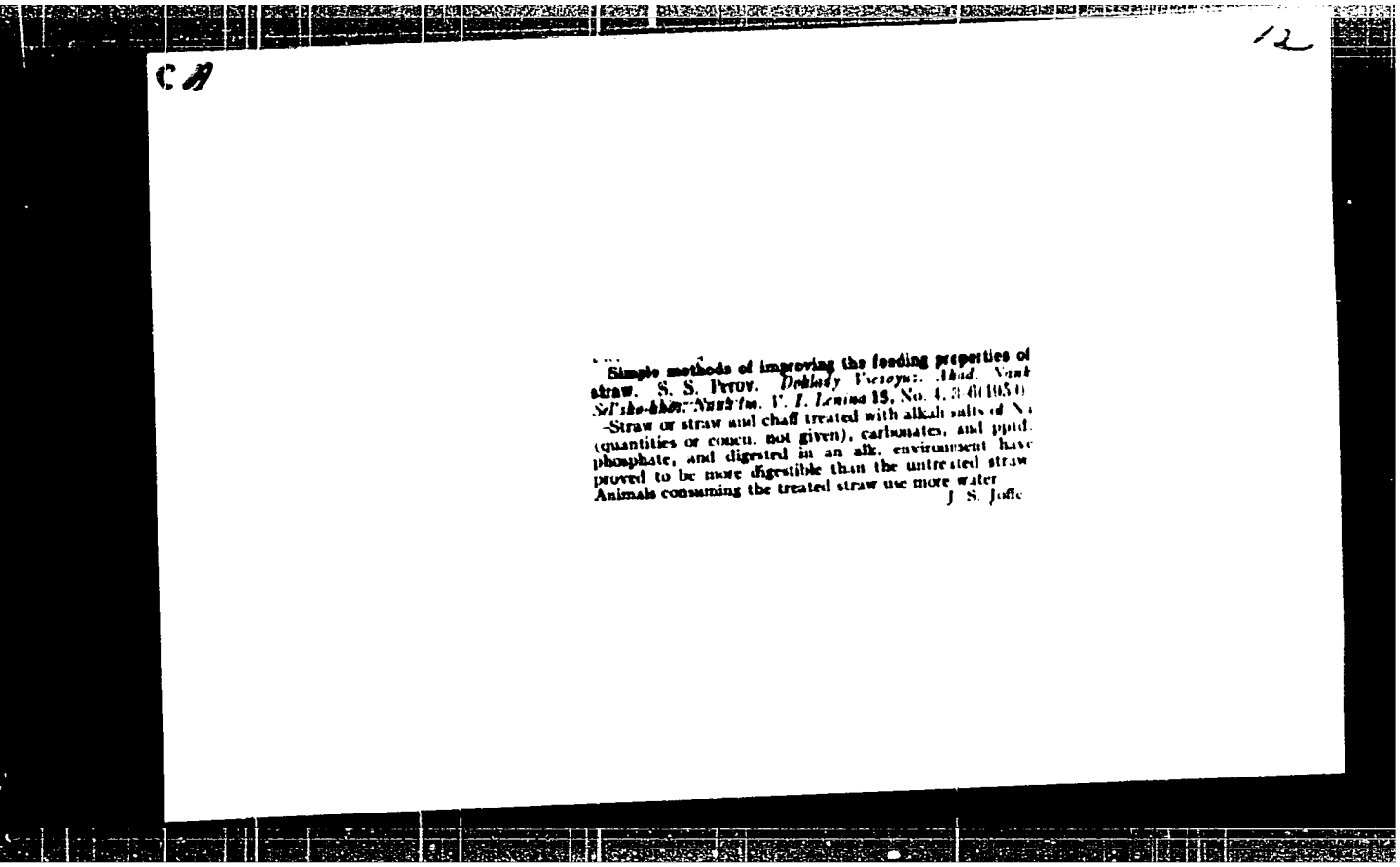
SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

PEROV, S.B.

25865

Voprosy obrabotki grubykh kormov dlyn povysheni ish perevarimosti. Trudy Vsesoyuz. nauch-issled. in-ta zhivotnovodstva, T. XVI, 1949, s. 206-17.
Po-bolshevistski provedem zhizn'resheniya plenuma TS.K. KP. (b) B. sm. 25432.
Podgotovka kolkhoznykh veterinarnykh izhivotnovodcheskich kadrov-v tsentr vnimaniya. sm. 25910

SO: Letopis' No. 34



12

C A

Simple methods of improving the feeding properties of straw. S. S. Petov. *Doklady Vsesoyuz. Akad. Sel'sko-khoz. Nauk im. V. I. Lenina* 15, No. 4, 3-6(1950).—Straw or straw and chaff treated with alkali salts of Na (quantities or concn. not given), carbonates, and phtd. phosphate, and digested in an alk. environment have proved to be more digestible than the untreated straw. Animals consuming the treated straw use more water.

J. S. Joffe

PEROV, S. Acad. and KIRILLOV, V. Master of Tech. Sci.

"Russian Republic Ministry of Local Industry Does Little About New Technology and Saving Food Raw Materials," Izvestiya, 15 Dec 55

Current Digest of Soviet Press, VII, No.50, 25 Jan 56

PERO

INIKHOV, Georgiy Sergeyevich, zasluzhennyy deyatel' nauki i tekhniki, doktor khimicheskikh nauk, professor; PERON, S.S., retsenzent; SEMENETS, Z.F., retsenzent; GORYAYEV, M.I., spetsredaktor; AKIMOVA, L.D., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor

[Biochemistry of milk and milk products] Biokhimiia moloka i molochnykh produktov. Moskva, Pishchepromizdat, 1956. 294 p. (MIRA 10:1)

(Milk--Analysis and examination)

PEROV, S. S.

1

The amino acid analysis of proteins. S. S. Perov. *Doklady Vsesoyuz. Akad. Sel'skokhoz. Nauk im. V. I. Lenina* 21, No. 3, 33-6(1956).—A crit. review of the paper by Levyant, *et al.* (*C.A.* 46, 5100*d*), who claimed to be able to identify protein preps. by analyzing for their amino acids. P. cites their data on a no. of proteins and compares their analyses with those of others and shows the discrepancies. I. S. Joffe

PEROV, S.S., akademic.

Initial analytic methods for studying animal proteins. Dokl.Akad. sel'khoz. 21 no.9:7-1- '56. (MLRA 9:10)
(Proteins)

PERNOV, S.S., akademik; SADOKOVA, A.P., kandidat biologicheskikh nauk

Muscle proteins of farm animals. Dokl.Akad.sel'khoz.22 no.5:30-34 '57. (MLRA 10:9)

(Proteins) (Muscle)

PEROV, S.S., akademik.

Some errors in the practice and behavior of the advocates of artificial insemination. Zhivotnovodstvo 20 no.4:87 Ap '58. (Artificial insemination) (MIRA 11:3)

MATSKEVICH, V.V., LOBANOV, P.P., CHEKMENEV, Ye.M., SKRYABIN, K.I., LOZA, G.M., POPOV, I.S., PEROV, S.S., SINYAGIN, I.I., YAKUSHKIN, I.V., NIKOLAYEV, A.I., ROSTOVTSEV, N.F., YUDIN, V.M., POPOV, N.F., RED'KIN, A.P., SMETNEV, S.I.

E.F.Liskun. Dokl. Akad. sel'khoz. 23 no. 5:48 '58. (MIRA 11:8)
(Liskun, Efim Fedotovich, 1873-1958)

PEROV, S.S., akademik; SADAKOVA, A.P., kand. biol. nauk.

Qualitative analysis of the protein content of the liver of cattle.
Dokl. Akad. sel'khoz. 23 no.8:23-26 '58. (MIRA 11:8)
(Protein metabolism) (Liver)

PEROV, S.S., akademik; SADOKOVA, A.P., kand. biol.nauk

Calcium salts of casein protoacid, their production and [illegible] for the organism. Dokl. Akad. sel'khoz. nauk no.10:31-[illegible] '[illegible]. (MIRA 18:12)

1. Institut fiziologii i biokhimii sel'skokhozyaystvennykh zhivotnykh.

USSR / Farm Animals. General Problems. Q-1

Abs Jour : Ref Zhur - Biol., No. 14, 1958, No 64399

Author : Perov, S.S.; Sadokova, A. P.
Inst : All-Union Ordena Lenin Academy of Agricultural Sciences imeni V. I. Lenin
Title : The Proteins in the Muscles of Farm Animals.

Orig Pub : Dokl. VASKhNIL, 1957, No. 5, 30-34.

Abstract : In the muscles of farm animals, there are two types of proteins: albuminous muscle proteic acid in the amount of 70-80% of the total nitrogen, and albuminous anti-complex, characterized by opposite properties - solubility in water, hydrophobic nature, and high surface activity. The muscle proteic acid and anti-complex respond positively to protein reactions. The rations of young animals should contain 70-80% of albuminous proteic acid out of the total amount of nitrogenous substances.

Card 1/1

IVANOV, A.Ye.; KOZLOVSKIY, N.G.; KAL'CHENKO, S.V., redaktor; MART'YANOV, P.M., redaktor; PYROV, S.V., redaktor; PYLAYEVA, A.P., redaktor; TERESHCHENKO, N.I., redaktor; OVCHINNIKOVA, A.E., redaktor; RAKITINA, Ye.D., redaktor; VALLOD, A.I., tekhnicheskiy redaktor; VNSKOVA, Ye.I., tekhnicheskiy redaktor

[Handbook for directors of state farms] Spravochnaia kniga direktora sovkhoza. Izd. 3-e, perer. Moskva, Gos. izd-vo sel'khoz. lit-ry. Pt.1.1956. 952 p. Pt.2.1956. 1016 p. (MLRA 10:3)
(State farms)

PEROV, S.V.

DEDE'ER, A.A.; DZYUBA, M.L.; YUROVITSKIY, Ye.I.; GERASIMOV, P.K., red.; KARAVAYEV, A.A., red.; PEROV, S.V., red.; SAVEL'YEV, B.V., red.; YAKUSHKIN, I.V., red.; VESKOVA, Ye.I., tekhn.red.; PEVZNER, V.I., tekhn.red.

[Yearbook for the collective farm worker for 1958] Kalendar' kolkhoznika na 1958 god. Moskva, Gos. izd-vo sel'khoz. lit-ry, [1957] 175 p. (MIRA 11:6)
(Agriculture--Yearbooks)

DZYUBA, A.A.; DZYUBA, M.L.; YUROVITSKIY, Ye.I.; GERASIMOV, P.K., redaktor; KARAVAYEV, A.A., redaktor; PETROV, S.V., redaktor; SAVEL'YEV, B.V., redaktor; YAKUSHKIN, I.V., redaktor; VESKOVA, Ye.I., tekhnicheskiy redaktor

[Collective farmer's almanac for 1957] Kalendar' kolkhoznika na 1957 god. Moskva, Gos. izd-vo selkhoz. lit-ry [1956] 175 p.
(Almanacs) (Agriculture) (MLRA 9:12)

TELYATNIKOV,N.N.; VARUNTSYAN,I.S., akademik, redaktor; GLUSHCHENKO,I.Ye., doktor biologicheskikh nauk, redaktor; YENIKEYEV,Kh.K., kandidat bilogicheskikh nauk, redaktor; OL'SHANSKIY,M.A., akademik, redaktor; PEROV,S.V., kandidat ekonomicheskikh nauk, redaktor; PREZENT,I.I., akademik, redaktor; KHALIFMAN,I.A., kandidat biologicheskikh nauk, redaktor; YAKOVLEV,P.N., akademik, redaktor; BALLOD,A.I., tekhn. red.

[Michurin science in the service of the people; a collection of articles] Michurinskoe uchenie na sluzhbe narodu; sbornik statei. Moskva, Gos.izd-vo selkhoz.lit-ry. No.1. 1955. 269 p. (MLRA 9:4)

1. Vsesoyuznaya Akademiya sel'skokhozyaistvennykh nauk imeni V.I.Lenina.
(Michurin, Ivan Vladimirovich, 1855-1935) (Plant breeding)

DINGER, A.A., redaktor; DZYUBA, M.L., redaktor; YUROVITSKIY, Ye.I., redaktor; GERASIMOV, P.K., redaktor; KARAVAYEV, A.A., redaktor; PEROV, S.V., redaktor: SAVEL'YEV, B.V., redaktor; YAKUSHKIN, I.V., redaktor; PERESYPKINA, Z.D., tekhnicheskiy redaktor

[Collective farm worker's calendar for 1955] Kalendar' kolkhoznika na 1955 god. Moskva, Gos. izd-vo selkhoz. lit-ry, [1954] 174 p. [Microfilm] (MLRA 9:8)

(Agriculture--Yearbooks)

PEROV, V.; BATUGINA, I., markscheyder (g.Kiselevsk); CHICHINDAYEV, D.

Response to "Master ugl'ia" articles. Mast.ugl. 9 no.5:22 My '60.
(MIRA 13:7)

1. Zaveduyushchiy otdelom massovoy raboty Dvortsa kul'tury shakhterov, g.Melidovo (for Perov). 2. Shakhta No.12, Kemerovskoy oblasti (for Chichindayev).

(Working men's clubs)

ACC NR: AM7004484 SOURCE CODE: UR/9012/67/000/041/0003/0003

AUTHOR: Perov, V. (Candidate of technical sciences)

ORG: none

TITLE: Automatic information

SOURCE: Pravda, no. 41, 10 Feb 67, p. 3, cols. 5-7

TOPIC TAGS: automation, automation equipment, information processing, computer program logic

ABSTRACT:

At the All-Union Institute of Scientific and Technical Information, work has started on the development of automatic information-logic systems based on electronic computers. An information system has been planned for the mechanical processing of information on the properties and uses of 20,000 individual inorganic compounds. Even a full processing does not exceed 15—20 min, and sometimes only 30 to 35 sec.

SUB CODE: 09/3/ SUBM DATE: none/ ATD PRESS: 5114

Card 1/1 UDC: none

PEROV, V

AID P - 4664

Subject : USSR/Aeronautics - Training (DOSAAF)

Card 1/1 Pub. 58 - 4/14

Author : Perov V., Member of the Komsomol Committee, Moscow Aviation Institute

Title : A students' aeroclub

Periodical : Kryl. rod., 3, 6-7, Mr 1956

Abstract : The article narrates the foundation, the development and the achievements of the Students' Aeroclub of the Moscow Aviation Institute (MAI). Institute's DOSAAF organization is praised for the assistance it is giving to the Club. No factual data of informative value. 13 photos of the members of the Club having the title of sportsmen.

Institution : ~~None~~ Moscow Aviation Inst.

Submitted : No date

ANDREYEV, Sergey Yefimovich; ZVEREVICH, Viktor Vladimirovich; PEROV, Valentin Aleksandrovich; VERKHOVSKIY, I.M., prof., retsenzent; FREYGERZON, G.I., dots., retsenzent; RUDENKO, K.G., dots., retsenzent; OLEVSKIY, V.A., kand. tekhn. nauk, retsenzent; RYKOV, N.A., otv. red.; GARBER, T.N., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Crushing, milling, and screening minerals]Droblenie, izmel'chenie i grokhochenie poleznykh iskopaemykh. Moskva, Gosgortekhizdat, 1961. 384 p. (MIRA 15:9)
(Ore dressing)

9,6100 (1051, 1057)

31655
S/549/61/000/103/004/005/
D035/D113

AUTHOR: Perov, V.A., Engineer

TITLE: Contribution to the problem of selecting a rational scheme for a horizon simulator

SOURCE: Moscow. Vysshaye tekhnicheskoye uchilishche. [Trudy] no. 103, 1961. Opticheskoye priborostroyeniye, 103-111.

TEXT: The article deals with the selection of the basic, most practicable schemes for projecting the line of horizon onto the screen of a specialized flight simulator. Plane and spherical screens are discussed. For the former, the author suggests that the projector be placed behind the screen, and that the projection and optical system developed at the MVTU (Fig.3) be adopted. In this system, the technical design of which is already completed, the prism and mirror are mobile parts. The former simulates changes in the angle of bank and the latter changes in the angle of pitch. These parts are selected so that the final angle on the screen is double that read on these elements. For spherical screens, the author recommends the method of "shadow projection" based on the principle that sharp images are obtained if a diapositive, illuminated by a pointed source of light, is projected on a screen. A wide angle of variation of projection can thus be achieved, and the problem of realisti-

Card 1/4 2

YEVDOKIMOV, Pavel Dmitriyevich; PEROV, V.A., dotsent, kand.tekhn.nauk, retsenzent; NIKOL'SKIY, D.A., inzh., retsenzent; USHAKOV, M.V., inzh., retsenzent; KONTSEDALOV, A.I., inzh., retsenzent; VOL'PERT, B.M., inzh., otv.red.; GARBER, T.N., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; BOLDYREVA, Z.A., tekhn.red.

[Design and operation of a tailings storage department in ore-dressing plants] Proektirovanie i ekspluatatsiia khvostovykh khoziaistv obogatitel'nykh fabrik. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 417 p. (MIRA 14:3)

(Tailings (Metallurgy))

ANDREYEV, Sergey Yefimovich; ZVEREVICH, Viktor Vladimirovich; PEROV, Valentin Aleksandrovich; VERKHOVSKIY, I.M., prof., retsenzent; FREYGERZON, G.I., dots., retsenzent; RUDENKO, K.G., dots., retsenzent; OLEVSKIY, V.A., kand. tekhn. nauk, retsenzent; RYKOV, N.A., otv. red.; GARBER, T.N., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Crushing, milling, and screening of minerals] Drobleniе, izmel'chenie i grokhochenie poleznykh iskopaemykh. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 384 p. (MIRA 15:3)

(Ore dressing)

PEROV, V A

25(6); 14(5) PHASE I BOOK EXPLOITATION SOV/2778

Andreyev, Sergey Yefimovich, Vyacheslav Vladimirovich Tovarov, and Valentin Aleksandrovich Perov

Zakonomernosti izmel'cheniya i ischisleniye kharakteristik granulometricheskogo sostava (Regularity Patterns in Grinding and Calculation of Characteristics of Granulometric Composition) Moscow, Metallurgizdat, 1959. 437 p. Errata slip inserted. 3,400 copies printed.

Ed.: V.A. Rundkvist; Ed. of Publishing House: M.L. Yezdokova; Tech. Ed.: L.V. Dobuzhinskaya.

PURPOSE: This book is intended for engineering and technical personnel in ore-dressing plants, cement plants, research laboratories, design bureaus, and institutions of higher education.

COVERAGE: The author discusses frequently observed patterns in the granular composition of finely ground brittle products. A new method for calculating the average grain diameter, dependent on specific properties, is presented. Results of theoretical and experimental studies of 1) the kinetics of content

Card 1/10

change in coarse grains, and 2) changes in grain surfaces during the process of mill grinding are described. The changes in grain surfaces depend on the characteristics of the material ground, the specific consumption of energy, and other factors. Determination of the grindability of materials, mill performance, and the evaluation of mill productivity are also discussed. No personalities are mentioned. References follow each part.

TABLE OF CONTENTS:

Regularity Patterns (Cont.)

Regularity Patterns (Cont.)

Regularity Patterns (Cont.) SOV/2778

Card 9/10

ZHUDE, E.K., gornyy [illegible]. [illegible] kand. tekhn. nauk

Crushing during [illegible] operating conditions of a ball mill. [illegible]
Gor. zhur. [illegible]

1. Leningradskiy [illegible]

PEROV, V.A.

Calculating the efficiency of screens. Obog. rud 4 no.2:9-12 '59. (MIRA 14:8)

(Screens (Mining))

MUZYLEV, Lev Tikhonovich, kand.tekhn.nauk; ISSINSKIY, Viktor Vladimirovich; PETROV, Valentin Alekseyevich; KOPELEVICH, Ye.I., red.; MEDVEDEV, L.Ya., tekhn.red.

[Wool comber with periodic action; working principle, servicing, assembling, and adjustment] Grebnechesal'naia mashina periodicheskogo deistviia dlia shersti; ustroistvo, obsluzhivanie, montazh i naladka. Pod obshchei red. L.T.Muzyleva. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 178 p. (MIRA 13:5)

(Combing machines)

ZMIGRODSKIY, B.N.; PEROV, V.A., dotsent

Reorganizing and expanding ore-dressing plants at the Apatity Combine. Trudy Mekhanobr no.102:238-253 '57. (MIRA 11:9)
(Apatity--Ore dressing)

ANDREYEV, Sergey Yefimovich; TOVAROV, Vyacheslav Vladimirovich; PEROV, Valentin Aleksandrovich; HUNDKVIST, V.A., red.; YEZDOKOVA, M.L., red.izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Regularities of comminution and estimation of granulometric composition characteristics] Zakonomernosti izmel'cheniia i ischislenie kharakteristik granulometricheskogo sostava. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 437 p. (MIRA 12:8)
(Crushing machinery) (Particle size determination)

PEROV, V. A.

Author: Perov, V. A.

Title: Crushing of ores. (Izmel'chenie rud.) 220 p.

City: Leningrad
Publisher:
Publication: State Sci-Tech Pub. of the Pig Iron and Ferrous Metallurgy

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 4, No. 3, June, 1951

PA 26742

USSR/Metals
Ore Dressing
Iron Ores

Oct 1947

"Dressing Iron Ore with Heavy Suspensions," V. A. Perov, 4½ pp

"Gornyy Zhurnal" No 10

Discussion of the dressing processes used by the Carrison Plant in Minnesota and the Merrit Plant near Crosby, Minnesota. Tables of operation and schematic diagram of the plant layout. In the USSR this method could be adapted for dressing iron and manganese ores where jigging would permit continuous operation. The adoption of this method, according to the author, could improve the quality and quantity of dressed ores in the USSR.

PEROV, V. A.

PADEYEV, Vasiliy Ivanovich; PEROV, V.A., nauchnyy red.; SALITA, Ye.G., red.; NIKOL'SKIY, D.A., retsenzent; FRUMKIN, P.S., tekhn.red.

[Modern equipment for the crushing and comminution of ores] Sovremennoe oborudovanie dlia drobleniia i izmel'cheniia rud. Leningrad, 1959. 241 p. (Leningrad. Nauchno-issledovatel'skii i proektnyi institut mekhanicheskoi obrabotki poleznykh iskopaemykh. Trudy, no.123). (MIRA 13:7)
(Crushing machinery) (Ore dressing—Equipment and supplies)

[illegible], V. A.

Ore dressing. Leningrad, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1950. 220 p. (51-27947)

SOV/137-58-8-16269

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 5 (USSR)

AUTHOR: Zmicherovskiy, E.N., Perov, V.A.

TITLE: Reconstruction and Expansion of the Concentration Plants of the Apatite Kombinat (Rekonstruktsiya i rasshireniye obogatitel'nykh fabrik kombinata Apatit)

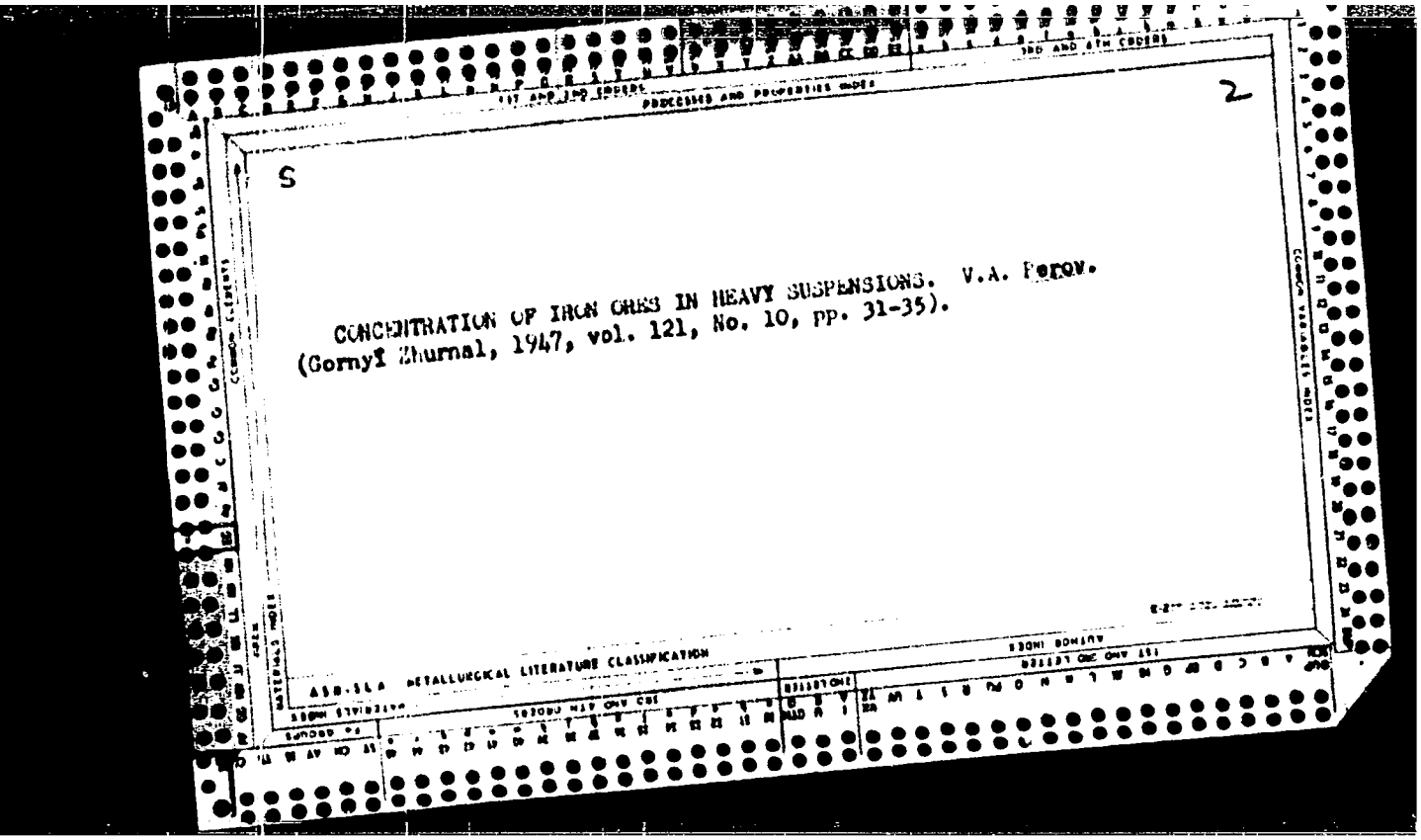
PERIODICAL: [Tr.] Vses. n.-i. i proyektn. in-ta mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 102, pp 238-253

ABSTRACT: Flowsheets for the First and Second apatite-and-nepheline plants of the Apatite Kombinat are described and presented.

A.Sh.

1. Industrial plants--USSR 2. Apatite--Production 3. Nephelite --Production

Card 1/1



S

2

CONCENTRATION OF IRON ORES IN HEAVY SUSPENSIONS. V.A. Perov.
(Gornyi Zhurnal, 1947, vol. 121, No. 10, pp. 31-35).

PEROV, V.A.; VASIL'YEVA, A.A.

Kinetics of milling two-component mixtures in a ball mill. Gor. zhur. no.7:69-70 Jl '61. (MIRA 15:2)

1. Leningradskiy gornyy institut.
(Ore dressing)

PEROV, V.A., prof.; [illegible]

Grinding in ball mills with noncataracting working conditions.
Rev min 16 no.1:9-12 Ja '65.

1. Mining Institute, Leningrad [illegible]erov).

PEROV, V.F.

Origin of canyons in the Khibiny Mountains. Trudy Khib.geog. sta.MGU no.1:119-130 '60. (MIRA 15:5)
(Khibiny Mountains--Canyons)

PEROV, V.F.

First glacier in the Khibiny Mountains. Priroda 47 no. 7:88 Jl '58. (MIRA 11:8)

1. Khibinskaya geograficheskaya stantsiya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(Khibiny Mountains--Glaciers)

PEROV, V.F.

Classification of snow banks in mountainous countries. Inform. sbor.o rab.Geog.fak.Mosk.gos.un.po Mezhdunar.geofiz.godu no.[illegible] (MIRA 13:5)
'58. (Snow)

14-57-6-11835

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 27 (USSR)

AUTHOR: Perov, V. F.

TITLE: Asymmetrical Erosional Forms (Ob asimmetrii erozionykh form)

PERIODICAL: Uch. zap. Mosk. un-ta, 1956, Vol 182, pp 143-152

ABSTRACT: The author points out that existing theories on the origin of asymmetry (A) in erosional forms fall into two categories: those which attribute it to general planetary conditions or processes, and those which attribute it to local conditions. The present analysis of the causes of A is based on observations made by the author on the right bank of the Volga River near Stalingrad and Saratov. Assuming a level plain and disregarding the influence of local morphological factors, A of erosional forms is apparently related

Card 1/3

PERCV, V.P.; TABUNINA, M.A., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Pamphlet on safety techniques for gas welders] Pamiatka po tekhnike bezopasnosti dlia gazosvarshchika. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 31 p. (MIRA 14:6)
(Gas welding and cutting--Safety measures)

PEROV, V.F.

3(5,4) PHASE I BOOK EXPLOITATION SOV/2355

Moscow. Universitet. Geograficheskiy fakul'tet.

Informatsionnyy sbornik o rabotakh Geograficheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta po Mezhdunarodnomu geofizicheskomu godu, No 1 (Collection of Information on Work Done by the Geography Department of Moscow University for the International Geophysical Year, Nr 1) Moscow, 1958. 298 p. Errata slip inserted, 800 copies printed.

Resp. Ed.: G. K. Tushinskiy, Professor

PURPOSE: This book is intended for earth scientists, particularly those interested in glacial phenomena.

COVERAGE: This book describes the activities of the Geography Department of Moscow State University in connection with International Geophysical Year. The work is divided into 4 parts, each dealing with a specific regional expedition. These are: the Mount Elbrus Expedition, the Khibiny Expedition, the Pamir Expedition, and the Antarctic Expedition. Additional articles discuss problems in glaciology and research techniques. References accompany each article.

TABLE OF CONTENTS:

THE I.G.Y. ELBRUS EXPEDITION

3(5,4)

PHASE I BOOK EXPLOITATION SOV/2355

Moscow. Universitet. Geograficheskiy fakul'tet.

Informatsionnyy sbornik o rabotakh Geograficheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta po Mezhdunarodnomu geofizicheskomu godu, No 1 (Collection of Information on Work Done by the Geography Department of Moscow University for the International Geophysical Year, Nr 1) Moscow, 1958. 298 p. Errata slip inserted, 800 copies printed.

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Table of Contents

THE I.G.Y. ELBRUS EXPEDITION

REPORTS

AVAILABLE: Library of Congress

26-58-7-19/48

AUTHOR: Perov, V.F.

TITLE: The First Glacier in Khibiny (Pervyy lednik v Khibinakh)

PERIODICAL: Priroda, 1958, Nr 7, p 88 (USSR)

ABSTRACT: During field investigations for purposes of the IGY a small firn glacier was discovered in the Khibiny Mountains. It is situated in the northern part of the Lyavochorr Massif on the elevations of a short trough-like valley of the first right-hand affluent of the Kaliok river. The extended body of the glacier resembles the shape of an amphitheater. Its total extent is 300 x 80 m or 0.02 sq km. Its upper edge is 1,073.2 m high with an altitude mark of 1,172 m of the massif. The glacier's position and shape indicate that it belongs to the type of the blown-together, immobile firn glacier. It faces almost directly north, the azimuth of its axis equals 350°. Its surface slopes 34 to 36°. The discovery of this glacier is not accidental. The occurrence of drift snow and avalanches suggested the possibility of embryonic glaciers in these mountains. This opinion was held for a long time by I.K. Tikhomirov and Professor G.K. Tushinskiy.

There is 1 photo.

Card 1/2

The First Glacier in Khibiny

26-58-7-19/48

ASSOCIATION: Khibinskaya geograficheskaya stantsiya Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova (The Khibiny Geographical Station of the Moscow State University imeni M.V. Lomonosov)

1. Glaciers--Characteristics 2. Glaciers--Origin

Card 2/2

PEROV, V.I., kand.tekhn.nauk.

Synchronous motor with excitation by permanent magnets and hysteresis starting. Vest. elektroprom. 32 no.3:32-38 Mr '61. (MIRA 15:6)

(Electric motors, Synchronous)

ACC NR: AT7004929 SOURCE CODE: UR/0000/66/000/000/0096/0100

AUTHOR: Zholkover, T. D. (Moscow); Perov, V. I. (Moscow); Tarasova, L. S.

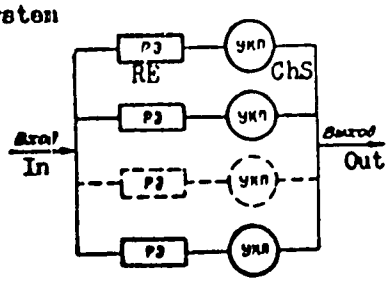
ORG: none

TITLE: Effect of automatic monitoring and switchover devices on reliability of systems with redundancy

SOURCE: Vses. konf. po avtomatich. kontrol i metodam elektrich. izmereniy, 6th, 1964. Avtomatich. kontrol' i metody elektrich. izmereniy; tr. konf., t. I: Teoriya izmerit. info. sistem (Automatic control and electrical measuring techniques; transactions of the conference, v. 1: Theory of measuring information systems). Novosibirsk, Izd-vo Nauka, 1966, 96-100

TOPIC TAGS: reliability, redundancy, automatic control system

ABSTRACT: Systems with active parallel redundancy in which reserve elements RE (see figure) are controlled by check-and-switchover ChS units is considered. Reliability of one branch under m-th load conditions is given by: $P_m = P_m^* P_{mk}$, where P_m^* - reliability of RE under m-th conditions; P_{mk} - reliability of ChS under m-th conditions. A set of differential equations describes the



Card 1/2

ACC NR: AT7004929

reliability conditions in terms of failure rates and r_m (probability that a branch failure is accompanied by elimination or self-elimination of RE). As a result, the probability of successful operation of the entire system is determined. These particular cases are considered: (1) Failure rates are constant in time (exponential law of distribution of reliable-operation time); (2) A definite ratio of failure rates of RE and ChS; (3) Reliability characteristics of RE and ChS do not change when the number of branches changes; starting from a certain value of the redundancy rate, the probability of successful operation decreases. When the probability of RE self-elimination is sufficiently high, ChS devices are superfluous. Orig. art. has: 1 figure and 30 formulas.

SUB CODE: 09, 14 / SUBM DATE: none / ORIG REF: 004

Card 2/2

L 32613-66 EWT(d)/EWT(l)/EWP(v)/EWP(k)/EWP(h)/EWP(l) TG/GD/BC

ACC NR: AT6011929 SOURCE CODE: UR/0000/66/000/000/0078/0084

52
B+1

AUTHOR: Perov, V. I. (Lyubertsy); Zholkover, T. D. (Lyubertsy)

ORG: none

TITLE: Methods for evaluating and some ways for increasing the reliability of the results of automatic control

SOURCE: Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy, 5th. Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Izmeritel'nyye informatsionnyye sistemy. Ustroystva avtomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Information measurement systems. Automatic control devices. Electrical measurements of nonelectrical quantities). Novosibirsk, Izd-vo Nauka, 1966, 78-84

TOPIC TAGS: reliability engineering, automatic control, system reliability

ABSTRACT: Reliability is the decisive factor in automatic control since the information gathered during the control of technological devices must reflect accurately their actual state. The quantitative measure of reliability is expressed by the probability that the result is correct. Of all the possible factors affecting the reliability of automatic control, the authors investigate only the loss of information caused by the quality of the control devices.

Card 1/2

L 32613-66

ACC NR: AT6011929

It is assumed that the initial information on the controlled plant is complete. The newly developed formalism is applied to the control of the operational readiness of devices. Orig. art. has: 26 formulas, 1 figure, and 5 tables.

SUB CODE: 09, 14 / SUBM DATE: 29Nov65 / ORIG REF: 003 / OTH REF: 002

Card 2/2

PEROV, V.I., kand.tekhn.nauk

Characteristics of synchronous motor with electromagnetic excitation and hysteresis start-up. Vest. elektroprom. 31 no.10:5-7 O '60. (MIRA 15:1)

(Electric motors, Synchronous)

PEROV, V.L.; BAKHTIZINA, R.I.; ISHCHENKO, I.I.

News review. Khim. prom. 40 no.9:711 S '64. (MIRA 17:11)

KAFAROV, V. V.; PLYUTTO, V. P.; PEROV, V. L.

Development of mathematical descriptions of the standard processes in chemical technology. Khim prom no. 3:218-221 Mr '64. (MIRA 17:5)

PEROV, V.M.; BRODKIN, B.S.

Rescue of Belgian polar explorers. Inform. biul. Sov. antark. eskp. no.5:61-62 '59. (MIRA 12:10)

(Antarctic regions)

PEROV, V.N.

Experience in replacing metal by cast stone and concrete. Koks i khim. no.9:52-54 '60. (MIRA 13:9)

1. Chumakovskaya TSentral'naya obogatitel'naya fabrika.
(Coal preparation)
(Coke industry --Equipment and supplies)

PEROV, V. N

USSR /Chemical Technology. Chemical Products and Their Application I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31816

Author : Shlomov V.N., Voronov K.D., Perov V.N.

Title : Initiation of Closed-Cycle Handling of Water and Sludge.

Orig Pub: Koks i khimiya, 1956, No 4, 19-22

Abstract: The change-over, at the Chumakovskaya central coal concentration plant, to a closed cycle, by returning the water contaminated with sludge particles to the top of settling tanks, for additional clarification, has made it possible to eliminate recovery of fuel-coal sludge, which previously amounted to 4.5%, to increase the

Card 1/2

PEROV, V. P.

103-12-2/12

AUTHOR: Perov, V. P. (Leningrad)

TITLE: Note on the Synthesis of Pulse Circuits and of Systems with a Pulse Feedback (Sintez impul'snykh tsepey i sistem s impul'snoy obratnoy svyaz'yu).

PERIODICAL: Avtomatika i Telemekhanika, 1957, Vol. 18, Nr 12, pp. 1081-1097 (USSR)

ABSTRACT: Just as in the case of continuous linear systems the optimum transmission function or weight function respectively must be determined at the synthesis of a pulse system. The characteristics of pulse systems in general display such an abstract form, that in the majority of cases no immediate possibility exists for the build-up of actual schemes. Therefore, a transformation from the mathematical expression characterizing the pulse system as a whole to the expression of the transmittance function of the continuous part of the system must be applied if an actual scheme is to be built up. This expression then permits the determination the scheme of the structure and the actual parameters of the system. In this paper a number of results obtained from investigations in this direction are given. The optimum characteristics of

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Card 2/2

28(2); 16(2) PHASE I BOOK EXPLOITATION SOV/2097

Perov, V. P.

Statisticheskiy sintez impul'snykh sistem (Statistical Synthesis of Sampled Data Control Systems) Moscow, Izd-vo "Sovetskoye radio," 1959. 453 p. Number of copies printed not given.

Ed.: N. D. Ivanushko; Tech. Ed.: A. A. Sveshnikov.

PURPOSE: This book is intended for engineers, scientists, and graduate students specializing in appropriate fields.

COVERAGE: The book presents methods worked out by the author which make it possible to determine the block diagrams of sampled data systems and the specific values of their parameters which will guarantee the greatest operational accuracy of these systems for time-constrained transient processes in the presence of noise. Essentially the problems presented in the book pertain to the selection of methods for optimum reconstruction and linear transformation of continuous functions on the basis of the discrete data distorted by noise. The problem of synthesizing continuous linear systems is also discussed. The material contained in the book may be used in the design and analysis of linear sampled data systems, and

Card 1/10

partially for continuous systems. Most of the results in the book are original. The author thanks Professor Ye. P. Popov and Docent E. A. Krogius for their help in preparing the book. There are 54 references: 46 Soviet and 8 English.

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Statistical Synthesis of Sampled Data (Cont.) SOV/2097

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Statistical Synthesis of Sampled Data (Cont.) SOV/2097

Card 8/10

AVAILABLE: Library of Congress

Card 10/10

LK/mg
10-29-59

PEROV, V P

SOV/30-59-1-48/57

28(1)

AUTHOR: Morosanov, I. S.

TITLE: Development of the Theory and the Application of Discreet Automatic Systems (Razvitiye teorii i primeneniy diskretnykh avtomaticheskikh sistem)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 1, pp 138-139 (USSR)

ABSTRACT: The conference dealing with this problem took place in Moscow from September 22 to 26, 1958 and was opened by V. A. Trapeznikov, chairman of the Natsional'nyy komitet SSSR po avtomaticheskomu upravleniyu (National Committee of the USSR for Automatic Control). In the Plenary Meeting Ya. Z. Tsypkin reported on discreet automatic systems and their development prospects. The work of the conference was undertaken by 5 sections. Reports were held by: I. G. P. Tartakovskiy and V. P. Perov reported on new investigation results in the case of pulse systems with variable parameters.
Fan Ch'ung-wui dealt in his report with his successful procedures of analysis of pulse systems with several elements. F. M. Kilin spoke about the problem of an increase of the perturbation stability of the systems.

Card 1/3

PETROV, V.P.

Synthesis of pulse systems by means of the minimum summation error reproduction. Avtom. upr. i vych. tekh. no.2:5-49 '59. (MIRA 13:2)

(Pulse techniques (Electronics))

PHASE I BOOK EXPLOITATION SOV/5793

Perov, Vitaliy Pavlovich

Raschet radiolokatsionnykh sledyashchikh sistem s uchetom sluchaynykh vozdeystviy (Designing Radar Tracking Systems, Taking Into Account Random Effects) Leningrad, Sudpromgiz, 1961. 167 p. Errata slip inserted. 8700 copies printed.

Scientific Ed.: I. F. Rudnitskiy; Reviewer: G. K. Yakhontov, Candidate of Technical Sciences; Ed.: R. D. Nikitina; Tech. Ed.: R. K. Tsal.

PURPOSE: This book may be useful to engineers and scientists engaged in designing radar tracking systems and investigating their potentialities.

COVERAGE: The author describes methods of calculating the effect of various types of disturbances on the accuracy and operating range of tracking-system radars with linear scanning of the antenna beam and, in particular, with circular scanning. Simple methods

Card 1/8

PEROV, V. P.

report to be presented at the 1st Intl Congress of the Intl Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

LERNER, A. Ya., - "The application of a self-adjusting system of
automatic control"
MALOV, V. S., PEREVOZCHIKOV, A. M., and [illegible] A. - "Industrial
telemeasurement systems and digital technique"
MEYEROV, M. V. - "Some peculiarities of the structure of multi-
communications regulation systems"
MIKHAYLOVSKIY, V. N. - "Evaluation indexes and the possibility of
increasing the quality of telemeasurement systems"
[illegible], V. V. - "Concerning the problem of established routines in
automatic regulation systems"
[illegible], E. A. "Principals of construction of digital double code
automatic compensa..."
NEYMARK, Yu. I. - "Concerning the relation of systems of automatic
regulation with the parameters of periodic movements"
NIKOLAYEV, E. S., and EPSHTEYN, V. L. - "System of automatic control
of cutting of rolled metal on a continuous bar mill with the use
of digital calculating machines"
ONDYREYEV, V. M. - "Some principles of organizing systems of complex
automation of large scale chemical production and optimization of these
systems"
OSTROVSKIY, G. M. - "Systems of automatic regulation with intermittent
change of parameters"
PEROV, V. P. - "Statistical synthesis of impulse systems"
PETROV, B. N. - "The invariant principle and its application in the
calculation of linear and nonlinear systems"
PIVEN, V. D. - "The problem of autonomy in the technique of automatic
control"
POPOV, E. P. - "Some problems of synthesis of automatic control non-
linear systems"
PUGACHEV, V. S. - "Method of determining the optimum system with non-
linear relation of the observed function with the parameters of the
signal"
PUSHKIN, V. P., PETROV, V. V., KONDINOV, R. V., and VOLODIN, E. E. -
"Principles of construction of a single class of extra control
systems for automating production processes"
ROGINSKIY, V. N. - "The development of the theory of relay devices
in the USSR"
ROZENBLAT, M.A. - "Dynamic characteristics of cores with right angle
hysteresis winding and their influence on magnetic boosters"
ROZONOER, L.I. - "Varied methods of investigating the quality of
automatic control systems"
[illegible] V. M. - "Dynamics of automatic regulation of boiler-turbine
units"
SHUMILOVSKIY, N. N., MEL'TTSER, L. V., SAIMOV, A. A., MEN-CHZHI-CHZHUN,
and PIVOVAROV, L. A. - "Automatic control of composition of multi-
ingredient mixtures"
SHADOVSKIY, E. S., and SHCHALIN, V. G. - "Some results of work for the
utilization of radioactive radiation for automatic control of mining
machinery"
SOLODOVNIKOV, V. V., BATKOV, A. M., BABURIN, V. M., VAYNSHTEYN, Yu. S.,
MATVEYEV, P. S., and POKROVSKIY, A. K. - "Analyses and synthesis
of automatic control systems with the aid of calculating machine
facilities"
STAKHOVSKIY, R. I., FITSNER, L. N., [illegible] - "Automatic
optimizers and their use for solution of variation problems in
automatic synthesis"
STRAKHOV, S. V. - "A system of alternating current electric drives with
autonomous power supply"
TAKHAR, I. M., and YANKSHEVSKIY, V. A. - "Apparatus for technical control
of production with the use of nuclear radiation"
TEODORCHIK, K. F., and BENDRIKOV, G. A. - "Methods of organizing the
trajectory of roots of linear systems and qualitative determination
of type of trajectory"
TSYPKIN, Ya. Z. - "Elements of the theory of digital automatic systems"
VENCHKOVSKIY, D. B., YASENKOV, V. A., CHUGIN, Yu. I., and SHASTOVA, G. A. -
"Static stability of telemeasurement"
VENIKOV, V. A. - "Interactions of a mathematical modeling and calculating
technology experiment in calculating leads in electrical systems"

KUZIN, Lev Timofeyevich; PEROV, V.P., doktor tekhn. nauk, retsenzent; KARABANOV, V.A., kand. tekhn. nauk, red.; UVAROVA, A.F., tekhn. red.

[Design and planning of discrete control systems] Raschet i proektirovanie diskretnykh sistem upravleniia. Moskva, Mashgiz, 1962. 682 p. (MIRA 15:6)

(Automatic control)

KRUT'KO, Petr Dmitriyevich; TSYPKIN, Ya.Z., retsenzent; PEROV, V.P., retsenzent; BAVAROV, S.F., retsenzent; IVANUSHKO, M.D., red.; BELYAYEVA, V.V., tekhn. red.

[Statistical dynamics of pulse systems] Statisticheskaia dinamika impul'snykh sistem. Moskva, "Sovetskoe radio," 1963. 558 p. (MIRA 17:1)

PEROV, V.P. (Leningrad)

Optimum distribution of energy in light of signal detection in noise with simultaneous measurement of their parameters. Izv. AN SSSR. Tekh. kib. no.5:62-73 S-O '63. (MIRA 16:12)

S/024/62/000/006/007/020
E140/E135

AUTHOR: Perov, V.P. (Leningrad)

TITLE: Optimal energy distribution in multiple scanning of a given region

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika, no.6, 1962, 82-95

TEXT: The article concerns the optimal distribution of energy in various directions of a radar scan, given differing probabilities of target presence in each direction. Two statements of the problem are given: a direct problem, namely, to distribute a fixed available energy supply over the entire region in such a way as to reduce the integral loss to a minimum; and an inverse problem - to obtain the minimum energy necessary to satisfy a preassigned value of the integral loss. The author first finds the necessary conditions for an optimal energy distribution function, and then gives a method for finding the optimal function. Cases will be rare in which a simple analytical solution here given will be feasible, and in general the problem will have to be solved by

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Optimal energy distribution in ... S/024/62/000/006/007/020
E140/E135

graphical or iterative methods (successive approximations). Various cases of coordinate measurement and radiolocation problems are considered. A numerical example is worked showing that a certain optimal distribution is 15 times more efficient than the original uniform distribution.
There are 4 figures.

SUBMITTED: December 22, 1961

Card 2/2

50 c

L 41182-65 EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(l) Pf-4
ACCESSION NR: AP5004677 S/0115/64/000/009/0058/0059

70
18
B

AUTHOR: none

TITLE: Fourth scientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods"

SOURCE: Izmeritel'naya tekhnika, no. 9, 1964, 58-59

TOPIC TAGS: cybernetics, electric measurement, electric quantity instrument, digital computer, electronic equipment, electric engineering conference

ABSTRACT: The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Electrical Measurements of the Council on the Problem of "Scientific Instrument Making" of the State Committee on Coordination of Scientific Research Work in the USSR together with the All-Union Scientific Research Institute of Electrical Measurement Instruments and the Leningrad Regional Administration of the Scientific and Technical Division of the Instrument Making Industry. More than 400 delegates from 29 cities of the country participated. Fifty-seven reports were heard and discussed. Reports were given by: P. V. NOVITSKIY (Leningrad)--"Definition of the Concept of Informational Error in Measurement and its Importance in Practical Use" and "On the Problem of the Average Informational Criterion of Accuracy Throughout the Entire Scale of an Instrument"; Ya. A.

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KUPERSHMIDT (Moscow)--"On Determination of the Criteria of Accuracy for Measurement Devices"; S. M. MANDEL'SHTAM (Leningrad)--report on a new criterion of accuracy of measurement instruments; P. F. PARSHIN (Leningrad)--report on optimization when using Fourier transforms on electronic digital computers; S. P. DMITRIYEV, O. Ya. DOLGINTSEVA and A. A. IGNATOV (Leningrad)--proposal of a new method for solving problems of optimum filtering for non-stationary random signals and interference; I. B. CHELPANOV--"Calculation of the Dynamic Characteristics of an Optimum Complex Two-Channel System which Uses Signals from a Position Meter and from a Speed Meter"; R. A. POLUEKTOV (Leningrad)--"Optimum Periodic Correction in the Measurement of Continuous Signals"; S. P. ADAMOVICH (Moscow)--"Analysis and Construction of Devices for Correction of Non-linearity and Scaling for Unitary Codes; O. V. GORELOVA (Taganrog)--"A Method for Statistical Optimization in Graduating the Scales of Electrical Measuring Instruments"; M. A. ZEMEL'MAN (Moscow)--"Analog-Digital Voltage Convorter with Automatic Error Correction"; B. N. MALINOVSKIY, V. S. KALENCHUK and I. A. YANOVICH (Kiev)--"Automatic Monitoring of the Parameters of the Electrical Signals of Complex Radio and Electronic Equipment"; V. P. PEROV (Moscow)--"Operational Cybernetics as an Independent Scientific Specialization"; Ye. N. GIL'BO (Leningrad)--"On the Problem of Effective Non-linear Scales"; A. I. MARKELOV (Moscow)--"Devices for Preliminary Processing of the Results of Measurements Presented in the Form of

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Graphic Recording For Subsequent Introduction of the Information into Universal Digital Computers"; O. M. MOGILEVER and S. S. SOKOLOV (Leningrad)--"On a Method for Reducing Excess Information"; T. V. NIKOLAYEVA (Leningrad)--"A Device for Temporal Discretization of Continuous Signals"; A. A. LYOVIN and M. L. BULIS (Moscow)--"Optimization of the Transmission of Telemetric Information as a Means for Raising the Efficiency and Eliminating Interference"; D. E. GUKOVSKIY (Moscow)--"On a Statistic Approach to the Detection of Events in Automatic Inspection"; M. I. LANIN (Leningrad)--"Method for Calculating the Holding Time of Communications in a Centralized Inspection System or Constant Servicing Time"; O. N. BRONSHTEYN, A. L. RAYKIN and V. V. RYKOV (Moscow)--"On a Single-Line Mass Service System with Losses"; Y. M. SHLYANDIN (Penza)--report on circuit designs for direct compensation electrical digital measuring instruments; A. N. KOMOV (Novocherkassk)--report on a new method for compensation of digital bridges; M. N. GLAZOV (Leningrad)--report on the problem of voltage-to-angular rotation conversion; V. S. GUTNIKOV (Leningrad)--"Methods for Construction of Frequency Capacitance Pickups with a Linear Scale"; R. Ya. SHROPYATOVA and R. R. KHARCHENKO (Moscow)--report on the determination of the amplitude-frequency and phase characteristics of PFM and PWM modulators; Ye. I. TENYAKOV (Novocherkassk)--"The Phototransistor as a Switch for Electrical Measurement Purposes"; N. V. MALYGINA (Leningrad)--a report on ways for making universal equipment for measurement of current, voltage and power; P. P. ORNATSKIY and V. I. RUZULYA (Kiev)--reports on the construction of static voltmeters, wattmeters and

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