

PROTASOV, L.P.

Overall mechanization and automation of the transshipment
of general cargo. Trudy TSNIIEVT no.37:86-135 '65.
(MIRA 18:12)

FRUTKOV, I. N. Cand Tech Sci

Dissertation: "Investigation of the Effect
of Pipes Arrangement on Hydraulic Resistance
and Flow Structure During Motion of Gas-Liquid
Mixture through the Pipes."

16/2/50

Power Engineering Inst imeni G. N. Krzhizhanovskiy
Acad Sci USSR

**SO Vecheryaya Moskva
Sum 71**

PROTASOV, M. T.

M. S. NEMIROVICH-DANCHENKO, Lesokhim. Prom. 1, No. 1-2, 9-15, 1932

PROTASOV, N., polkovnik

School for perfection in methods; from the pages of the newspapers
"Leninskoe znamia" of the Transcaucasian military district. Voen.
vest. 39 no.6:92-94 Je '59. (MIRA 12:9)
(Military education)

PROTASOV, N., Col.

PROTASOV, N.-

Author of article criticizing the newspaper of a large unit for not properly reporting the activities of local party organizations.
(Krasnaya Zvezda, 12 Dec 53)

SO: SUM 152, 25 June 1954

Listed as author of author of article, "From Experiences of the Work of Officers in Studying I. V. Stalin's Economic Problems of Socialism in the USSR' (From the Pages of Military Newspapers)," published in Voyenny Vestnik, No 5, 1953. (VV, No 17, Dec 1953)

SO: SUM 152, 25 June 1954

BOLOTOV, I.N.; LITVINOV, N.I., aspirant; APENNIKOV, S.A., aspirant;
LUKASHOV, A.I.; PROTASOV, N., aspirant; GOLOVANYUK, V.I.,
aspirant; GUBAYDULLIN, Kh.

Combine cultivation practices with the use of herbicides. Zemledelie
27 no.6:53-59 Je '65. (MIRA 18:9)

1. Luganskiy sel'skokhozyaystvennyy institut (for Bolotov,
Litvinov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut
kormov (for Apennikov). 3. Donskaya opytnaya stantsiya
Vsesovuznogo nauchno-issledovatel'skogo instituta maslichnykh
i efiromaslichnykh kul'tur (for Lukashov) 4. Belorusskaya sel'skokho-
zyaystvennaya akademiya (for Protasov). 5. Bashkirskiy nauchno-issle-
dovatel'skiy institut sel'skogo khozyaystva (for Gubaydullin).

PROTASOV, N.A.

Results of applying an index of increase of labor productivity.
Vest.sviazi 16 no.7:29 J1 '56. (MLRA 9:9)
(Irkutsk Province--Radio stations)

137-1957-12-23637

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 113 (USSR)

AUTHORS: Protasov, N. F., Khlebnikov, V. P.

TITLE: Results of Experimental Rolling of Nr 36 and 55 Beams of the
Light-weight Type (Opyt osvoyeniya prokatki balok Nr 36 i 55
oblegchennogo tipa)

PERIODICAL: V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profizdat,
1956, pp 156-159

ABSTRACT: The experience from employing a universal stand for rolling
(R) a Nr 40-K beam (B) was taken into consideration when the
rolling of a thin-walled B Nr 36 was planned. The universal
stand could not be employed because the non-uniform local re-
duction of the flanges produced by it impaired the quality of the
structural profile. The test results with the first calibration for
a light-weight Nr 36 B were not satisfactory because the small
incline of the inner flange surface caused the open flange calibers
to wear out rapidly, and after the rolling of about 20 t the required
profile could no longer be obtained. Increasing the incline of the
inner surface from 2 to 10 percent, as well as changing the pro-
file dimensions somewhat, produced satisfactory results, and

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137-1957-12-23637

Results of Experimental Rolling of Nr 36 and 55 Beams (cont.)

the durability of the rolls returned to normal. It is assumed, on the strength of the experimental rolling of the Nr 30 B with the employment of slanted grooves, that a light-weight Nr 36 B may be rolled through inclined grooves. Experimental rolling of a light-weight Nr 55 B had proved that it can be rolled in large quantities. During the rolling of a light-weight B the consumption of energy increased by 25-30 percent, along with increased consumption of metal. The amount of the light-weight B's which were rolled is not sufficient to justify a final conclusion regarding the practicability of mass-producing light-weight profiles. For the preceding report see RZhMet. 1956, Nr 10, 10148.

P. G.

1. Beams-Rolling-Test methods
2. Beams-Rolling-Test results

Card 2/2

STEFANOV, V.Ye.; PROTASOV, N.F.

Grooving channels by the method of gradual bending. Stal' 23
no.8:724-728 Ag '63. (MIRA 16:9)

(Rolling (Metalwork))

PROTASOV, N.F.; STEFANOV, V.Ye.; DEMCHENKO, V.P.; SHIYAN, V.A.;
KRISHTAFOVICH, P.D.

Rolling SVP-17 and 27 shapes with a greater incline of the walls.
Metallurg 8 no.9:31-34 S '63. (MIRA 16:10)

1. Zavod "Azovstal'."
(Rolling (Metalwork))

PROTASOV, N.F., inzh.; SHUVALOV, B.I., inzh.; FRADINA, M.G., inzh.;
CHERNOVA, A.V., inzh.; RAKHANSKIY, B.I., inzh.

Properties and peculiarities in the production of type R-75
heavy rails. Stal' 23 no.8:731-733 Ag '63. (MIRA 16:9)
(Railroads--Rails) (Rolling (Metalwork))

PROTASOV, N.F., inzh.; STEPANOV, V.Ye., inzh.; SHIYAN, V.A., inzh.

Using double radii of connection for webs and flanges in the rolling of lightweight girders. Stal' 25 no.8:834-836 S '65.

(MIRA 18:9)

1. Zavod "Azovstal'".

PROTASOV, N.F.; STEFANOV, V. Ye.; SHIYAN, V.A.; DEMCHENKO, V.P.;
KRISHTAFOVICH, P.D.

Rolling of a No. 16 c'annel by the gradual bending method.
Metallurg 9 no.1:27-29 Ja '64 (MIRA 18:1)

1. Zavod "Azovstal".

PROTASOV, N.F.; KHLEBNIKOV, V.P.; SIKORSKIY, A.I.; GONCHAR, V.V.; STEFANOV,
V.Ye.; BOLDYREV, L.I.

Improving the equipment of a cogging mill for large-size shapes.
Metallurg 3 no.10:25-29 0 '58. (MIRA 11:10)

1.Zavod "Azovstal'."
(Rolling mills--Equipment and supplies)

PROTASOV, N.F.; KHLEBNIKOV, V.P.; SIKORSKIY, A.I.; GONCHAR, V.V.; BOLDYREV, L.I.;
STEFANOV, V.Ye.

Developing shapes for mine supports. Metallurg 3 no.12:27-29 D '58.
(MIRA 11:12)

1.Zavod "Azovstal'."
(Rolling (Metalwork))

SOV/130-58-10-9/18

AUTHORS: Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I.,
Gonchar, V.V., Stefanov, V.Ye and Boldyrev, L.I.

TITLE: Improving Accessories on the Reducing Mill of a Heavy-
Section Mill (Uovershenstvovaniye armatury obzhimnogo
stana krupnosortnogo tsekha).

PERIODICAL: Metallurg, 1958, Nr.10, pp.25-29 (USSR)

ABSTRACT: It was found that when rolling low-number girders,
especially Nr.20 in the reducing stand of a rail-
structural mill the metal often displaced the guides,
leading to stoppages. The authors give details of guide
construction and attachment (Fig.1) and also of special
devices provided before each pass (Fig.2) to support
the beam from below. This is advantageous for rolling
large girders (Nr.30-55) but unreliable for smaller
(Nr.18-16) sizes. For rolling these latter when the
closed passes are in the bottom roll two variants of
guide arrangements have been proposed. In the first
special movable vertical supports are provided for the
guides, fixed on trapezoidal projections. In the

Card 1/2

SOV/130-58-10-9/18

Improving Accessories on the Reducing Mill of a Heavy-Section Mill.

second a trapezoidal-section bar is fixed to the housing (similar to the guide bars on the finishing line) (Fig.4) which supports one end of the specially shaped guide, the other being held in the pass with the aid of a load. The authors favour the second variant and mention its applicabilities. Its adoption has enabled the load on the finishing line to be reduced by 20-25%. The new roll-pass designs used since March 1957 have led to better roll life, higher productivity and other improvements. The new accessories are especially useful for thin-walled sections, and during the year for which they have been in use no cases of guide displacement have occurred. There are 4 figures.

ASSOCIATION: Zavod "Azovstal'" ("Azovstal'" works).

Card 2/2

PROTASOV N.F.

18
Automatic Metallization of Steel Rolls under a Ceramic Flux.
K. V. Bagrynskiy, L. E. Protasov, V. A. Tyuguz and Yu. J.
Shapiro. (Stal', 1960, (11), 991-997). [In Russian]. An
account is given of a method of renovating worn steel rolls
by electric-arc metallization under a layer of ceramic flux.
The method developed at the Azovstal' works is applicable
to any size of roll and is better than other Soviet methods.

PM
RL

SOV/130-58-12-12/21

AUTHORS: ~~Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I.,
Gonchar, V.V., Boldyrev, L.I. and Stefanov, V.Ye.~~

TITLE: Experience of the Adoption of Profiles for Mine Supports
(Opyt osvoyeniya profiley dlya **shakhtnogo** krepneniya)

PERIODICAL: Metallurg, 1958, Nr 12, pp 27 - 29 (USSR)

ABSTRACT: The "Azovstal'" works is one of the main suppliers of the more important sections for mine construction and operation. The authors illustrate (Fig 1) sections for props types 18A-18B and 28A-28B and show how the first two fit each other (Fig 2). These sections are rolled from 230 x 285 and 245 x 280 mm blooms in four stands arranged in two lines and the authors outline the pass design and deformations at the various stages. They deal with the production of inclined props to GOST-5157-53. The authors

Card 1/2

SOV/130-58-12-12/21

Experience of the Adoption of Profiles for Mine Supports

state that the pass designs for pit props developed at the works have improved quality as well as increasing production.

There are 4 figures

ASSOCIATION: "Azovstal'" works

Card 2/2

BEREZNYAK, M.M., kand. tekhn. nauk; VASIL'YEV, Ye.I., kand. tekhn. nauk;
KALININ, A.V., inzh.; PROTASOV, N.M., inzh.

Using ETsVM electronic digital computers in the selection of transportation for strip mines. Izv.vys.ucheb.zav.;gor.zhur. 7 no.6:83-87 '64.
(MIRA 17:12)

L. Kemerovskiy gornyy institut. Rekomendovana kafedroy otkrytykh gornykh robot.

PROTASOV, N.F.

BAGRYANSKIY, K.V., kandidat tekhnicheskikh nauk, dotsent; PROTASOV, N.F.
inzhener; TYAGUS, V.A., inzhener; SHAPIRO, Yu.A., inzhener.

Automatic building up of the surface of steel rolls with ceramic
flux. Stal' 16 no.11:994-997 N '56. (MLRA 10:1)

1. Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal'."
(Rolls (Iron mills)) (Electric welding)

PROTASOV, N.I., glavnyy prekatchik; KHLEBNIKOV, V.P., starshiy kalibrovshchik.

Mastering the production of lightweight I-beams. Metallurg no.4:18-21
Ap '56. (MLRA 9:9)

1.Zaved "Azevstal" (for Khlebnikov).
(Girders) (Rolling (Metalwork))

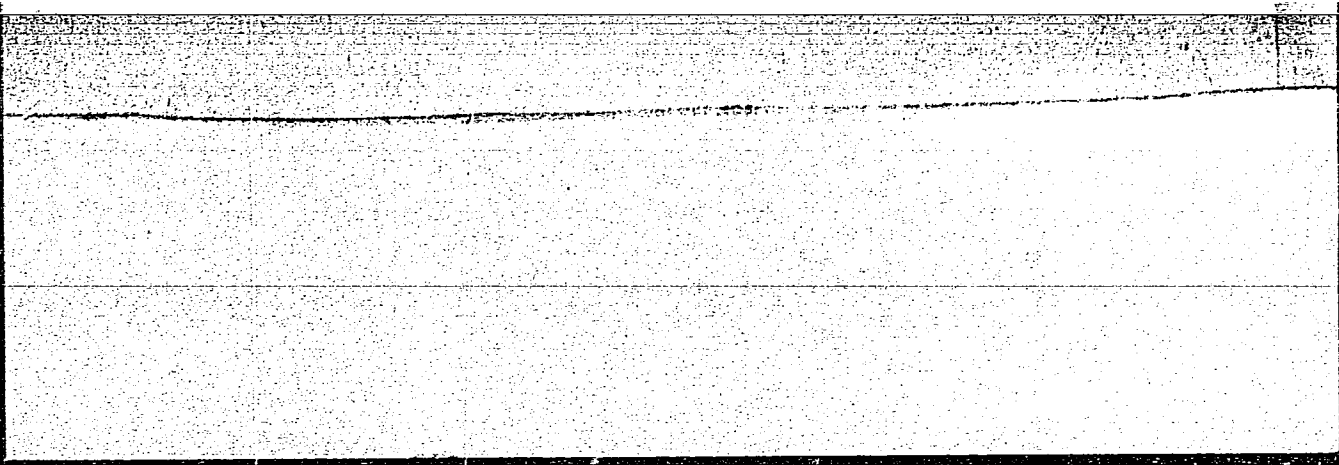
PROTASOV, N.M.

PROTASOV, N.M., polkovnik; KOZEV, A.I.; KURGAN, V.G., podpolkovnik, redaktor;
~~BYEBIS~~; N.V., tekhnicheskiy redaktor

[The newspaper is a powerful weapon for educating the soldier; collection of articles] Gazeta - moguchee oruzhie vospitaniia voinov; sbornik statei. Moskva, Voennoe izd-vo Ministerstva oborony SSSR, 1954. 142 p.
(Communist education) (MIRA 8:4)
(Journalism, Military) (Soldiers--Education, Nonmilitary)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320007-8



APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320007-8"

COUNTRY : USSR
CATEGORY :

M-7

ABS. JOUR. : RZBiol., No. 1/2, 1958, No. 87141

AUTHOR : Protasov, P.; Yarovenko, G.
INBT. :
TITLE : Use of Calcium Cyanamide as a Nitrogen
Fertilizer for Cotton.

ORIG. PUB. : Khlopkovodstvo, 1957, No 10, 23-26

ABSTRACT : On prolonged storage N_2 loses a part of N and becomes unsuited for defoliation of cotton (when the content of N is less than 16%). In this connection the Central Station of Fertilizers and Agricultural Soil Science of Union-NIKI has conducted in 1946-1957 experiments on utilization of low-N content N_2 as fertilizer for cotton. The experiments showed that effectiveness of N_2 as a fertilizer depends on the time of its application. Early preplanting application of N_2 at the time of autumn- or preplanting plowing eliminates its toxicity to plants and promotes conversion of N to readily assimilable form. Rate of application is 300-400 kg/ha. This amount of

CARD: 1/2

Country : USSR M-7
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87141

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : N_2 makes it possible to increase the yield
by at least 2-3 centners/hectare. In the Uzbek SSR alone,
30-50 thousand hectares can be fertilized by making use
of N_2 that is not suitable for defoliation.

A. M. Smirnov.

CARD: 2/2

S/123/60/000/020/009/019
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 20, p. 192
111035

AUTHOR: Protasov, P. K. 10

TITLE: The Technological Process of Casting of Permanent Magnets in Investment Patterns

PERIODICAL: V sb.: Peredovaya tekhnol. liteyn. proiz-va. Kiyev-Moscow, Mashgiz, 1958, pp. 35-38

TEXT: It is noted that the cost price of the finished products sharply decreases, if the permanent magnets are produced by casting in investment patterns, because these magnets need not be subjected to mechanical processing in contrast to the casting in sand molds. The technology of mold manufacturing, the compositions of the alloys magniko, al'ni, al'niko, and the smelting conditions of these alloys are presented. Magnets of the magniko alloy have the coercivity of the order of 480-550 oerst., the residual induction of the order of 5,200 - 5,800 gauss, occasionally also 6,500 gauss, without thermal treatment. After thermal

✓

Card 1/2

S/123/60/000/020/009/019
A005/A001

The Technological Process of Casting of Permanent Magnets in Investment Patterns

treatment, they have the coercivity of 500 - 700 oerst., the residual induction of 10,000 - 13,000 gauss. The thermal treatment conditions are: heating in the electric furnace up to 800°C and soaking at this temperature during 15 - 20 min, then fast transfer into a furnace having 1,300°C temperature and soaking during 10 - 12 min per each 10 mm of the magnet cross section. Thereupon, the magnets must be transferred most rapidly from the furnace into a magnetic field, the intensity of which must be not less than 1,000 oerst., where hardening is performed. The cooling of the magnets in the magnetic flux is performed down to 600°C, thereupon they are covered with dry sand, in which they are cooled down to room temperature. The tempering of the magnets is performed at 600°C during 2 hours. If the magnets do not satisfy the technical conditions after this thermal treatment, they are subjected to repeated hardening and tempering, but sometimes only to tempering. The additional treatment increases magnetic characteristics by 10 - 15%.

A. M. G.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

PRUTASOU, P. K.

85(1) **PLANE I BEEK ENWACHTEN** 007/1785

Handbook-technologie elektrische machinebouw by **proutasou, P. K.**
Eindhoven: **Technische Hogeschool**, 1974. 152 p. 20 copies printed.

Handbook technology electrical machine building. Eindhoven: **Technische Hogeschool**, 1974. 152 p. 20 copies printed.

Proutasou, P. K. (Ed.). **Handbook of electrical machine building**. Eindhoven: **Technische Hogeschool**, 1974. 152 p. 20 copies printed.

Proutasou, P. K. (Ed.). **Handbook of electrical machine building**. Eindhoven: **Technische Hogeschool**, 1974. 152 p. 20 copies printed.

Proutasou, P. K. (Ed.). **Handbook of electrical machine building**. Eindhoven: **Technische Hogeschool**, 1974. 152 p. 20 copies printed.

Proutasou, P. K. (Ed.). **Handbook of electrical machine building**. Eindhoven: **Technische Hogeschool**, 1974. 152 p. 20 copies printed.

INDEX OF SUBJECTS

Proutasou, P. K., Editor . Development of permanent magnets	35
Proutasou, P. K., Editor . Methods of metal casting	38
Proutasou, P. K., Editor . Chilling of thin-walled cast iron	40
Card 3/6	

PROCESSES AND PROPERTIES INDEX

15

CA

An investigation of the process of exchange adsorption and coagulation of soil colloids by the conductivity and potentiometric titration method. A. N. Kharin and F. N. Protasyov. *Foizology* (U. S. S. R.) 20, 160-69 (1933).—Suspensions of humus were prepared by extracting a spherosol with alkali and pptg. with HCl; the ppt. was dried and then acid. either with Na or Li, dissolved with alkali, dialyzed and a definite quantity then added either with Na or Li, dissolved with alkali, dialyzed and a definite quantity suspended in a l. of H₂O. For the mineral suspension the soil was treated with H₂O₂ to destroy the org. matter, then acid. with Na and Li and treated as the humus, except that the bicarbonates of Na or Li were used as the solvent. The suspensions were then titrated with HCl or BaCl₂ and the specific conductance was measured after each addn. of the reagent. The data are given in tabular and graphical form. The conductance in the humus and mineral suspensions by titrating with HCl decreased at first and then increased. The decrease is explained on the basis that the H ions have a higher mobility than either Na or Li. When all the Na and Li have been replaced the curve of the conductance rises rapidly in a straight line. For the suspensions without bicarbonates the rise in conductance coincides with the calcd. values. The slow increase in conductance in the beginning does not correspond with the calcd. values (the Kohlrausch formula was used). This is explained by the existence of disoced. Na ions from the humus complex in the humus suspension, but not in the mineral suspensions. The quantity of adsorbed H ions calcd. from the conductometric titration corresponds with the data of potentiometric titration. The coagulation of the humates and suspensions which do not contain bicarbonates takes place after the complete adsorption of the Ba or Li. For the mineral suspensions the H ions are more powerful coagulants than the Ba, but the converse is true for the humus. J. S. Ioffe

METALLURGICAL LITERATURE CLASSIFICATION

A3B-S1A

PROCESSES AND PROPERTIES INDEX

18

Ca

Preparation of H-permutite from glauconite sands.
 A. N. Kharin, P. N. Protasov and I. T. Deev. *J. Applied Chem. (U.S.S.R.)* 10, 1871-8 (in French 1978) (1957).—H-permutite can be prepd. from Vyatka glauconites by means of preliminary ignition at various temps. and removal of Ca. The absorption ability of glauconite decreases with a decrease of pH of initial water. Seventeen references. A. A. Podgorny

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

COMMON ELEMENTS

COMMON SYMBOLS

1ST AND 4TH ORDERS

111 AND 112 SERIALS 140 AND 113 SERIALS

PROCESSING AND PROPERTY INDEX

2

The determination of polythionates in the sulfur sols of Sven Oden by the method of Freundlich. A. N. Kharin, P. N. Kostany, N. Ya. Amshova and M. G. Yuster. *J. Gen. Chem. (U. S. S. R.)* **11**, 202-4(1941).—Freundlich's method (C. A. **17**, 1828) for the detn. of the no. of equivs. of polythionates in the sols of S is exact only for desorbed polythionates, found in the filtrate after the coagulation of the sols. The desorbed polythionates are pentathionates which Freundlich assumes to be stabilizers of Oden's sols of S. The no. of the equivs. of $S_2O_5^{2-}$ in the coagulates and sols by Freundlich's detn. appears to be larger than the actual no. of equivs. of micellar polythionates detd. by the method of Bassett and Durran (C. A. **20**, 2102), modified by the authors. The divergence of the results of $S_2O_5^{2-}$ detn. by Freundlich's method from the actual no. of equivs. of micellar polythionates depends on: the age of the sols, the length of time it has been in coagulated state, the kind of coagulating salt, the duration of the action of NH_4OH upon the sol, etc. This divergence is explained by the fact that there is a reaction between the polythionates and NH_4OH as well as an oxidation. **5** references. S. Machelson

METALLURGICAL LITERATURE CLASSIFICATION

ESCHER SCHWITZ

SERIALS

SERIALS

SERIALS

OCT. 10

PROTASOV P. N.

USSR/Chemistry - Absorption, of Acetic Acid
by Carbon
Chemistry - Acetic Acid, Absorption of

"Absorption of Substances by Granulated Carbon From a Flow of Solution: I, The Analysis of Dynamics of Acetic Acid Sorption by Coarse Porous Carbon," A. N. Kharin, P. N. Protasov, Krasnodar Pedagogical and Teachers' Inst, 20 $\frac{1}{2}$ pp

"Zhur Fiz Khimii" No 10

Studies dynamics of sorption of CH_3COOH from aqueous solutions of coarse carbon. Using theory of sorption dynamics developed by Zhukhovitskiy, Zabezhinskiy and Tikhonov, Calculates kinetic coefficients of acid sorption on carbon and establishes their dependence on speed of flow of solution and diameter of carbon grains. Calculation based on this data of asymptotic courses of relationship between time of protective action and length of carbon layer gives, for long periods, results in good agreement with experiment. Submitted 27 Dec. 47

PA 21/49T12

CA

The uptake of substances by granulated carbon from a stream of solution. Sorption dynamics of butyric acid from aqueous solutions. E. N. Protasov, A. N. Kharin, L. M. Volko, T. G. Bogolyubova, and L. G. Svintsova (Pedagog. and Teachers Inst., Krasnodar). *Zhur. Fiz. Khim.* 26, 182-91(1950); cf. C.A. 43, 1238c.—Butyric acid solns. (0.01-0.03 N) were filtered through columns, 1 cm. long, of birch charcoal whose particle diam. d was 0.15-0.325 cm. The time θ of break-through was $\theta = (sL/a)$; a cm./sec. is the rate of filtration. The consts.

θ_0 and a are given. The kinetic coeff. $\beta = -0.037 \cdot a^{0.51}/d^{0.52}$; the factor in it (0.037) seems to be inversely proportional to \sqrt{M} ; M = mol. wt. At $a = 1$, the increase of concn. of the filtrate in time agreed with the theory of Zuberzhinski, *et al.* (C.A. 43, 5255b), but at $a = 5$ the exptl. is smaller than the theoretical θ because internal diffusion becomes slower than the external. J. J. R.

TSITOVICH, I.K. (Krasnodar); ~~PROTASOV, P.N. (Krasnodar)~~; BOYKO, V.F. (Krasnodar)

Acquainting students with chemical means of crop protection. Knim. v
shkole no.3:38-44 My-Je '53. (MLR 6:7)
(Insecticides)

Chromathermography
by cold water while hot water takes 10 hrs. for complete
displacement. With chromathermography, displacement
of acetic acid is considerably accelerated (compared with
the onset of discharge of

FM
mt

IL'IN, Nikolay Mikhaylovich, PROTASOV, Petr Pavlovich,; KONEV, B.F., red. ;
ZUYEVA, N.K., tekhn. red.

[Fuel systems for automobile and tractor diesel engines] Sistemy
pitaniya avtomobil'nykh i traktornykh dvigatelei. Moskva, Nauchno-
tekhn. izd-vo avtotransp. lit-ry, 1958. 155 p. (MIRA 11:10)
(Diesel engines)

PROCESSES AND PROPERTIES INDEX

B-3-1

Method for determination of carbonizable potassium in
 carbonate salts. J. V. Petrov, *Pudbery*, 1930, No. 8,
 22-23. Of the various methods compared, Part's
 (NH₄)₂CO₃ method was the most suitable. S. and F. (m)

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

A U T H O R S

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CA

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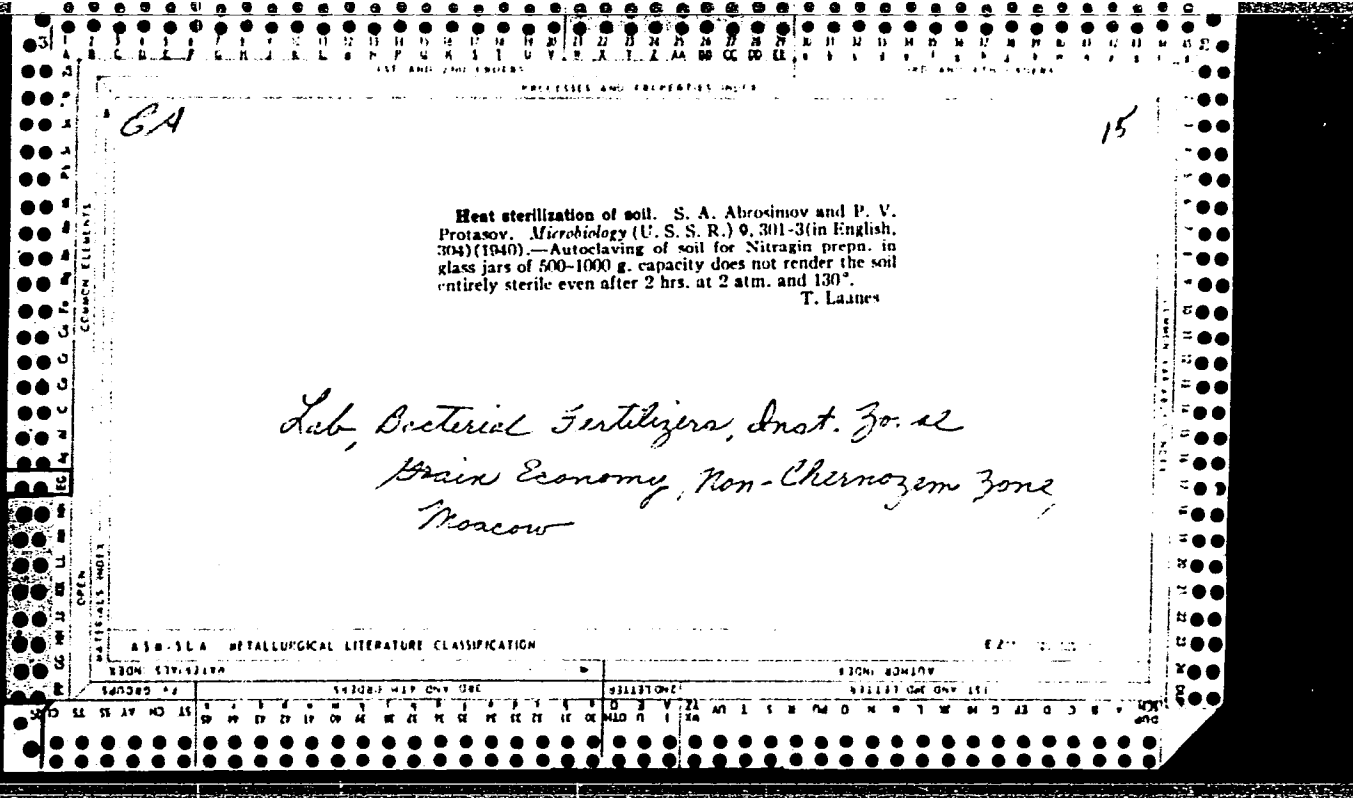
PROCESSES AND PROPERTIES IN THE

The use of the cobaltinitrite method of Milne for the determination of potassium in extracts from carbonate soils. P. V. Protosny and O. G. Petrova. *Chemization Sotsialisticheskoye (U. S. S. R.)* 8, No. 12, 61-4(1969); *Chem. Zentr.* 1969, II, 120.—The same results are obtained with the method of Milne (cf. *C. A.* 23, 5535) as with H_2PtCl_6 . The differences between the 2 did not exceed the permissible limit of 8.0%. Increased amounts of $CaCl_2$, $MgCl_2$, $CaSO_4$, and Na_2HPO_4 in no way affected the accuracy of the method. M. G. Moore

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

EXTRACTED FROM

EXTRACTED FROM



15

CA

Applying fertilizer to cotton at different stages of growth
N. P. Malinkin and P. V. Protasov. *Soviet Agron.* 9, No. 11, 63-73 (1951). N applications are essential all through the growing season. N starvation in the early stages and an abundance of N in the later stages retards the maturity of the fruit. With the increase in growth, side dressing with N should be increased. P is also essential from the early stages of growth. An abundance of P speeds up boll formation and maturity. All of the P can be applied at the time of prep. the soil. Fractional applications of P had no effect on plant and yield. K is also essential throughout the growing season, especially at the time of maturity.
J. S. Ioffe

PROTASOV, P. V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
<u>Protasov, P. V.</u>	"Cotton Growing" Textbook	Ministry of Agriculture Uzbek SSR

SO: W-30604, 7 July 1954

PROTASOV, P.V.

Primenenie kaliinykh udobrenii pod khlopchatnik v Srednei Azii (The use of potassium fertilizers for cotton growing in Central Asia). Tashkent, Akad, nauk UzSSR, 1953. 88 p.

SO: Monthly List of Russian Accessions, Vol 7, No. 8, Nov. 1954

PROTASOV, P.V.

✓ The importance of the type of nitrogen fertilizers under basic conditions. P. V. Protasov. *Sotsial. Sel'sk. Khuz. Uzbekistana* 1953, No. 3, 23-1; *Referat. Zhur., Biol.* 1953, No. 855.—A discussion of results of 3 field expts. with cotton grown on typical gray soil fertilized with superphosphate, saltpeter, KCN, and $(NH_4)_2SO_4$ as basic fertilizers. B. S. Levine

P. V. PROTASOV

Ozpi

✓ The application of fertilizer to cotton under irrigation in Middle Asia. P. V. Protasov. *Udobrenia i Urashal* 1, No. 2, 40-5 (1954).—On *SEROZEM* (gray semidesert soil) CaCN₂ plowed under proved superior to NH₄NO₃. This result is assocd. with the antiseptic properties of the former. With NH₄NO₃ and hexachloran the results were about the same as with CaCN₂. Of the methods of applying P, 90 kg. P₂O₅/ha., in conjunction with N, broadcasting and plowing-under proved to be the best. I. S. Joffe

1

USSR/Technical Crops. Oil Plants. Sugar Plants. M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77742.

Author : Protasov, P.V.; Pershin, G.P.

Inst :

Title : Significance of Early Feedings on the Increase of Harvest of Raw Cotton and the Acceleration of its Ripening.

Orig Pub: Sots s.-kh. Uzbekistana, 1956, No 5, 31-34.

Abstract: Vegetation experiments conducted in 1954 by the Central Station of Fertilizers and Agricultural Soil Science of the All-Union Scientific Research Institute of Cotton Cultivation showed that one of the conditions which assures early ripening of cotton is the regulation of the nutrition of the plants from the very beginning of their

Card : 1/3

USSR/Technical Crops. Oil Plants. Sugar Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77742.

vegetation. . The high requirement of N in cotton appears in the period of development of 3-4 current leaves, and of P when they are 10-25 days old. Feeding of N at this time accelerated the blossoming of the cotton by 3 days, and the opening of the bolls occurred 4 days earlier than in those plants which obtained N only in the budding period. 90% of the bolls opened in the first case, in the second - 80%. Field experiments conducted in 1955, in the Twentieth Party Congress Kolkhoz of the Yangi-Yul' Rayon, showed that the transference of a small part of the yearly norm of N from the period of budding and blossoming to early feeding assured the increase of the total harvest by 1.2-2.2 c/ha. However,

Card : 2/3

USSR/Technical Crops. Oil Plants. Sugar Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77742.

excess nitrogen nutrition in the early period can cause retardation in the growth and development of cotton. The great effect from early nitrogen feedings is obtained on typical sierozems long under cotton cultivation. Early feedings proved ineffective on fields after plowing up of grasses of first and second year and on meadow soils where there is a high content of N. -- V. F. Nepomiluyev.

Card : 3/3

96

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82433

Author : Protasov, P.V., Yarovenko, G.I.

Inst : -

Title : Some Data on the Influence of Antiseptics on Cotton Yield.

Orig Pub : Sots. s. kh. Uzbekistana, 1956, No 6, 71-73

Abstract : In 1955, laboratory experiments were carried out at the Central Station of Fertilizers and Agricultural Soil Science of the All-Union Cotton Scientific Research Institute for the purpose of a comparative study of the influence of N_{ts} (as an antiseptic) on the dynamics of the formation of nitrate and ammonium N in sierozenes. Experiments were conducted in Petri dishes. 100 grams of the soil and 20 milligrams of N in the form of N_{aa} , N_a and N_{ts} were placed in each dish. As antiseptics, 12% hexachlorane dust (20 milligrams to a dish) and N_{ts}

Card 1/2

- 87 -

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82433

(5 milligrams to a dish) were applied. The resulting data show that an addition to the fertilizers of a small quantity of N_2 or hexachlorane is accompanied with an accumulation of ammonium N and a slower acidification of it to nitrates. The field test conducted in the same year at Sverdlov Kolkhoz showed that an addition to N_{20} of antiseptics (hexachlorane, granosan [ethylmercurochloride], paraform) increased the cotton wool yield on an average by 3 centners/ha. The most positive effect on the cotton wool yield was produced by the 12% hexachlorane dist. -- V.F. Nepomiluyev

Card 2/2

PROTASOV, P.V.

BESEDIN, P.N., red.; POPOV, G.P., red.; PROTASOV, P.V., red.

[Collected scientific works on the use of fertilizers in cotton growing] Sbornik nauchnykh rabot po primeneniin udobrenii pod khlopchatnik. Pod red. P.N.Besedina, G.P.Popova i P.V.Protasova. Tashkent, 1957. 332 p. (MIRA 11:6)

1. Tashkent. Vsesoyuznyy nauchno-issledovatel'skiy institut khlopkovodstva. TSentral'naya stantsiya udobrenii i agropochvovedeniya. 2. Zamestitel' direktora po nauchnoy chasti Vsesoyuznogo nauchno-issledovatel'skogo instituta khlopkovodstva (for Besedin).
3. Direktor TSentral'noy stantsii udobreniya i agropochvovedeniya (for Popov). 4. Zamestitel' direktora po nauchnoy chasti TSentral'noy stantsii udobreniya i agropochvovedeniya (for Protasov) (Cotton growing) (Fertilizers and manures)

USSR / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24963

Author : Protasov, P. V.; Yarovenko, G. I.

Inst : Academy of Sciences UzSSR

Title : An Experiment in the Application of Liquid
Nitrogen Fertilizers Under the Cotton Plant

Orig Pub : V sb.: Ref. nauchno-issled. rabot po
khlopkovodstvu. Tashkent, AN UzSSR, 1957,
180-192

Abstract : A summary of the native and foreign
literature and also a generalization of field
experiments by the Academy of Sciences
Uzbek SSR, according to comparative testing
of liquid nitrogen fertilizers. A general
deduction is made that the liquid forms of

Card 1/2

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USSR / Cultivated Plants. Plants for Technical Use.
Oil Plants. Sugar Plants.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24963

nitrogen fertilizers (liquid ammonia and
ammine "A"), according to the nitrification
speed in the soil as well as to the effect of
the growth and development of the cotton
plant, are equivalent to the solid forms
(N_a and N_{aa}).

Card 2/2

Protasov, P.V.

USSR/Cultivated Plants - Technical, Oil and Sugar Plants.

M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10877

Author : Protasov, P.V., Pershin, G.P.

Inst : Union Scientific-Research Cotton Institute.

Title : Early Fertilization of Cotton in the Absence of Irrigation

Orig Pub : Sots. s. kh. Uzbekistana, 1957, No 4, 15-17

Abstract : On the basis of field experiments conducted in 1955 by the Central Station of Fertilizers and Agricultural Soil Husbandry Union Scientific Research Cotton Institute under production conditions it was determined that when nitrogen in the N_{aa} form is added to the fertilization from the side of the row in the 3-4 leaf phase, without subsequent irrigation, it is used by the plants before the budding phase and assures both a good total yield and a good amount of cotton before the frosts. The fertilizer must be inserted

Card 1/2

4

USSR/Cultivated Plants - Technical, Oil and Sugar Plants.

M-4

✓ Abs Jour : Ref Zhur - Biol., No 3, 1958, 10877

pirty deep, keeping it as close as possible to the row. Early nitrogen fertilization without irrigation is in no way inferior to fertilization with subsequent irrigation. It should be done on plots where, because of soil moisture and the external conditions of the plants, irrigation does not have to be done.

Card 2/2

J

COUNTRY : USSR
 CATEGORY : Soil Science. Mineral Fertilizers.
 ABS. JOUR. : SZN Biol., No. 2 3 1958, No. 104489
 AUTHOR : Erotaev, P. V.; Yarovenko, G. I.
 INST. : --
 TITLE : The Role of Antiseptics in Increasing the Effectiveness of Nitrogen Fertilizers on Irrigated Cotton Fields

ORIG. PUB. : Udobreniya i urozhay, 1958, No. 2, 31-34
 ABSTRACT

: Field experiments carried out on cotton-growing collective farms of Uzbekistan (the soil is typical sierozem with long-standing cotton culture) showed that the simultaneous introduction under plowing of N₂ and an antiseptic (N₂ -- lindane, paraform, and granosan -- sharply inhibited the viability of nitrifying and denitrifying bacteria, thus eliminating the possibility of N loss through denitrification and wash-out of N nitrate by autumn-winter precipitation. Thus, the introduction under plowing of 30 kg/hectare of N₂ + 60 kg/hectare of antiseptic (12% lindane dust, paraform or granosan) increased the growth of cotton, the

1/2

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...ntro-
 ...ressing.
 ...the greatest
 ...rate of 30 kg/hec-
 ...action. Similar
 ...in Petri dishes). Laboratory
 ...doses of lindane showed that the addition
 ...considerable accumulation and N₂ loss
 ...slower oxidation of ammonium N
 ...nitrates. -- O. P. Medvedeva

FRONTASOV, P. V.

COUNTRY : USSR
 CATEGORY : Agriculture. Expts. Commercial. Cottons. Sugar-B. USSR.
 ABST. JOUR. : ZEMEL'N., No. 4, 1969, No. 15732
 AUTHOR : Professor, I. I. Yanovskiy, G.
 INST. : Cotton Growing Research Inst., Uzbek SSR
 TITLE : Effectiveness of Presowing Placement of Ammonia Sulfate under Cotton.

ORIG. SUR. : Izvestiya, 1969, No. 4, 31-36

ABSTRACT : Findings of experiments of the central station of fertilizers and agricultural soil science of the cotton growing research institute of Uzbek SSR, and also an experiment of the agricultural chemistry laboratory of the Chinazskaya MTS on the advantage of Na₂SO₄ compared with Na₂CO₃ in case of presowing placement of Na₂SO₄ under cotton (in sierozema) at a rate of 25 to 30 % of the annual quota. Organizational economic advantages of this method are also indicated.
 -- B. I. Plyushko-Lavrich

CARD:

1/1

COUNTRY : USSR M
CATEGORY : Cultivated Plants. Commercial. Oleiferous.
Cotton-Bearing.
RUS. JOUR. : RZhBiol., No. 6, 1959, No. 15731
AUTHOR : Protasov, P.V.; Yarovankin, G.I.
INST. : All-Union Cotton Sci. Res. Inst.
TITLE : Presowing Placement of Liquid Nitrogen Fertilizers under Cotton.

ORIG. PUB. : Uzbrenniye i unozhny, 1958, No. 3, 35-38

ABSTRACT : The economic estimates and findings are cited of experiments of the central station of fertilizers and agrosil science of the All-Union Cotton Scientific Research Institute for 1957, conducted in sterozems in a number of kolkhozy of the Uzbek SSR, on the advantages of placing part of the liquid fertilizers amounting to 50 % of the annual N quota under ploughland as compared to using the entire annual quota of liquid ammonia only as supplementary fertilizer in the

WORD: 1/2

COUNTRY :
CATEGORY :

ABC. JOUR. : RZhBiol., No. 4, 1959, No. 15731

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT
period of vegetation. The presowing placement of part of the liquid ammonia heightened the raw cotton crop yield and reduced the capital investments in the construction of warehouse premises. -- B.I. Kopylovskiy-Gurvich

CARD: 2/2

MUKHAMEDZHANOV, M.V.; UL'DZHABAYEV, T.U.; MAMEDOV, M.T.; RODICHEV, S.D.;
FIRSOV, B.P. Primali uchastiy: PROTASOV, P.V.; POLEVSHCHIKOVA,
V.N.; MAL'TSEV, A.M. PEVZNER, L.I., red.; BONDARENKO, M., red.;
BAKHTIYAROV, A., tekhred.

[On cotton plantations of the U.S.A.] Na khlopkovykh plantatsiakh
SShA. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1959. 172 p.
(MIRA 13:10)

(United States--Cotton growing)

L 38364-66 ENT(m)/EWP(v)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6019946

SOURCE CODE: UR/0323/66/000/001/0054/0057

AUTHOR: Protasov, V. G. (Engr.); Baramboym, N. K. (Prof.; Dr. of Chemical Sciences);
Baranova, L. P. (Engr.); Sterligov, I. N. (Engr.)

ORG: Physical and Colloidal Chemistry Department, Moscow Technological Institute
of the Light Industry (Kafedra fizicheskoy i kolloidnoy khimii Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti)

TITLE: Study of adhesives based on modified polyethylene

SOURCE: IVUZ. Tekhnologiya legkoy promyshlennosti, no. 1, 1966, 54-57

TOPIC TAGS: adhesive, polyethylene plastic, footwear, polypropylene plastic, maleic anhydride

ABSTRACT: The possibility of using modified polyethylene as an adhesive for bonding footwear and sewing materials was investigated. The mechanochemical modification of polyethylene involved the use of a laboratory extruder; maleic anhydride (MA) was introduced to increase the polarity, and atactic polypropylene (APP) was added as a plasticizer. The properties of the adhesives were tested by bonding footwear and sewing materials in various combinations. Adhesive bonds in footwear materials were tested for ply separation, and in sewing materials, for ply separation and shear. It was found that as the atactic polypropylene content of polyethylene rises, the

Card 1/2

L 38364-66

ACC NR: AP6019946

resistance to ply separation increases; this is attributed to the plasticizing effect of APP. The addition of MA to the adhesive composition increases the adhesive strength by increasing the polarity of polyethylene and atactic polypropylene (by forming carboxyl groups). It is concluded that the use of modified polyethylene offers attractive new prospects for the production of inexpensive and efficient adhesives for the footwear and clothing industry. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 11/ SUEM DATE: 20Aug65/ ORIG REF: 004/

Card 2/2 vmb

RADAKOV, Dmitriy Viktorovich; PROTASOV, Vladimir Rustamovich; MANTFEYL',
B.P., otv. red.

[The speed of swimming and some characteristics of vision in
fish; a reference book] Skorosti dvizheniia i nekotorye osc-
bennosti zreniia ryb; spravochnik. Moskva, Izd-vo "Nauka"
1964. 47 p. (MIRA 17:6)

JILEK, J.O.; POMYKACEK, J.; JIRKOVSKY, I.; PROTIVA, M.

Synthetic ataractics. X. Improved methods of preparation of phenoharman. Cesk. farm. 13 no.5:229-233 1964

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

BELOUSOV, M.A., *otv. red.*; PROTASOV, P.V., *red.*; BESEDIN, P.N.,
red.; KENZER, A.P., *red.*; ARUTYUNOV, V.N., *tekhn.red.*

[Methods of agrochemical, agrophysical, and microbiological studies in irrigated cotton areas] *Metody agrokhimicheskikh, agrofizicheskikh i mikrobiologicheskikh issledovaniy v polivnykh khlopkovykh raionakh. 3., perer. i dop. izd. Tashkent, 1963. 439 p. (MIRA 17:3)*

1. Tashkent. Vsesoyuznyy nauchno-issledovatel'skiy institut khlopkovodstva.

PROTASOV, P.V., kand.sel'skokhozyaystvennykh nauk; ZELININ, N.N.; kand.-
sel'skokhozyaystvennykh nauk; PERSHIN, G.P., kand.sel'skokho-
zyaystvennykh nauk

Waste and qualith deterioration of mineral fertilizers due to poor
storage management. Zemledelie 24 no.6:51-54 Je '62.

(MIRA 15:11)

(Fertilizers and manures—Storage)

PROTASOV, Petr Vasil'yevich

[Nitrogen in cotton growing in Central Asia]Azot v khlopko-
vodstve Srednei Azii. Tashkent, Soiuz NIKHI, 1961. 163 p.
(MIRA 15:12)

(Soviet Central Asia--Cotton growing)
(Nitrogen fertilizers)

AUTHOR: Protasov, P.Ye.

SCV/130-58-7-25/35

TITLE: Thanks to the Party (Spasibo Partii)

PERIODICAL: Metallurg, 1958, nr 7, p 39; (USSR).

ABSTRACT: The author, who has worked for 25 years at the Magnitogorsk Combine (he was among those who put the first charge in the first open-hearth furnace there), briefly mentions some events which have taken place and, on the occasion of the "Day of the Metallurgist", thanks the Communist Party for taking care of ordinary workmen.
There is 1 illustration.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat
(Magnitogorsk Metallurgical Combine)

Card 1/1 1. Labor--Attitudes--USSR 2. Steel industry--USSR

117 AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 180 AND 4TH ORDERS

CA 18

The purification of red phosphorus from yellow. G. I. VILSOV AND S. P. PRO-
 YASOV. *Chem. Ind. (Moscow)* 1932, No. 10, 73-8.—The mixt. of red and yellow P is
 heated to 250° in a current of inert gas. The yellow P volatilizes and is completely
 removed. H. M. LEICHTER

COMMON ELEMENTS
 MATERIALS INDEX
 METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS 5TH AND 6TH ORDERS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

PROTASOV, S.I.

On a certain linear differential equation of infinite order. Dokl.
AN SSSR 111 no.6:1189-1192 D '56. (MIRA 10:3)

1. Taganrogskiy radiotekhnicheskiy institut. Predstavleno akademikom
A.N. Kolmogorovym.
(Differential equations, Linear)

OBLEKHOVA, O., inzh.; PROTASOV, V., inzh.

Effectiveness of the "Molikot" additive. Avt.transp. 40 no.2:
24-26 F '62. (MIRA 15:2)

1. Avtozavod im. Likhacheva.
(Lubrication and lubricants) (Molybdenum compounds)

OBLEUKHOVA, O.; PROTASOV, V.; KISELEVA, T.

All-weather oil for V-type carburetor engines. Avt.transp. 41
no.10:17-20 0 '63. (MIRA 16:10)

1. Avtozavod im. I.A.Likhacheva.

OBLEUKHOVA, O., inzh.; VIPPER, A., kand.tekhn.nauk; PROTASOV, V., inzh.;
TRUBINSKAYA, R., inzh.

Effect of a centrifugal cleaning on the extraction of
additives from oils. Avt.transp. 38 no.8:20-22 Ag '60.
(MIRA 13:8)

(Automobiles--Engines--Oil filters)

AID P - 5090

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 19/26

Author : Protasov, V. I., Eng. (Chief Mechanic of the Plant)

Title : Experience in modernizing the equipment at the Chelyabinsk Kirov Plant.

Periodical : Vest. mash., ³⁶/₁ 5, 69-75, My 1956

Abstract : The X Communist Party Congress of Soviets issued directives for a considerable renovation and modernization of metal-working equipment in the Sixth Five-Year-Plan. According to these instructions, the workers and engineers of the Chelyabinsk Kirov Plant carry out a program for improving the equipment and increasing the efficiency. The Plant's Chief Mechanic presents in this article some examples, of the improvement and modernization of various machines, lathes and tools. 10 diagrams.

Institution : ~~None~~ *Chief Mechanic, Chelyabinsk Kirov Plant.*

Submitted : No date

L 14171-66

EWT(m)/EWP(j)/T/ETC(m)-6

WW/RM

ACC NR: AP6003938

SOURCE CODE: UR/0374/65/000/005/0039/0044

AUTHOR: Protasov, V. D. (Moscow); Kopnov, V. A. (Moscow)

45
B
15, 44

ORG: none

TITLE: Investigation of the strength of fiberglass reinforced plastics under plane state of stress

SOURCE: Mekhanika polimerov, no. 5, 1965, 39-44

TOPIC TAGS: fiberglass, reinforced plastic, anisotropic medium, tensile stress, complex stress

ABSTRACT: The method and the results of experimental investigations of glass reinforced textolite strength under plane state of stress are considered. Tubular samples are destroyed by the simultaneous effect of longitudinal load, regular pressure, and torsional moment. It was shown that the results of the experimental tests conform with the theoretical calculations according to the theory of strength of anisotropic material suggested in the investigation. Orig. art. has: 5 figures, 9 formulas, and 1 table. [Based on author's abstract].

SUB CODE: 11/ SUBM DATE: 24May65/ ORIG REF: 006

Card 1/1

UDC: 678:539.4.011

RAZUMEYEV, V.F., kand.tekhn.nauk, dotsent; PROTASOV, V.D., inzh.; ANISIMOV,
A.D., inzh.

Strength characteristics of circular pipes made of pertinax. Izv.
vys. ucheb. zav.; mashinostr. no. 3:40-45 '61. (MIRA 14:5)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.
(Pipe, Plastic)

PROTASOV, V.D.

Automatic hole-boring machine. Mashinostroitel' no.10:
22 0 '61. (MIRA 14:9)

(Drilling and boring machinery)

PROTASOV, V.; KESKO, Ye.

The wage system which excludes equalization. Sots. trud 7 no.12:118-123
D '62. (MIRA 16:2)

1. Zamestitel' nachal'nika otdela truda i zarabotnoy platy Noril'skogo
gornometallurgicheskogo kombinata (for Protasov). Starshiy inzh.
otdela truda i zarabotnoy platy Noril'skogo gornometallurgicheskogo
kombinata (for Kesko).
(Noril'sk—Wages—Nonferrous metal industries)

ARBIYEV, K.K., gornyy inzh.; PROTASOV, V.F., kand. ekonom. nauk

Technical progress at ore strip mines of the Noril'sk Combine. Gor. zhur.
no.6:6-10 Je '65. (MIRA 18:7)

PROTASOV, V.F., kand. ekonom. nauk; BOCHKAREV, G.N.

Improving the type of work organization and wages at the Noril'sk
Combine strip mines. Gor. zhur. no.6;16-18 Je '65. (MIRA 18;7)

PROTASOV, V.I.

Infinite system of linear differential equations. Dokl. AN
SSSR 105 no.2:218-221 '55. (MLBA 9:3)

1. Taganregskiy radiotekhnicheskiy institut. Predstavleno akade-
mikon S.L. Sobolevym
(Differential equations, Linear)

PROTASOV, V. I.

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/2 PG - 618
 AUTHOR PROTASOV V.I.
 TITLE On a linear differential equation of infinite order.
 PERIODICAL Doklady Akad. Nauk 111, 1189-1192 (1956)
 Reviewed 2/1957

The author considers the differential equation

$$\sum_{n=0}^{\infty} a_n y^{(n)}(x) = f(x)$$

and states that if $\lim_{n \rightarrow \infty} \sqrt{\frac{|a_n|}{n!}} = \frac{1}{R}$ and $f(x)$ is an entire function the order

of increase of which is not greater than $1/2$ and the type of which is smaller than $2\sqrt{R}$, then the considered differential equation possesses an entire solution which also has the order of increase $< 1/2$ and a type $< 2\sqrt{R}$. But if $f(x)$ has the order of increase $1/2$ and is of the type $< 2\sqrt{R_1}$ ($R_1 < R$), then there exists a solution among the entire functions of the order of increase $< 1/2$ and of the type $< 2\sqrt{R_1}$.

The third assertion is the following theorem: If $\lim_{n \rightarrow \infty} \frac{1}{n^2} \sqrt{\frac{|a_n|}{n!}} = (\sigma_1 \circ \delta_1)^{\frac{1}{2}}$

Doklady Akad. Nauk 111, 1189-1192 (1956)

CARD 2/2

PG - 618

($\rho_1 > 1$) and $f(x)$ has the order of increase $\frac{\rho_2}{2\rho_2-1}$, $\rho_2 > \rho_1$ and is of the normal type, then there exists a solution among the functions which does not increase quicker than entire functions of the order $\frac{\rho_2}{2\rho_2-1}$ and possess the same type. The theorems are illustrated by some examples.

INSTITUTION: Radiotechnical Institute, Taganrog.

PERMANENT, H.I., Sec. 20, p. 1001 -- (Also) "What is the... of...
tion is the... of... H.I. (H.I. is... of...)"
... 1958. 11 p., (in... of... ..
...), 100 copies (1-1-58, 19)

AUTHOR: Protasov, V.I.

SOV/20-121-4-6 /54

TITLE: On Linear Partial Differential Equations of Infinite Order With Constant Coefficients (O lineynykh uravneniyakh v chastnykh proizvodnykh beskonechnogo poryadka s postoyannymi koeffitsiyentami)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 4, pp 594-597 (USSR)

ABSTRACT: If one seeks an analytic solution $u(x, z)$ of

$$(1) \begin{cases} \frac{\partial^m u}{\partial x^m} = \sum_{\nu=0}^{m-1} \sum_{n=0}^{\infty} a_n^{(\nu)} \frac{\partial^{\nu+n} u}{\partial x^{\nu} \partial z^n} \\ \left. \frac{\partial^{\nu} u}{\partial x^{\nu}} \right|_{x=0} = y_{\nu}(z), \quad \nu = 0, 1, 2, \dots, m-1 \end{cases}$$

in the form of an absolutely convergent series

$$u(x, z) = \sum_{n=0}^{\infty} \frac{z^n}{n!} y_n(x),$$

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then one obtains for the determination of $y_n(x)$, $n=0,1,2 \dots$ the problem

$$(2) \begin{cases} y_k^{(m)}(x) = \sum_{\nu=0}^{m-1} \sum_{n=0}^{\infty} a_n^{(\nu)} y_{n+k}^{(\nu)}(x) \\ y_n^{(\nu)}(0) = c_n^{(\nu)} = v_{\nu}^{(n)}(0) \quad , \quad n=0,1,2,\dots \quad , \quad \nu=0,1,2,\dots,m-1 \end{cases}$$

The author formulates five theorems on the solutions of the problems (1) and (2) each; e.g. :

Theorem: If $F(z) = \sum_{n=0}^{\infty} a_n z^n$, $a_n = \max_{0 \leq \nu \leq m-1} \{ |a_n^{(\nu)}| \}$

is analytic in $|z| < R$ and if $\overline{\lim}_{n \rightarrow \infty} \frac{1}{R} \sqrt[n]{|c_n^{(\nu)}|} < 1$

$$\nu = 0,1,2,\dots, m - 1 ,$$

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then (2) possesses an entire solution and this is unique.
Theorem: If for all sufficiently large $|\zeta|$ the expression

$|f(\zeta)|$, where $f(\zeta) = \sum_{n=0}^{\infty} a_n \zeta^n$ is smaller than $e^{-\sigma|\zeta|^\rho}$

($\sigma > 0$, $\rho > 0$), and if the functions $v_p(z)$ are entire, of growth of at most first order, and of normal type, then (1) possesses a unique analytic solution which is entire in x and z . For fixed x (or z) $u(x, z)$ does not increase quicker in z (or x) than a function of first order and of normal type. There are 2 Soviet references.

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut (Taganrog Radiotechnical Institute)

PRESENTED: March 31, 1958, by S.L. Sobolev, Academician

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PROTASOV, V.I.

THIS BOOK IS CLASSIFIED "SECRET"

Introductions to some mathematical problems... 5,000 copies printed.

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UR/0020/65/164/004/0743/0745

ACCESSION NR: AP5025852

AUTHOR: Protasov, V. I.

TITLE: Cauchy problem for a linear differential equation of infinite order

SOURCE: AN SSSR. Doklady, v. 164, no. 4, 1965, 743-745

TOPIC TAGS: differential equation, Cauchy problem

ABSTRACT: The author proves six theorems concerning equations

$$\sum_{n=0}^{\infty} a_n y^{(n)}(z) = f(z) \quad (a_0 \neq 0) \quad (1)$$

and

$$\sum_{n=0}^{\infty} a_n y^{(n)}(z) = 0 \quad (a_0 \neq 0) \quad (2)$$

These theorems assert the existence of analytic solutions in various circles and lack of existence of analytic solutions outside certain circles. Orig. art. has: 4 formulas.

ASSOCIATION: none

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ACCESSION NR: AP5025852

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PROTASOV, V.I.

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507/566

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti.
 Tsentral'noye pravleniye. Sektsiya resheniya i modernizatsii obratovaniya

Modernizatsiya i remont obrabotvaniya mashinostroitel'nykh serodov (Modernization
 and Repair of Machine-Building Plant Equipment) Moscow, Mashgis, 1957.
 261 p. Errata slip inserted. 6,100 copies printed.

Ed. (Title page): N.A. Soskin, Candidate of Technical Sciences; Ed. (Inside book):
 A.T. Popov, Engineer; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on
 Metalworking and Machine-Tool Construction (Mashgis): N.D. Beyzel'man, Engineer;
 Editorial Board: N.A. Soskin (Chairman), Candidate of Technical Sciences;
 Yu.S. Borisov, Engineer; V.D. Platrev, Engineer; V.I. Mikhaylovskiy, Engineer;
 and V.P. Golov, Engineer.

PURPOSE: This collection of articles is intended for technical personnel dealing
 with modernization and overhaul of equipment.

COVERAGE: The articles in this collection deal with the basic trends and a number
 of specific problems in the modernization of the machine industry. Modernization
 of foundry, forging-shop, and crane equipment and problems in the automation of
 equipment repair are discussed. Information is given on the use of unitized

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Slavov, V.Ye. [Engineer, Makhovskiy tornarnyy zavod (Moscow Brake Plant)], A.M. Paligskiy, [Candidate of Technical Sciences, MFTI (Soviet Berman)]. Measurement of the Constructional Rigidity of Metal-Cutting Machine Tools During Repair and Modernization	214
Protasov, V.I. [Engineer, Chelyabinskiy traktornyiy zavod (Chelyabinsk Tractor Plant)]. Use of Automatic Vibratory Hard Facing (With Vibrating Electrodes)	228
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ACCESSION NR: AP4019962

S/0020/64/154/006/1273/1275

AUTHOR: Protasov, V.I.

TITLE: Solution of infinite order linear equations in generalized derivatives

SOURCE: AN SSSR. Doklady*, v. 154, no. 6, 1964, 1273-1275

TOPIC TAGS: linear equation, infinite order linear equation, generalized derivative, generalized derivative linear equation, infinite matrix, matrix theory

ABSTRACT: Some theorems concerning the existence of solutions to a linear, nonhomogeneous equation of infinite order in generalized derivatives with constant coefficients are given. Equations of the type

$$\sum_{n=0}^{\infty} a_n D^n y(z) = f(z), \quad (1)$$

where a_n are constants, are examined. The concept of $D^n y$ is a generalized derivative of the order n from the function of $y(z)$

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ACCESSION NR: AP4019962

which is defined as follows. Let $y(z) = \sum_{k=0}^{\infty} c_k z^k$ be a function,

analytic in some circle, and the point $(\alpha_0, \alpha_1, \alpha_2, \dots)$ given, $\alpha_k \neq 0, k=0, 1, 2, \dots$, when α_k are complex numbers. Then

$D^n y(z) = \sum_{k=n}^{\infty} \frac{\alpha_{k-n}}{\alpha_k} c_k z^{k-n}$, if there is a convergence of the series $\sum_{k=n}^{\infty} \frac{\alpha_{k-n}}{\alpha_k} c_k z^{k-n}$

in some circle. If $\lim_{n \rightarrow \infty} n^{1/\rho} \sqrt[n]{|\alpha_n|} = (\sigma \rho)^{1/\rho} > 0, \overline{\lim}_{n \rightarrow \infty} n^{1/\rho} \sqrt[n]{|\alpha_n|} = (\sigma \rho)^{1/\rho},$ (2)

and the characteristic function $\varphi(t)$ of equation (1) is an integer of a growth ρ and of type σ , then there exists a solution, for the right hand part of $f(z)$, analytic in the circle $|z| < R$, where $R > (\frac{2\sigma}{\rho})^{1/\rho}$, which is analytic at least in the circle $|z| < (R^{\rho} \frac{\sigma}{\rho} - \frac{\sigma}{\rho})^{1/\rho}$ then equation

If $\lim_{n \rightarrow \infty} n^{1/\rho_1} \sqrt[n]{|\alpha_n|} = \delta > 0, \overline{\lim}_{n \rightarrow \infty} n^{1/\rho_2} \sqrt[n]{|\alpha_n|} = \delta > 0,$

$\lim_{n \rightarrow \infty} n^{1/\rho} \sqrt[n]{|\alpha_n|} = (\sigma \rho)^{1/\rho},$ where $\rho_1 < \rho_2 < \rho,$

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(1) has a solution among the whole functions of an order of growth no higher than ρ_2/ρ_1 and of a normal type. If

$$\overline{\lim}_{n \rightarrow \infty} n^{1/\rho} \sqrt[n]{|a_n|} = (\sigma \rho)^{1/\rho}, \quad \underline{\lim}_{n \rightarrow \infty} n^{1/\rho} \sqrt[n]{|a_n|} = (\sigma \rho)^{1/\rho},$$

$$\overline{\lim}_{n \rightarrow \infty} n^{1/\rho} \sqrt[n]{|a_n|} = (\sigma \rho)^{1/\rho}$$

and the function $f(z)$ has a growth $[\rho_0, \sigma_0]$, then a solution to equation (1) exists among the whole functions with a growth no larger than the order ρ_0 and of a normal type, wherein the solution is unique with $\rho_0 < \rho$. Orig. art. has: 2 equations.

ASSOCIATION: Rostovskoye vy*ssheye komandno-inzhenernoe uchilishche
(Rostov Higher Command and Engineer School)

SUBMITTED: 01Jul63

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ENCL: 00

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NO REF SOV: 002

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Card 3/3

PROTASOV, V.I.

Solutions to linear generalized partial differential equations of infinite order. Dokl. AN SSSR 154 no.6:1273-1275 F '64. (MIRA 17:2)

1. Rostovskoye vyssheye komandno-inzhanernoye uchilishche. Predstavleno akademikom A.N.Kolmogorovym.

PROTASOV, V.N.

GRABENKO, I.K., professor; PROTASOV, V.N. kandidat meditsinskikh nauk

Treating forms of infectious nonspecific polyarthrits. Vrach.delo
no.8:875-877 Ag '57. (MLRA 10:8)

1. Fakul'tetskaya terapevticheskaya klinika (sav. - prof. I.K.
Grabenko) Rostovskogo meditsinskogo instituta
(JOINTS--DISEASES)

DEMIDOV, V.S.; KIRILLOV-UGRYUMOV, V.G.; PONOSOV, A.K.; PROTASOV, V.P.;
SERGEYEV, F.M.

Absorption of stopped negative η^- -mesons in carbon. Zhur. eksp. i teor.
fiz. 44 no.4:1144-1146 Ap '63. (MIRA 16:4)

1. Moskovskiy inzhenerno-fizicheskiy institut.
(Mesons—Capture) (Carbons)