

BOGACHEV, V.M.; KUNINA, S.L.; PETROV, V.Yo.; POPOV, I.A., kand.
tekh. nauk, dots.

[Design of transistorized transmitter stages; manual for
a design course] Raschet kaskadov poluprovodnikovyykh pe-
redatchikov; posobie po kursovomu proektirovaniu. Mo-
skva, Mosk. energ. in-t, 1964. 170 p. (NIRA 18:1)

1. Moskovskiy elektrotekhnicheskiy institut svyazi (for
Popov). 2. Kafedra radioperedayushchikh ustroystv Moskov-
skogo energeticheskogo instituta .

Popov, Ivan

✓ 6898* (Czech.) About the Calculation of the Supplementary
Magnetomotive Force for the Compensation of the Rotor Re-
action in D. C. Machines. K otázce výpočtu přídatné mag-
netomotorické síly pro kompenzaci reakce kotvy u stej-
nosměrných strojů. Milčo Zlatev and Ivan Popov. Elektro-
technický Obzor, v. 46, Jan. 1957, p. 15-17.

3

elec

R. W. ...

PGPOV, I.F., assistant.

Intraosseous pentotal anesthesia in swine. Sbor. trud. Khar'.vet.
inst. 21:445-452 '52. (MLRA 9:12)

1. Kafedra operativnoy khirurgii Khar'kovskogo veterinarnogo in-
stituta.

(Anesthesia) (Pentotal) (Swine)

POPOV, I. G.

00000

7
 Luminescence analysis of water. I. G. Popov (Central
 Post-Graduate Med. Inst., Moscow). *Laboratorios Delo*
 2, No. 4, 7-8(1950).—Description of an ultraviolet app.
 used in vitamin analysis. This app. permits the observa-
 tion of photoluminescence of those compds. whose spectral
 range is within 400-370 millimicrons. It is this range which
 caused the photoluminescence of many org. compds.
 Inorg. compds. do not exhibit luminescence at this range
 with the exception of uranyl and complex Pt compds.
 which are seldom present in the water and then at such low
 concns. that their disturbing effect can be discounted.
 A. S. Mirkin

POPOV

PM MK

BRNESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.N., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YER-SHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KRUTOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PAFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PURSHINSV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSEIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; SHIN, L.Ye., professor, doktor tekhnicheskikh nauk; YUGENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKANGELSKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BERNGARD, K.A., kandidat tekhnicheskikh nauk; BOROVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;

(Continued on next card)

RENESHTVICH, I.I.---(continued) Card 2.

VASIL'YEV, V.F.; GONCHAROV, H.G., inzhener; DERIBAS, A.T., inzhener;
DOBROSEL'SKIY, E.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH,
B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk;
ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABZILLO, H.L., kandidat tekhnicheskikh nauk; IL'IN, K.P.,
kandidat tekhnicheskikh nauk; KARSTENIKOV, A.D., kandidat tekhnicheskikh nauk;
KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, P.P., professor, doktor tekhnicheskikh nauk;
KODAN, L.A., kandidat tekhnicheskikh nauk; KUGHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener;
MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener;
MSDAL, G.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk;
PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk;
PSTHOV, A.P., professor, doktor tekhnicheskikh nauk; POBOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk;
PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk;
SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener;
TALDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhener;
USPBNSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener;
KHOKHLOV, L.P., inzhener; CHERNOMORDIK, G.I., professor, doktor tekhnicheskikh nauk;
SHAMAYEV, M.F., inzhener; SHAPIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener;
GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor;
KLIMOV, V.F., dotsent kandidat tekhnicheskikh
(Continued on next card)

BENESHEVICH, I.I.--- (continued) Card 3.

nauk, redaktor; KARNOV, H.V., inzhener, redaktor; KALININ, V.K., inzhener, redaktor; STEPANOV, V.K., professor, redaktor; SIDOROV, H.I., inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; ROBEL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii spravochnik zheleznodorozhnika. Moskva, Gos. transp.zhel-dor. izd-vo. Vol.10. [Electric power supply for railroads] Energosnabzhenie zheleznnykh dorog. Otv.red. toma K.G.Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Eksploatatsiia zheleznnykh dorog. Otv. red. toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)
(Electric railroads) (Railroads---Management)

POPOV, I.V.

Aerial photographic study of the meandering process of river curves.
Trudy Ukr. NIOMI no.3:151-155 '55. (MLRA 9:10)

1. Gosudarstvennyy ordena Trudovogo Krasnogo Znameni gidrologicheskiy
institut.

(Aerial photogrammetry) (Rivers)

10/1/54

"Electronic switch to turn circuits off."
Radio, Sofia, Vol 3, No 4, 1954, p. 28

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

Popov, I

Synthetic fungicides. I. Antimycotic action of phytochemical-type substances and of β -naphthalenic derivatives. Ch. Popov, Ch. Ivanov, N. Angelov, and Iv. M. Panajotov. *Comptes Rendus Acad. Sci. Tchernovkoff (Sofia)*. *Compt. Rend. Acad. Bulgare Sci.* 6, 37-40 (1954) (in French); cf. Popoff and Bajčekoff, *Contemporary Medicine* 8, 52 (1952) (in Bulgarian). For expts. *in vitro*, *Aspergillus niger*, *Trichophyton gypsum*; and 2 strains of *Monilia albicans* isolated from lesions of children having grave onychiasis were used. The trials were made in test tubes contg. 5 or 10 ml. of medium on which was poured 0.10 or 0.20 ml. of the alc. soln. of the substance to be examd. The mg. % concn. giving complete inhibition for *T. gypsum*, *M. albicans*, and *A. niger* are, resp.: 2-naphthoxyacetic acid 8, 12, 12; 2-naphthoxyacetic acid Me ester --, --, 10; 2-acetonaphthone 2, 12, 12; 2-naphthaldehyde 10, 15, 15; 2-naphthyl phenyl ketone --, +30, +30; 2-naphthaldehyde thiosemicarbazone --, +10, +10; 2-naphthylmercaptosuccinic acid >4, >4, 20; 1-acetonaphthone 20, 20, 20; 1-naphthaleneacetic acid +20, +30, +30; (2,4-dichlorophenoxy)acetic acid -- +30, +30; (o-methoxyphenoxy)acetic acid --, +20, +20; thymoxyacetic acid --, +20, +20; methyl 3-phenoxyphenyl ketone --, --, +20; 2-chloro-1,4-naphthoquinone +4, +4, +10; dypnone 10, >20, 20; 8-hydroxyquinoline 2, >4, 4. A + sign indicates that the development is not influenced but higher concns. were not examd.; > the development is strongly inhibited but not completely stopped.

II. Hulasz

MA
WST
③

POPOV, I.

Determining the characteristics of the operation of asynchronous motors at normal primary pressure. p. 3.
ELEKTROENERGIJA, Sofiya, Vol. 6, no. 1, Jan. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

POPOV, I.

"A Conference on the Study of the Hydrological State," pp 91-93 (mid).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3216, 3 Apr 1953

POPOV, I.

Effectiveness of bank control. Den.1 kred.14 no.8:35-37 Ag '56.
(MLRA 9:9)

(Khabarovsk Territory--Banks and banking)(Khabarovsk Territory--
Industrial management)

POPOV, I.

Utilize surplus revenue in local budget. Fin. SSSR 17 no.7:48-51
Jl '56. (Ukraine--Budget) (MLRA 9:9)

POPOV, I.

Strengthening the base of income in local budgets. Fin. SSSR 16
no.5:41-45 My '55. (MLRA 8:6)
(Banks and banking)

POFOV, I.

"Financing capital investments in industry", P. 12., (TESHKA PROM-
ISHLENCST, Vol. 3, No. 10, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4,
No. 6, June 1955, Uncl.

POFOV, I.

Tank firing drills. No 5.

Tankist, No 12, 1948.

POPOV, I.
POPOV, I.

Firing instruction for tankment during the summer training period. No 4.

Tankist, No 12, 1948.

POPOV, I.

Popov, M., Popov, I., "Method for Reducing Nicotine in Tobacco." p.209 (IZVESTIYA,
Vol. 2, 1961, Sofiya.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress,
March 1964, Uncl.

POPOV, I.

"The regenerated kolkhoz." Tr. from the Russians. p 67, (KOOPERATIVNO BENEDELIE,
Vol 6, #1/2, Jan/Feb 1951, Bulgaria)

East European Vol 2 #8
SO: Monthly List of Russian Accessions / Library of Congress, August 1953, Uncl.

MONDESHKI, M., prof.; RADANOV, R.; POPOV, I.; SLAVOV, G.; DOBEV, P.

Active non-surgical therapy of tuberculous empyema. Suvren.med.,
Sofia 6 no.8:26-41 1955.

1. Iz Katedrata po ftiziatrila pri Med. akademila V.Chervenkov -
Sofia (direktor: prof. M.Mondeshki)
(TUBERCULOSIS, PULMONARY, complications,
pleural empyema, ther.)

POPOV, I.; SLAVOV, G.

Application of pneumoperitoneum in complex therapy of pulmonary tuberculosis. Suvrem.med., Sofia 6 no.8:76-84 1955.

1. Iz Katedrata po ftiziatrria (direktor: prof. M.Mondeshki) pri Visshia meditsinski institut V.Chervenkov) Sofia.
(PNEUMOPERITONEUM, ARTIFICIAL, therapeutic use, tuberc., pulm., in complex ther.)

M. Z. Donev
DONEV, M.Z.; POPOV, Iord. St.

Treatment of pulmonary tuberculosis by extrapleural pneumonolysis.
Suvrem.med., Sofia 6 no.8:53-66 1955.

1. Iz Durzh. sanatorium s. Iskrets (bivsh gl.lekar.: M.Z.Donev)
(COLLAPSE THERAPY,
pneumonolysis, extrapleural)

POPOV, I.

Cleaning shoes and other leather goods. Rabotnitsa 35 no.2:30 P '57.
(Leather) (Cleaning) (MIRA 10:4)

POPOV, I.

Ukraine - Local Finance

Local budgets in the Ukrainian S.S.R. Fin. 1 kred. SSSR No. 2, 1953.

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

1. POPOV, I.
2. USSR (600)
4. Local Finance-Ukraine
7. Local budgets in the Ukrainian S.S.R. Fin. i kred. SSSR no. 2 1953

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

NOTES, I.

Fancy, I. Determining the effect of the correlation of
asynchronous notations of normal primary procedure. p. 3. MINI F O R T W I L I A.
Sofiya. Vol. 6, no. 1, Jan. 1955

SO; Monthly List of East European Accessions, (SAB), LD. Vol. 4, no.
10, Oct. 1955. Uncl.

POPOV, I., kandidat biologicheskikh nauk.

Decreasing the wear and tear on clothing in the laundering process.
Zhil.-kom. khoz. 3 no.11:22-23 [N]'53. (MLRA 6:12)
(Laundries, Public)

1. POPOV, I.; MALUSHKO, V.
2. USSR (600)
4. Cheese Factories
7. Some problems of re-equipping cheese plants, I. Popov, V. Malushko, Moloch.prom. 14 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

POPCV, 1.

Local Finance - Ukraine

Regulating the utilization of special reserve funds and improving control over local budgets,
Sov. fin. 13, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

1. POPOV, I.
2. USSR (600)
4. Chaunskiy District - Moving-Picture Projection
7. Beyond the Arctic Circle, Kinomekhanik no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

POPOV, I., SVINTSOV, A. V.

Hydrology

Conference on the study of hydrological process. Met. i gidrol. no. 6, 1947.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

POPOV, I.

Laundry

Laundering linens with the application of sodium silicate. Rabotnitsa 30, no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

1. POPOV, I.
2. USSR (600)
4. Laundry
7. Laundering woollens. Rabotnitsa 31, No. 1, 1953.

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

BOICV, Ivan, engineer.

Lectures on general electric engineering; introduction to electrical engineering and the theory of electric machinery. Sofia, 1945-
(55-17646)

TK145.F775

1. Electric engineering. 2. Electric machinery.

3-58-6-8/34

AUTHOR: Popov, I.D.

TITLE: In the Interests of Developing Industry (V interesakh razvitiya promyshlennosti)

PERIODICAL: Vestnik Vyshey Shkoly, 1958, Nr 6, p 34-35 (USSR)

ABSTRACT: The Leningradskiy inzhenerno-ekonomicheskiy institut (LIEI) (Leningrad Engineering and Economical Institute) renders substantial scientific help to the city's industrial enterprises on questions of economics and organization of production. This was also done before the Leningradskiy sovet narodnogo khozyaystva (sovnarkhoz) (Leningrad Council of National Economy) was organized. Yet, the situation changed radically after the sovnarkhoz was established. The institute's staff of professors and instructors at once felt that the Council of National Economy was deeply interested in the scientific research conducted by the institute. The institute's deputy-director for scientific work, Dotsent S.A. Volkov, Dotsent L.L. Shayovich, Candidate of Economical Sciences M.I. Orlova, and others have, in conjunction with manufacturers, worked out methodical suggestions for the most rational specialization and cooperation of semi-finished product plants and the production of fixtures. These suggestions were accepted and

Card 1/2

Popov, I.D.

AUTHOR: Popov, I.D.

3-5-23/38

TITLE: The Rhythm of Operation in Machine Building Enterprises
(Za ritmichnost' raboty mashinestroitel'nykh predpriyatiy)

PERIODICAL: Vestnik vysshey shkoly, 1957, Nr 5, pp 64-65 (USSR)

ABSTRACT: The author reports on an inter-VUZ scientific conference at the Leningrad Engineering Economics Institute, the subject of which concerned matters of organization and planning of a proportional way of operation in machine building enterprises. Reports were made on this subject by the following scientific persons: Professor E.A. Satel' of the Moscow Engineering Economics Institute and Dotsent K.G. Tatevosov of the Leningrad Engineering-Economics Institute who declared that deficiency in specialization and co-operation prevent rhythmical operation. Dotsent I.A. Rozenberg of the Ural Polytechnical Institute demonstrated in his report that there is a lack of rhythm in many machine building works.

V.G. Firsov, Chief of Production at the Leningrad Kirov Works, described a special production system in serial and non-serial machine building.

The results of the conference were reflected in its decision. It stated that one of the factors of increased produc-

Card 1/2

0014 4/4

POPOV, I. D.

12

Feeding experiments on calcium and phosphorus contents of Bulgarian feeding stuffs with the addition of chalk and calcium phosphate. Iw. D. Popov. Ann. univ. Sofia 9, 109-230(231) 2 in German (1931). - The effects of chalk and Ca phosphate addition to the daily ration on the milk yields of cows and the Ca and P contents of domestic feeds were studied and results are given in 10 tables. During the winter period (shed feeding) a good hay provides sufficient Ca when the milk production does not exceed 18 kg. a day. Otherwise an addn. of chalk is necessary. Lucerne hay with corresponding good concd. feed furnishes sufficient Ca and P. During the suckling period, however, there is not enough Ca, and chalk should be added. I. Kufera

AS 56-55.4 METALLURGICAL LITERATURE CLASSIFICATION

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

1ST AND 2ND CODES

PROCESSES AND PROPERTIES INDEX

100 AND 4TH CODES

28

Composition, digestibility and feed value of molasses
manufactured in Bulgaria. Zh. Ganchev and I. Eupov.
Ann. univ. Sofia. V. Facult. agron. sylviculture II, 435-
341 (in German 450 (12)(1953)). J. Kucera

COMMON ELEMENTS

COMMON VARIABLE INDICES

1ST AND 2ND CODES

3RD AND 4TH CODES

5TH AND 6TH CODES

7TH AND 8TH CODES

9TH AND 10TH CODES

11TH AND 12TH CODES

13TH AND 14TH CODES

15TH AND 16TH CODES

17TH AND 18TH CODES

19TH AND 20TH CODES

21ST AND 22ND CODES

23RD AND 24TH CODES

25TH AND 26TH CODES

27TH AND 28TH CODES

29TH AND 30TH CODES

31ST AND 32ND CODES

33RD AND 34TH CODES

35TH AND 36TH CODES

37TH AND 38TH CODES

39TH AND 40TH CODES

41ST AND 42ND CODES

43RD AND 44TH CODES

45TH AND 46TH CODES

47TH AND 48TH CODES

49TH AND 50TH CODES

51ST AND 52ND CODES

53RD AND 54TH CODES

55TH AND 56TH CODES

57TH AND 58TH CODES

59TH AND 60TH CODES

61ST AND 62ND CODES

63RD AND 64TH CODES

65TH AND 66TH CODES

67TH AND 68TH CODES

69TH AND 70TH CODES

71ST AND 72ND CODES

73RD AND 74TH CODES

75TH AND 76TH CODES

77TH AND 78TH CODES

79TH AND 80TH CODES

81ST AND 82ND CODES

83RD AND 84TH CODES

85TH AND 86TH CODES

87TH AND 88TH CODES

89TH AND 90TH CODES

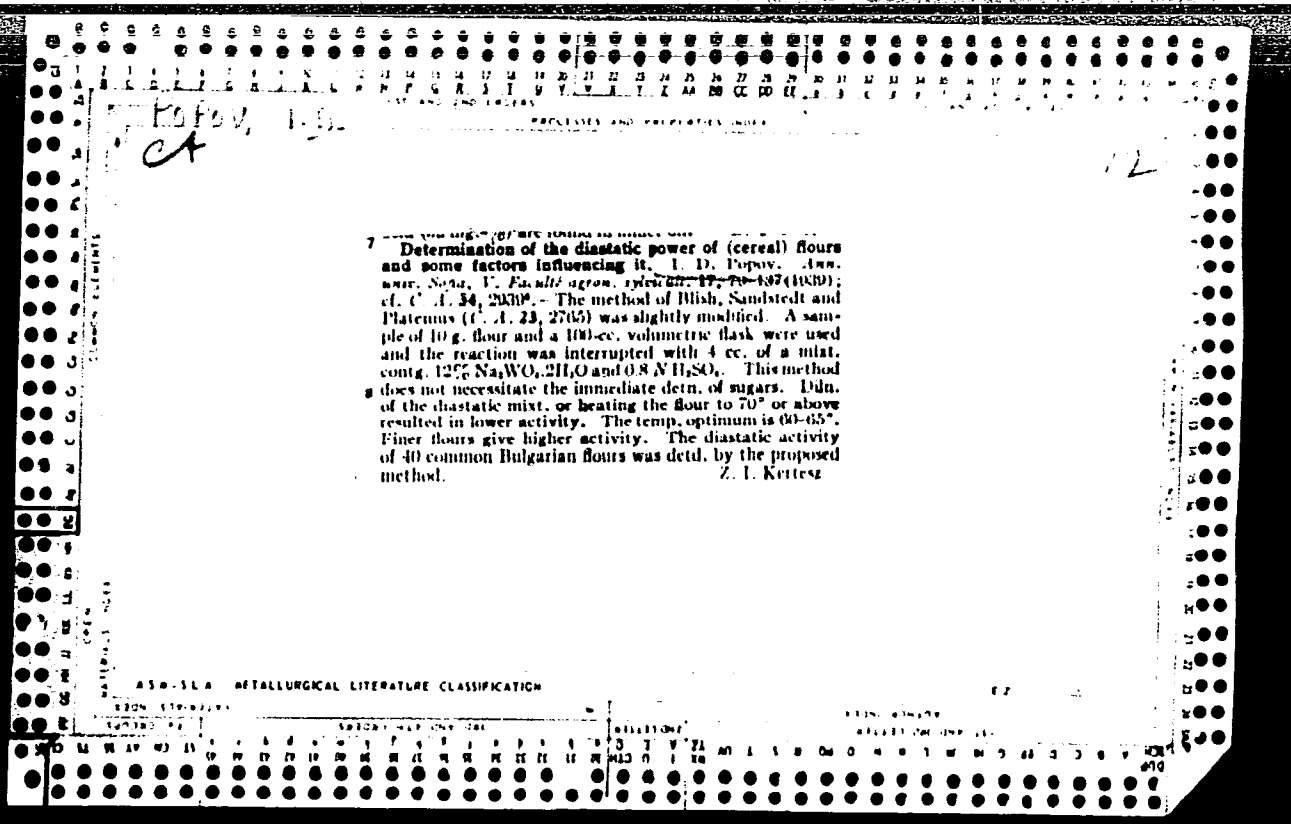
91ST AND 92ND CODES

93RD AND 94TH CODES

95TH AND 96TH CODES

97TH AND 98TH CODES

99TH AND 100TH CODES



CA

Popov, I. D.

25

Wood saccharification. Ivan D. Popov (Agton, Fakul-
tat, Plovdiv, Bulgaria). (*Zeitschr. angew. Chem.*,
Sci. math. et nat. 2, No. 2, 45-8 (1949) (in German)).
Dry beech sawdust (3-5 g.) is treated 2 hrs. with 30 cc.

of reagent (40% ZnCl₂ in 37% HCl) at 22°. The result-
ing sirupy mass is dil'd. to 2% acid, refluxed for 1 hr. and
filtered. The lignin residue represents 28% of the weight
of the wood. This agrees very well with values obtained
by more conventional methods. The filtrate contains
67.8% of reducing sugar (as glucose). Pretreatment of
the wood with 2% HCl at reflux (to remove hemicellulose)
results in a cellulose-lignin residue contg. (after treatment
with the reagent) 46% reducing sugar and 24.8% lignin.
The filtrate contains 20% reducing sugar. The higher
lignin content found in the original wood is attributed to
resinification of a portion of the hemicelluloses by strong
acid. The whole wood gives a lignin-free filtrate which
ferments sluggishly. After 24 hrs. only 22% of the re-
ducing sugar is fermented. The pretreated wood (hemi-
cellulose-free) gives a filtrate which ferments rapidly (87%
in 24 hrs.). The hemicelluloses ferment very slowly. P.
concludes that degradation products from the hemicellu-
loses reduce the activity of the yeast. H. Tarkow

POPOV, I. D.

ALESHIN, B. V.; POPOV, I. D.

Histology and physiologic theory of I. P. Pavlov. Arkh. anat., Moskva
30 no.6:30-41 Nov-Dec 1953. (CJML 25:5)

1. Of the Department of Histology (Head -- Prof. B. V. Aleshin) and the
Department of Marxism-Leninism (Head -- Docent I. D. Popov) of Khar'kov
Medical Institute (Director -- Docent. I. F. Kononenko).

Popov, Ivan, D.

Popov, Ivan D.; Biokhimiya (Biochemistry). Plovdiv,
Bulgaria: Nauka i izkustvo. 1951. 400 pp. 1

MA
4/10/51

Popov, Ivan D.

✓
The enzymochemical activity of seed on the application of ultrasonics. Ivan D. Popov, N. Karabashev, and T. Karabasheva. *Compt. rend. acad. bulgare sci.* 8, No. 1, 65-8 (1955) (in Russian) (German summary).—Seed from rice, barley, and alfalfa was used. As a sound source an ultrasonic generator with piezoquartz or a magnetostrictive oscillator was used. The application of sound caused a substantial increase in the amylase-catalase-peroxidase activity. There was also an activation of the germination process. In addn. a strong development of the root system and the stalk was observed. It is advisable to soak the seeds in water varying lengths of time, according to the type of seed, before the application of the sound. I. M. Widom

3

PURDY, J. D.

Author: Purdy, J. D. - Respiration and metabolism.

1-3

Abstr Jour : Res Jour - Biol., No 4, 1959, 191-197

Author : Purdy, J. D.

Title : Biochemical studies of wheat seedlings with tungstate and cobalt ions.

Orig Pub : Sov. In-Gen Biol. Bulg. Lit., 1956, 7, 11, 1-103

Abstract : Soaking of wheat seeds (for 45 hours) in a 0.05% solution of $MnSO_4$ or of wheat seeds, beer-brewing barley (for 8 hours) and rice (for 43 hours) in a 0.05% and a 0.05% solution of $TaCl_5$ stimulated gas and increased respiration, catalase activity, amylase activity and, as a result of the fact, accelerated the consumption of the available starch. Treatment with 0.5% cobalt or tungsten acted depressingly. The increase in the number of granules after treatment with $MnSO_4$ was equal to 40%. The catalase

2000 1/2

Abstr Jour : Res Jour - Biol., No 4, 1959, 191-197

1-3

relationship between the weight of individual seeds and the number of starch granules among all the tested seedlings (1, 2, 3) was 1:1.

POPOV I. D.

BULGARIA/Chemical Technology - Chemical Products and Their
Application. Fermenting Industry.

II-27

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59004
Author : Popov Ivan D, Georgiev Ivan K, Tonchev T A, Manchev S
Inst :
Title : Speeding-Up the Ripening Process of Young Wine of the
Dimyat Type by a Biological Method.
Orig Pub : Izv. in-ta biol. Bulg. AN, 1957, 8, 207-221

Abstract : In semi-factory conditions, the possibility was studied
of the utilization of the preparation Botrytis cinerea
(see RZhKhim, 1957, 6527) for speeding-up the process
of ripening and aging of young wine of the Dimyat type.
The introduction into the wine of 0.75 g/l of a dry
preparation significantly increases the content of
amine nitrogen, lowers the quantity of colloids, does
not change the hydrolysing activity of the esterase,
increases its synthesis activity and the activity of

Card 1/2

- 77 -

BULGARIA/Plant Physiology - Mineral Nutrition.

I.

Abs Jour : Ref Zhur - Biol., No 23, 1950, 104376

Author : Popov, I.D., and Karistov, V.

Inst : Bulgarian AS

Title : The Penetration of Co⁶⁰ Into Wheat Seeds upon Soaking
Them in a Solution.

Orig Pub : Dokl. Bolg. AN, 10, No 1, 73-76, 1957.

Abstract : Wheat seeds were soaked for 7 hours in a 0.02% solution
of CoCl₂ containing 20 curies of Co⁶⁰, and thereupon ger-
minated on filter paper soaked in distilled water. Co⁶⁰
penetrated the seeds chiefly through the seed bud and,
to a much smaller extent, through the opposite end of the
seed. Upon the germination of seeds Co⁶⁰ migrated to the
root of the germ plant, and the radioactivity of the
stalk increased slightly. --- L.V. Romanov

Card 1/1

LEVIN, Mark Mironovich, prof.; ZADOROZHNYI, B.A., dotsent, red.;
BELOUSOV, V.A., prof., red.; BOKARIUS, N.N., prof., red.;
VOROB'YEV, F.P., assistent, red.; GRISHCHENKO, I.I., prof., red.;
DERKACH, V.S., prof., red.; KORSUN', A.Ya., dotsent, red.;
KOSHKIN, M.L., prof., red.; KUDINTSEV, V.I., dotsent, red.;
PIKIN, K.I., prof., red.; PRIKHOD'KOVA, Ye.K., prof., red.;
POPOV, I.D., dotsent, red.; SOLOV'YEV, M.N., prof., red.;
SHTEYNBERG, S.Ya., prof., red.; KHARCHENKO, N.S., prof., red.

[Repeated surgery in stomach diseases following operations]
Povtornye operatsii pri zabolevaniakh operirovannogo zheludka.
Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1961. 177 p.
(Kharkov. Medychnyi institut. Trudy, vol.58). (MIRA 16:2)
(STOMACH—SURGERY)

GOL'DFARB, Lev Grigor'yevich; POPOV, Ivan Denisovich; GRUBNIK, P.D.,
red.; LIMANOVA, M.I., tekhn. red.

[Modernization of equipment and increasing labor productivity;
from the work practice of the machinery industry of the Kharkov
Economic Administrative Region] Modernizatsiia oborudovaniia i
povyshenie proizvoditel'nosti truda; iz opyta raboty mashino-
stroitel'noi promyshlennosti Khar'kovskogo ekonomicheskogo
administrativnogo raiona. Khar'kov, Khar'kovskoe knizhnoe izd-
vo, 1962. 66 p. (MIRA 16:7)
(Kharkov Economic Region--Machinery industry--Technological in-
novations)

POPOV, I.D.

Reproduction of beech in cutovers as related to the type of the forest and various intensity of cuttings at the Akhmeta Forest Working Circle. Trudy Inst.lesa AN Gruz.SSR 11:153-168 '62.
(MIRA 16:2)

(Akhmeta District--Beech)
(Akhmeta District--Forest reproduction)

LOPOV, I. P. (People's Republic of Bulgaria)

"Use of Ultrasonics in Agriculture. A Possible Explanation
for the Biochemical Effects."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 August 1961

POPOV, Iv.D.

Copper cation as a catalyst accelerating malting. Ukr. biokhim.
zhur. 33 no.2:253-260 '61. (MIRA 14:4)

1. Sektor biokhimii, Tsentral'nyy nauchno-issledovatel'skiy institut
rasteniyevodstva Bolgarskoy akademii nauk.
(COPPER) (MALT) (CATALYSIS)

GORKIN, Z.D., prof.; POPOV, I.D., dotsent (Khar'kov)

Introduction of new technology and further tasks in the
improvement of labor conditions. Vrach.delo no.6:621-623

Je '60.

(MIRA 13:7)

(INDUSTRIAL HYGIENE)

POPOV, Iv.D.

Malting barley in a shortened period of time. Izv Inst biol BAH 10:
217-226 '60. (EEAI 10:4)
(BARLEY)

COUNTRY : BULGARIA
CATEGORY :
ABR. JOUR. : *Szheisel*, No. 3 1957, No. 10109
AUTHOR : Popov Ivan D., Georgiyev Ivan K., Tonchev, T. A., *
INST. : Institute of Biology of the Bulgarian Academy of Sciences
TITLE : The Acceleration of Maturation of Young Wine of the
Dymyat Variety by the Biologic Method
ORIG. PUB. : *Izv. In-ia biol. B'lg. AN*, 1957, 8, 207-221
ABSTRACT : * Manchev, S.
Use of a fermenting preparation of *Botrytis cinerea*
made it possible to obtain wine of a higher quality in a
number of characteristics, chiefly in its clarity.

Card: 1/1

POPOV, I.F., assistant.

Mass use of pentothal anesthesia in swine. Sbor. trud. Khar', vet.
inst. 22:392-398 '54. (MIRA 9:12)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii Khar'-
kovskogo veterinarnogo instituta.
(Pentothal) (Anesthesia) (Veterinary surgery)

POPOV, I.F., dotsent

The collection "Public health service in Voronezh Province
from 1917 to 1957". Zdrav.Ros.Foder. 3 no.8:40-41 Ag '59.
(MIRA 12:11)
(VORONEZH PROVINCE--PUBLIC HEALTH)

POPPOV, I. P.
ca

22

Cedar sawmill waste as a raw material for the production of rosin soap. Yu. V. Branke and I. P. Popov, *Bull. Far East Branch Acad. Sci. U. S. S. R.* No. 10, 9-20(1936); *Chimie & industrie* 38, 1148.—It is advantageous to work up Korean cedar (*Pinus koraiensis*) waste to produce, on the one hand rosin and spirit of turpentine, and on the other cellulose or its hydrolysis products, more particularly carbohydrates, as feed. Hydrolysis should be carried out in 2 stages, which permits of obtaining a yield of up to 47.44% of reducing carbohydrates on the dry basis. A. Papineau-Couture

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

VOYDA, A.N. [reviewer]; KRUTIKOV, N.P.; SHCHERBAKOV, K.F.; SMIRNOV, I.I.;
POPOV, I.F. [authors].

Review of "Theory, design and calculations of farm machinery." volume 1.
by N.P.Krutikov, K.F.Shcherbakov, I.I.Smirnov and I.F.Popov. Sel'khoz-
mashina no.10:31-32 0 '53. (MLRA 6:11)
(Agricultural machinery) (Krutikov, N.P.)

POPOV, I.F., dotsent.

Elements of the theory of the rotary working parts of hay harvesters.
Sel'khoz mashina no.4:15-20 Ap '54. (MLRA 7:5)
(Harvesting machinery)

SOV/137-58-8-16683

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 64 (USSR)

AUTHOR: Popov, I.F.

TITLE: Extraction of Molybdenum by Ion Exchange From Discharge Waters of the Hydrometallurgical Department of the Balkhash Plant, and Certain Questions of the Mechanism of Interaction Between Molybdenum and Ion Exchangers (Izvlucheniye molibdena metodom ionnogo obmena iz sbrosnykh vod gidrometallurgicheskogo tsekha Balkhashskogo zavoda i nekotoryye voprosy mekhanizma vzaimodeystviya molibdena s ionitami)

PERIODICAL: V sb.: Materialy Soveshchaniya po primeneniyu ionnogo obmena v tsvetn. metallurgii. Moscow, 1957, pp 61-63

ABSTRACT: A procedure for the recovery of Mo from mother liquors and wash waters or mixtures thereof has been developed at the Balkhash Plant. The method consists of oxidizing the solution to a pH of 3, whereupon it is passed through TM "espatit" in the form of a sulfate. Mo recovery came to 98-99%. Regeneration is by normal ammonia solution. An ammonium-molybdate solution containing 60-65 g Mo/liter is obtained. At present, an industrial installation to recover Mo by this

Card 1/1

method is under construction. G.F. I. Molybdenum--acetic acid
2. Ion exchange--Applications 3. Solutions--Oxidation

POPOV, Il'ya Fedorovich, dots.; ZHELIGOVSKIY, V.A., akad., retsenzent.;
PONOMAREV, V.A., kand. tekhn. nauk, red.; AVSHAROVA, Ye.G., red. izd-va.;
MODEL', B.I., tekhn. red.

[Hay harvesting machinery; construction, theory and design]
Mashiny dlia uborki trav na seno; konstruktsiia, teoriia i raschet.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 268 p.
(MIRA 11:11)

(Hay Harvesting)

POPOV, I.F..dots.; KLENIN, N.I., inzh.

Effect of the mounting of rear wheels of tractor plows on the
tractive resistance. Trakt. i sel'khoz mash. no.2:28 B '59.
(MIRA 12:1)

1. Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo
khozaystva im. V.M.Molotova.
(Flows--Testing)

KLENIN, N.I., dots.; POPOV, I.F., dots.; SERGEYEV, A.S., dots.;
SOLOV'YEV, V.M., dots.; TIMOFEEV, A.I., dots.; SHMELEV,
E.M., dots.; LETNEV, E.Ya., red.; FEVZNER, V.I., tekhn.
red.; DUDAKOV, V.A., tekhn. red.

[Manual on practical exercises with agricultural machines
and implements] Praktikum po sel'skokhoziaistvennym mashinam
i orudiam. [By] N.I.Klenin i dr. Moskva, Sel'khozizdat,
1963. 319 p. (MIRA 17:2)

KOZLOV, N.S.; PINEGINA, L.Yu.; POPOV, I.F.

Catalytic synthesis of halogen derivatives of β -aryl amino ketones. Zhur.ob.khim. 31 no.7:2234-2236 J1 '61. (MIRA 14:7)

1. Permskiy sel'skokhozyaystvennyy institut.
(Ketone)

KOCHEMAZOV, M.I.; POPOV, I.F.

Some results of the reorganization of the district level of the rural public health system in Kuyb shev Province. Zdrav. Ros. Feder. 4 no. 10:27-32 0 '60. (MIRA 13:10)

1. Iz ~~May~~byshhevskogo oblastnogo otdela zdravookhraneniya.
(KUYB SHEV PROVINCE—PUBLIC HEALTH)

S/032/60/026/008/023/046/XX
B020/B052

AUTHORS: Popov, I. F., Rodzayevskiy, V. V., and Lazarev, A. I.

TITLE: News in Brief

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 8, p. 949

TEXT: A method is suggested for the separation of molybdenum and tungsten from rhenium, which is based upon the adsorption of these elements on MnO_2 . During the separation of molybdenum, 50 - 100 ml of the alkaline solution containing rhenium and molybdenum, are neutralized with sulfuric acid (1:2) until the bromophenol blue turns yellow. For each 60 mg of molybdenum in the sample, 8 ml of 0.25 N potassium permanganate solution, 7 ml of a 0.5 M Mohr's salt solution, and 3 ml of 0.25 N sulfuric acid are added. During four minutes the solution is boiled, cooled down, and poured into a 200 ml measuring flask, which is filled up to the mark with distilled water. After filtering, rhenium is colorimetrically determined in an aliquot part of the solution by ammonium rhodanide and tin chloride. The colored complex is extracted by butyl alcohol. Prior to the

Card 1/2

POPOV, I.G., kand.ekonom.nauk; KHAVAYEV, N.I., tekhn.red.

[Work standards in agriculture] Normirovanie truda v
sel'skom khoziaistve. Moskva, Mosk.gos.ekon.in-t, 1959.

31 p.

(MIRA 12:7)

(Agriculture--Production standards)

POPOV, I.G., prof., doktor tekhn.nauk (Leningrad)

Approximate calculation of long cylindrical shells. Rasch.-
prostr.konstr. no.6:189-212 '61. (MIRA 15:3)
(Elastic plates and shells)

POPOV, I.G.

Method for luminescence analysis of water. Lab.delo 2 no.4:7-9
Jl-Ag '56. (MLRA 9:10)

1. Iz Tsentral'nogo instituta usovershenstvovaniya vrachey,
Moskva.

(LUMINESCENCE) (WATER--ANALYSIS)

~~POPOV, I.G.~~ kandidat meditsinskikh nauk (Moskva); IVANOVA, Ye.N., kandidat
meditsinskikh nauk (Moskva)

Role of feldshers in the sanitary inspection of wells. Fel'd.
i akush. 22 no.2:40-45 P '57 (MIRA 10:5)
(WATER SUPPLY)

POPOV, I.G., kand.med.nauk

Some features of analysing water on the basis of its fluorescence
[with summary in English]. Gig. i san. 23 no.5:21-26 My '58

(MIRA 11:6)

1. Iz kafedry voyennoy gigiyeny voyennogo fakul'teta Tsentral'nogo
instituta usovershenstvovaniya vrachey.

(WATER,

photoluminescent analysis (Rus))

POPOV, I.G., kand.med.nauk, IVANOVA, Ye.N., kand.med.nauk (Moscow)

Public health requirements in setting up field stations.
Fel'd i akush. 23 no.5:42-45 My '58 (MIRA 11:6)
(AGRICULTURA--HYGIENIC ASPECTS)

POPOV, I.G., kand.med.nauk; IVANOVA, Ye.N., kand.med.nauk (Moskva)

Prophylaxis of poisoning by tetraethyl lead, an ethyl solution, and ethyl gasoline. Fel'd. i akush. 24 no,10:38-41 0 '59.

(MIRA 13:2)

(LEAD POISONING)

POPOV, G.M., prof.; POPOV, I.G., kand.meditsinskikh nauk

Fifty years of water disinfection by chlorine in waterworks in
Russia. Gig. i san. 25 no.4:112-113 Ap '60. (MIRA 13:8)
(WATER SUPPLY) (CHLORINE AND DERIVATIVES AS DISINFECTANTS)

POPOV, Ivan Gerasimovich, kand. ekon. nauk; KOVALEV, N.I.,
spets. nauchn. red.; PYLAYEVA, A.P., red.

[Mathematical methods in economic calculations for agri-
culture] Matematicheskie metody v ekonomicheskikh raschetakh
po sel'skomu khoziaistvu. Moskva, Kolos, 1964. 238 p.
(MIRA 17:10)

IVANOV, Anatoliy Yevgeniyevich; KRAYEVSKIY, N.A., prof., red.; POPOV, I.G.,
red.; SENCHILO, K.K., tekhn. red.

[Pathoanatomical changes in the lungs in radiation sickness] Pato-
logoanatomicheskie izmeneniia legkikh pri luchevoi bolezni. Pod red.
N.A.Kraevskogo. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 153 p.
(MIRA 14:8)

1. Deystvitel'nyy chlen AMN SSSR (for Krayevskiy)
(LUNGS—DISEASES) (RADIATION SICKNESS)

POPOV, I.G., mayor meditsinskoy sluzhby, kand.med.nauk

Preflight sleep of the flyer. Vest. Vozd. Fl. no.5:50-61

My '61.

(MIRA 14:8)

(Flight crews--Care and hygiene)

GUMENER, Pinkhos Il'ich; POPOV, I.G., red.; BEL'CHIKOVA, Yu.S.,
tekhn. red.

[Study of thermoregulation in the hygiene and physiology of
work] Izuchenie termoregulatsii v gigiene i fiziologii tru-
da. Moskva, Medgiz, 1962. 229 p. (MIRA 16:1)
(BODY TEMPERATURE—REGULATION) (INDUSTRIAL HYGIENE)

GUREVICH, I.I. [translator]; YAZDOVSKIY, V.I., prof., red.; POPOV,
I.G., red.; BALDINA, N.F., tekhn. red.

[Problems in space medicine; a collection of articles by
foreign authors] Voprosy kosmicheskoi meditsiny; sbornik sta-
tei zarubezhnykh avtorov. Moskva, Medgiz, 1962. 323 p.
(MIRA 15:9)

(SPACE MEDICINE)

MALYSHEVA, Aleksandra Yevdokimovna; POPOV, I.G., red.; CHULKOV, I.F.,
tekhn. red.

[Hygienic problems of radiation heat exchange of man and
his environment; radiation cooling] Gigienicheskie voprosy
radiatsionnogo teploobmena cheloveka s okruzhaiushchei sre-
doi; radiatsionnoe okhlazhdenie. Moskva, Medgiz, 1963. 241 p.
(MIRA 16:4)

(HEAT--RADIATION AND ABSORPTION)
(BODY TEMPERATURE--REGULATION)

VOLYNKIN, Yu.M.; ARUTYUNOV, G.A.; ANTIPOV, V.V.; ALTUKHOV, G.V.;
BAYEVSKIY, R.M.; BELAY, V.Ye.; BRYANOV, P.V.; BRYANOV, I.I.;
VASIL'YEV, P.V.; VOLOVICH, V.G.; GAGARIN, Yu.A.; GEMIN, A.M.;
GORBOV, F.D.; GORSHKOV, A.I.; GUROVSKIY, N.N.; YESHANOV, N.Kh.;
YEGOROV, A.D.; KARPOV, Ye.A.; KOVALEV, V.V.; KOLOSOV, T.A.;
KORESHKOV, A.A.; KAS'YAN, I.I.; KOTOVSKAYA, A.R.; KALIBERDIN,
G.V.; KOPANEV, V.I.; KUZ'MINOV, A.P.; KAKURIN, L.I.; KUDROVA,
R.V.; LEBEDEV, V.I.; LEBEDEV, A.A.; LOBZIN, P.P.; MAKSIMOV,
D.G.; MYASNIKOV, V.I.; MALYSHKIN, Ye.G.; NEUMYVAKIN, I.P.;
ONISHCHENKO, V.F.; POPOV, I.G.; PORUCHIKOV, Ye.P.; SIL'VESTROV,
M.M.; SERYAPIN, A.D.; SAKSONOV, P.P.; TEREENT'YEV, V.G.; USHAKOV,
A.S.; UDALOV, Yu.F.; FOMIN, V.S.; FOMIN, A.G.; KHLEBNIKOV, G.F.;
YUGANOV, Ye.M.; YAZDOVSKIY, V.I.; KRICHAGIN, V.I.; AKULINICHEV,
I.T.; SAVINICH, F.K.; STMPURA, S.F.; VOSKRESENSKIY, O.G.;
GAZENKO, O.G., SISAKYAN, N.M., akademik, red.

[Second group space flight and some results of the Soviet
astronauts' flights on "Vostok" ships; scientific results of
medical and biological research conducted during the second
group space flight] Vtoroi gruppovoi kosmicheskii polet i neko-
torye itogi poletov sovetskikh kosmonavtov na korabliakh
"Vostok"; nauchnye rezul'taty medikobiologicheskikh issledovaniy,
provedennykh vo vremia vtorogo gruppovogo kosmicheskogo poleta.
Moskva, Nauka, 1965. 277 p. (MIRA 18:6)

POPOV, I.G.; KRICHAGIN, V.I.; BORSHCHENKO, V.V.; SAVINICH, F.K.

Study of the hygienic aspects of space clothes used in small
cabins under comfortable microclimatic conditions. Probl.
kosm. biol. 4:180-187 '65. (MIRA 18:9)

L 23281-66 FSS-2/EWT(1)/EEC(k)-2/EWA(d) SCTB TT/ED/GW
ACC NR: AP6011411 SOURCE CODE: UR/0216/66/000/002/0212/0220

AUTHOR: Balakhovskiy, I. S.; Vasil'yev, P. V.; Kas'yan, I. I.;
Popov, I. G. 29
K

ORG: none

TITLE: Results of a physiological and biochemical examination of the
Voskhod-1 crew

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 2, 1966,
212-220

TOPIC TAGS: manned spaceflight, human physiology / Voskhod-1

ABSTRACT: Some detailed physiological and biochemical results (in-
cluding some redundant data) of the Voskhod-1 flight are given in the
following figures:

Card 1/7

UDC: 612.17

L 23281-66

ACC NR: AP6011411

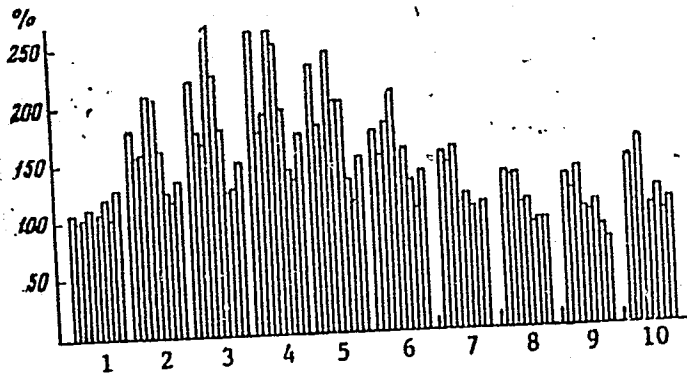


Fig. 1. Comparative data on pulse variations for all cosmonauts (% above normal) at various flight stages. The sequence of bars in each frame corresponds to: Gagarin, Titov, Nikolayev, Popovich, Bykovskiy, Tereshkova, Komarov, Feoktistov, Yegorov.

1 - 4 hr before launch; 2 - 5 min before launch; 3 - 1 min before launch; 4 - 1 min after launch; 5 - greatest G force; 6 - 1st orbit; 7 - 2nd orbit; 8 - 4th orbit; 9 - 6th orbit; 10 - last orbit.

Card 2/7

L 23281-66

ACC NR: AP6011411

Table 1. Changes in some EKG indexes during the Voskhod-1 flight; PQ, QRS, Q-T, R-R intervals in sec; spike amplitudes of P, R, T in relative units; systolic index (SI) in %; all mean data

Cosmonauts	Indexes	Pre-launch,	Orbits			
		5 min.	2	7	13	16
V. M. Komarov	P	0,88	3,2	2,9	0,6	0,78
	R	15,4	40,3	30,5	10,0	10,1
	T	2,7	14,2	14,5	3,6	2,6
	PQ	0,10	0,11	0,11	0,10	0,10
	QRS	0,06	0,07	0,07	0,07	0,08
	Q-T	0,34	0,37	0,38	0,38	0,34
	R-R	0,61	0,78	0,78	0,89	0,75
	SI	55,7	48,7	50,7	45,0	45,3
K. P. Feoktistov	P	0,81	—	2,4	0,60	0,64
	R	16,4	—	38,7	8,9	9,1
	T	3,4	—	13,2	3,2	2,8
	PQ	0,14	—	0,14	0,11	0,12
	QRS	0,05	—	0,06	0,06	0,08
	Q-T	0,36	—	0,42	0,38	0,36
	R-R	0,69	—	0,96	0,87	0,78
	SI	52,9	—	43,3	44,2	46,8
B. B. Yegorov	P	0,37	2,4	1,6	0,44	0,51
	R	10,9	32,0	39,2	8,9	8,1
	T	1,1	5,7	10,8	2,4	1,8
	PQ	0,12	0,12	0,16	0,10	0,10
	QRS	0,06	0,06	0,07	0,07	0,07
	Q-T	0,34	0,37	0,39	0,40	0,37
	R-R	0,59	0,73	0,98	1,03	0,90
	SI	58,6	50,7	40,1	39,2	41,0

Card 3/7

L 23291-66
ACC NR: AP6011411

Table 2. Water balance during the flight

1 - Loss of water with urine; 2 - cosmonauts; 3 - linen chloride content, mg; 4 - urine excretion, liters; 5 - water lost via imperceptible perspiration during the flight, liters; 6 - total, calculated water loss through the skin during the flight, liters; 7 - water ingested, including water in food, during the flight, liters; 8 - actual weight lost from 8:20, 12/10 to 18:10, 13/10, 1964, kg; 9 - V. M. Komarov, K. P. Feoktistov, B. B. Yegorov in that order.

2	1		5	6	7	8
	3	4				
9	532	3,4	1,0	4,4	1,6	1,0
	324	2,1	1,0	3,1	1,6	2,0
	460	3,2	1,0	4,2	1,6	3,0

Card 4/7

I 23281-66
 ACC NR: AP6011411

Table 3. Biochemical and morphological content of the blood during the flight compared with training data

Indexes	Complex training		Background examination		Flight		After flight			
	Be-fore	Aft-er	43 days	12 days	start	end	immed	1	15	
								day	days	
V. M. Komarov										
Sugar, mg%	92	115	—	105	101	—	—	160	115	107
Urea, mg%	34	38	38	22	32	—	—	41	39	28
Chlorine, mg%	225	250	280	225	175	—	—	225	210	135
Leukocytes, 1000/mm ³	5,4	6,8	5,1	4,5	4,9	—	—	7,0	5,9	—
Formula:										
Rods	5,5	3	3	6	5	—	—	6	6	—
Segments	63	60,5	55,5	64	40	—	—	64	51	—
Eosinophiles	1	3,5	2	5	3	—	—	1	2	—
Lymphocytes	26	25,5	33,5	17	47	—	—	25	35	—
Monocytes	4,5	7,5	6	8	5	—	—	4	0	—

Card 5/7

L 23281-66

ACC NR: AP6011411

K. P. Feoktistov

Sugar, mg%	82	115	133	75	100	—	85	105	70	63
Urea, mg%	21	25	35	25	31	—	47	40	—	36
Chlorine, mg%	237	250	250	225	225	—	200	225	255	230
Leukocytes, 1000/mm ³	5,2	6,1	5,1	5,4	4,2	5,1	5,4	6,8	4,8	—
Formula:	2	4,5	2,5	1	1	1,5	4,0	1,5	2	—
Rods	57	60	61,5	64	60	67,5	48	60	60	—
Segments	2	1,5	1,0	1	2	2	2	0,5	3,5	—
Eosinophiles	32	30	27	30	28	24,5	36	29,5	28,5	—
Lymphocytes	7	4	8	4	9	4,5	10	8,5	6	—
Monocytes										

B. B. Yegorov

Sugar, mg%	50	50	110	115	115	70	112	55	65	59
Urea, mg%	20	19	33	23	—	51	41	40	41	38
Chlorine, mg%	240	280	220	260	220	210	180	220	240	200
Leukocytes, 1000/mm ³	7,5	11,5	6,5	8,0	8,1	—	18,1	12,9	8,2	—
Formula:	2	3	2,5	1	3	—	0,5	1,5	2,5	—
Rods	53	50,5	51	55	43	—	35,5	62,5	51,5	—
Segments	1	3	2,5	1	4	—	2,5	1	2,5	—
Eosinophiles	37	37	30	36	43	—	58	30,5	38	—
Lymphocytes	7	6,5	8	7	7	—	5,5	4,5	5,5	—
Monocytes										

It was noted that the cosmonauts did not tolerate re-entry as well as they did centrifugation during training. This was attributed to the day-long exposure to weightlessness. None of the observed deviations

Card 6/7

L 23281-66

ACC NR: AP6011411

from normal was pathological and rapid recovery took place. Attention is brought to the individual somatic and autonomic peculiarities of the cosmonauts and their level of training. Orig. art. has: 4 tables and 2 figs. [CD]

SUB CODE: 22, 06/ SUBM DATE: 10Sep65/ ORIG REF: 010/ OTH REF: 004

ATD PRESS: 4231

Card 7/7 ULR

SOV/124-58-1-1082
Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 142 (USSR)

AUTHOR: Popov, I. G.

TITLE: On the Calculation of a System of Beams Resting on Elastic Supports
(O raschete sistemy balok na uprugikh oporakh)

PERIODICAL: Nauchn. tr. Leningr. inzh. -stroit. in-ta, 1956, Nr 23, pp 5-27

ABSTRACT: The author provides the design calculation of a system of cross beams relative to a transverse load without taking torsion into account. Systems of equations are set up, methods for the simplification of their solution are found for various particular cases that are of practical interest.

S. N. Nikiforov

Card 1/1

124-1957-10-12064

POPOV, I. G.

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 122 (USSR)

AUTHORS: Popov, I. G., Rayevskiy, A. N.

TITLE: Determination of the Stability of Some Single-layer Unrestrained Frames (Opredeleniye ustoychivosti nekotorykh odnoyarusnykh svobodnykh ram)

PERIODICAL: V sb. : 15-ya nauch. konferentsiya Leningr. inzh.-stroit. in-ta. Leningrad, 1957, pp 401-404

ABSTRACT: The Authors examine the static stability of multi-span, single-layer, unrestrained frames with unequal linear rigidity of the horizontal beams, as well as single-layer unrestrained frames of the monotonous type with vertical ties in the form of intersecting braces and loads applied at the joints. A method of solution is offered which permits the reduction of the system of uniform canonical equations, set up by the displacement method, to a single equation of the critical state from the determinant of the coefficients of the system, as is done in the general case. For this purpose, the turning angles of the frame joints are determined from the canonical equation as a function of linear displacements and substituted in the equation expressing the equality to

Card 1/2

124-1957-10-12064

Determination of the Stability of Some Single-layer (cont.)

zero sum of reactive forces in the supplementary constraint in the joints which prevent the linear displacement of the joints. The equation thus obtained is utilized to determine the critical parameter. The problem is solved by means of successive approximations for given values of the parameter.

A. F. Anishchenko

Card 2/2

124-58-9-10508

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 154 (USSR)

AUTHOR: Popov, I. G.

TITLE: On the Design Calculation of "Vertical-flat-slab" Type Buildings
(A Critical Review) [O raschete karkasno-panel'nykh zdaniy
(V poryadke obsuzhdeniya)]

PERIODICAL: Byul. tekhn. inform. Glavleningradstroy, 1957, Nr 9 pp 21-25

ABSTRACT: An investigation of the wind-load distribution between the transverse beam-and-girder frames and the vertical stiffening panels (wall slabs) of "vertical-flat-slab" type buildings. A critique is offered of the well-known calculation scheme whereby only the horizontal forces of interaction between the frames and the wall slabs are accounted for by determining them from the condition of equality of the horizontal displacements of the interconnected points. It is proposed that consideration be given also to the vertical forces arising from the interaction between the frame junctions and the outer edges of the walls connected thereto with due accounting for the longitudinal deformations of the columns of the framework. A calculation example shows that the horizontal forces of interaction, according to the calculation scheme

Card 1/2

124-58-9-10508

On the Design Calculation of "Vertical-flat-slab" Type Buildings (cont.)

proposed by the author, are found to have the same sign in every story, whereas in the calculation scheme criticized by him their sign is reversed in the upper stories; the solution in the illustrative example (Fig. 2a) contains an error.

Ya. B. L'vin

1. Structures--Design

Card 2/2

POPOV, I.G., prof., doktor tekhn. nauk.

Using the method of forces in investigating the strength of
frames. Sbor. nauch. trudov LISI no.26:7-44 '57. (MIRA 12:1)
(Structural frames)

POPOV, I.G.

Stability of flat symmetrical multistoried frames. Nauch.dokl.
vys.shkoly; stroi. no.2:79-91 '59. (MIRA 13:4)

1. Rekomendovana kafedroy stroitel'noy mekhaniki Leningrad-
skogo inzhenerno-stroitel'nogo instituta.
(Structural frames)