

IL'YASHENKO, S.M.

Bystree zvuka: O reaktivnykh dvigatelyakh (Faster
than sound: About jet engines), Voenizdat, Moscow, 1948, 56 pp;

II. YASHENKO, S.H.

Reaktivnaya tekhnika (Jet technology,) Izd DOSARM,
Moscow, 1951, 78 pp.

1
[Faint, illegible text]

247 p. (52-37877)

1952-1953

IL'YASHENKO, Sergey Mikhaylovich; USHAKOV, Mikhail Aleksandrovich, redaktor;
BOGACHEV, Y.V., redaktor; OSTRIBOV, N.S., tekhnicheskii redaktor.

[Physics] Fizika. Moskva, Vsesoiuznoe uchebno-pedagog.izd-vo trad-
reservisdat, 1955. 283 p. (MLRA 8:11)
(Physics)

IL'YASHENKO S. M.

PHASE I BOOK EXPLOITATION

585

Bondaryuk, Mikhail Makarovich and Il'yashenko, Sergey Mikhailovich

Pryamotochnyye vozdukhno-reaktivnyye dvigateli (Ramjet Engines) Moscow, Oborongis, 1958. 391 p. 10,000 copies printed.

Ed. of Publishing House: Petrova, I. A.; Tech. Ed.: Rozhin, V. P.; Reviewer: Shchetnikov, Ye. S., Doctor of Technical Sciences, Professor; Ed.: Makurov, B. V., Engineer; Managing Ed.: Sokolov, A. I.

PURPOSE: This book is intended for engineers, specialists in aircraft-engine design and for students of aviation vuzes who are acquainted with basic thermodynamics and gas dynamics.

COVERAGE: The authors state that this book is the first attempt at a generalized compilation of information indispensable for understanding the physical processes of ramjet engines (hereafter abbreviated RJE) and also for analysis of their gas dynamics and thrust. Source materials for this book included monographs and periodical articles in Soviet and foreign technical publications, and also some research work of the authors.

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combustion process, chambers may be subdivided into single-shell and double-shell types. Both kinds may be of a vortex or stable-flow type. The authors also mention electrical and compression ignition, jet-swirl and pneumatic injection, and progressive and instant mixing. There are 19 references, of which 9 are Soviet (including 3 translations) and 10 are English.

In Chapter IX, "Subsonic RJE's," the authors describe the essential features of a subsonic RJE, and define its efficiency (7 percent) on the basis of the maximum obtainable intake pressure in a subsonic flight (1.89 times the atmospheric pressure). They give a method of analysis of these engines by successive approximations, and a method of computation of thrust characteristics of a real engine. They describe the most economical operating conditions and the speed and altitude characteristics of subsonic RJE's. They also mention various applications of subsonic RJE's. There are 14 references, of which 4 are Soviet and 10 English.

Chapter X, concerns "Supersonic RJE's." With modern fuels or atomic power the speed of continuous flight will be limited by the heat resistance of materials. At speeds of $M > 6$, the temperature from friction is higher than the melting point of steels. At $M \approx 4$, the specific consumption of fuel of a supersonic RJE is lower and the efficiency higher (more than 40 percent) than for any other type of engine. Various applications of supersonic RJE's are

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variable-area nozzles. There is no possibility of improvement of fixed-area nozzles. Engines working in various operating conditions must be provided with variable-area nozzles. The large store of energy accumulated in the ionized gas of the ionosphere may eventually be utilized in RJE's by means of a catalyst or by other devices. The authors mention the Soviet scientist, Ya. B. Zel'dovich, who works in this field. The authors consider nuclear reactors for RJE's an immediate problem, and radioactive isotopes are mentioned as a possible source of energy. Beta batteries using artificial radioactive isotopes and producing electrical energy directly by radioactive decomposition are also mentioned as a potential source of energy for RJE's. At the end of the book 5 graphs of gas-dynamic functions are given:

$$\begin{aligned}
 1. \quad \tau(\lambda) &= 1 - \frac{k-1}{k+1} \lambda^2 \\
 2. \quad \pi(\lambda) &= [\tau(\lambda)]^{\frac{k}{k-1}} \\
 3. \quad \varepsilon(\lambda) &= [\tau(\lambda)]^{\frac{k}{k-1}} \\
 4. \quad q(\lambda) &= \lambda \varepsilon(\lambda) = \lambda \left(1 - \frac{k-1}{k+1} \lambda^2 \right)^{\frac{1}{k-1}} \\
 5. \quad z(\lambda) &= \lambda + \frac{1}{\lambda}
 \end{aligned}$$

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and 5 entropy diagrams of dissociated combustion products of kerosene. The authors mention the following scientists responsible for elaboration of the supersonic RJE theory: S. F. Abramovich, B. S. Stechkin, and Zhayev. In other fields Ye. S. Shchetnikov, G. I. Petrov, E. P. Ukhov, and I. A. Merkulov are mentioned.

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Start 9/17

ISAKOV, Petr Kuz'mich; KAZNEVSKIY, Viktor Pavlovich; LEVSKIY, Valeriy
Konstantinovich; RAPOPORT, Tamara Lyudvigovna; DOBROHRAVOV,
V.V., prof., retsenzent; FOMIN, N.A., prof., retsenzent;
MERKULOV, I.A., retsenzent; IL'YASHENKO, S.M., kand.tekhn.
nauk, retsenzent; VARVAROV, N.A., retsenzent; PANTELINOV,
V.G., retsenzent; GLUKHOV, V.V., retsenzent; GORODESSKIY,
L.M., red.; FURMAN, G.V., tekhred.

[Artificial earth satellites; 100 questions and answers]
Iskusstvennye sputniki zemli; 100 voprosov i otvetov. Pod
red. V.P.Kasnevsogo. Moskva, Obshchestvo po rasprostra-
nениu polit. i nauchn.snanii, 1959. 95 p. (MIRA 12:6)
(Artificial satellites)

S/147/60/000/02/010/020
E022/E407

On the Spray-Pattern of the Liquid Fuel Swirl Atomizers

kinetic pressures the length of the fully preserved position of the film increases as the air pressure decreases. At higher relative speeds of fuel or at higher pressures of the medium, the aerodynamic forces acting on the film are large and the process of disintegration of the fuel film begins immediately behind the orifice without the assistance of the capillary waves. As the pressure increases, the aerodynamic forces increase as well and the atomization becomes finer. Thus, as the pressure is increased the mean diameter of droplets at first increases, reaches a maximum (the lower the relative velocity of fuel the higher the pressure at which this maximum is reached) and then begins to decrease. The relative velocities of fuel as practised in combustion chambers are rather high, hence the higher the air density the better is the atomization. On the basis of the experimental results obtained by various investigators, the author succeeded in deriving an empirical relation of Eq (1.1) to (1.3) of which Eq (1) gives the medium diameter of droplets, Eq (1.2) the weight rate of production of droplets and Eq (1.3) the parameter of the V_c

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On the Spray-Pattern of the Liquid Fuel Swirl Atomizers

effectiveness of atomization. This parameter depends on the nature of the temperature of the fuel used, as shown in Fig 2, which agrees well with Ref 7. Next the flow of fuel from a swirl atomizer placed against the air stream (Fig 1) is analysed using the findings of Ref 11 to 13. The result is Eq (2.11) giving the range of extension of the spray. As the air pressure is increased atomization improves, droplets slow down quicker and the range of the spray diminishes. As the air temperature increases its density diminishes, hence the atomization is worse and the range of the spray increases. But as the fuel temperature is increased, its density, viscosity and surface tension diminish, atomization improves and the range of the spray decreases. As the pressure in the fuel system increases, the initial velocity of the fuel increases, atomization improves and the range of the spray decreases in spite of high initial velocity of the droplets. By increasing the diameter of the orifice of the atomizer or by reducing the swirl of the fuel, atomization becomes worse and the

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range of the spray increases. The shape of the spray in the absence of rotation ($\omega = 0$) was analysed in Ref 14. The velocity and the coordinates of the trajectories of the droplets are as given by Eq (2.12) to (2.14); from the last relation, the author deduces the value of the limiting transverse radius of the spray as given by Eq (2.16). The effect of various parameters on this limiting transverse radius is shown in Fig 5 to 8 and the graphs show good agreement with the experimental results obtained by various investigators. Fig 5 shows the effect of fuel pressure; Fig 6 the effect of the air velocity; Fig 7 the effect of the fuel temperature and Fig 8 the effect of the fuel pressure and of the orifice diameter. There are 8 figures and 14 references, 8 of which are Soviet and 6 English.

SUBMITTED: November 3, 1959

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S/147/60/000/003/009/018

E191/E481

Spray Torches of Centrifugal Atomisers (Part II)

concentration of the fuel diminishes. Referring to earlier experiments, summarised by Abramovich, G.N. ("Turbulent Free Jet of Liquids and Gases" Energoizdat, Moscow-Leningrad, 1948), the axial concentrations of admixtures to a turbulent jet are inversely proportional, whilst its radius is directly proportional to the length of the base section. In order to ignite a non-vapourising torch in the wake of the atomiser, a stabiliser must be arranged. Burning can be maintained until the mixture impinging on the stabiliser does not exceed the separation limit. Referring to earlier literature, it is shown that the separation limits can be satisfactorily predicted for relatively large atomisers. There are 8 figures and 7 references; 5 Soviet and 2 English.

SUBMITTED: January 23, 1960

Card 2/2

55616

S/147/60/000/004/008/016
E081/E235

26.1220

AUTHOR: Il'yashenko, S. M., (Moscow)

TITLE: Evaporation and Combustion of a Monopropellant
in the Chamber of a Liquid Fuelled Rocket Engine

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Aviatsionnaya tekhnika, 1960, No. 4, pp. 72-82

TEXT: On the basis of three assumptions: (1) the evapor-
ation of liquid fuel is the limiting process determining the
kinetics of combustion, the parameters of the chamber, and its
size; (2) the temperature of the combustion products is constant
along all lengths of the chamber; (3) the evaporation of liquid
fuel occurs from one end to the other at a gradually diminishing
velocity such that the drops are subjected to an acceleration
near to that of the gas, a mathematical analysis is made of the
evaporation and combustion of fuel drops in the combustion
chamber. Relations are derived and are shown graphically between
the chamber parameters and length of the combustion zone, and
between the chamber parameters and time of combustion of single
component liquid fuel. The following conclusions are drawn: (1)

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Evaporation and Combustion of a Monopropellant in the Chamber of a Liquid Fuelled Rocket Engine

On improved atomisation, that is on decreasing the mean Sauter diameter (Abstracter's note: "Sauter" diameter, not defined in the paper) of the drops, the length of the combustion zone of single-component or pre-mixed fuel in the combustion chamber decreases. If the drops are very small (diameter < 30 microns), the evaporation velocity becomes larger than the mass velocity of micro-diffusional turbulent combustion and the theory ceases to approximate to the truth. (2) With increasing growth of gas temperature on combustion, that is with increasing heat productivity of the fuel, the evaporation and combustion velocities increase according to a logarithmic law, but combustion time and the required length of chamber both decrease. (3) With increasing mass flow of liquid fuel and thermal conductivity of the gases, the evaporation and combustion velocities increase, but with the growth of heat capacity and viscosity of the gases, and density of the fuel, they decrease. (4) The calculated length of the evaporation combustion zones of drops of single-component

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Evaporation and Combustion of a Monopropellant in the Chamber of
a Liquid Fuelled Rocket Engine

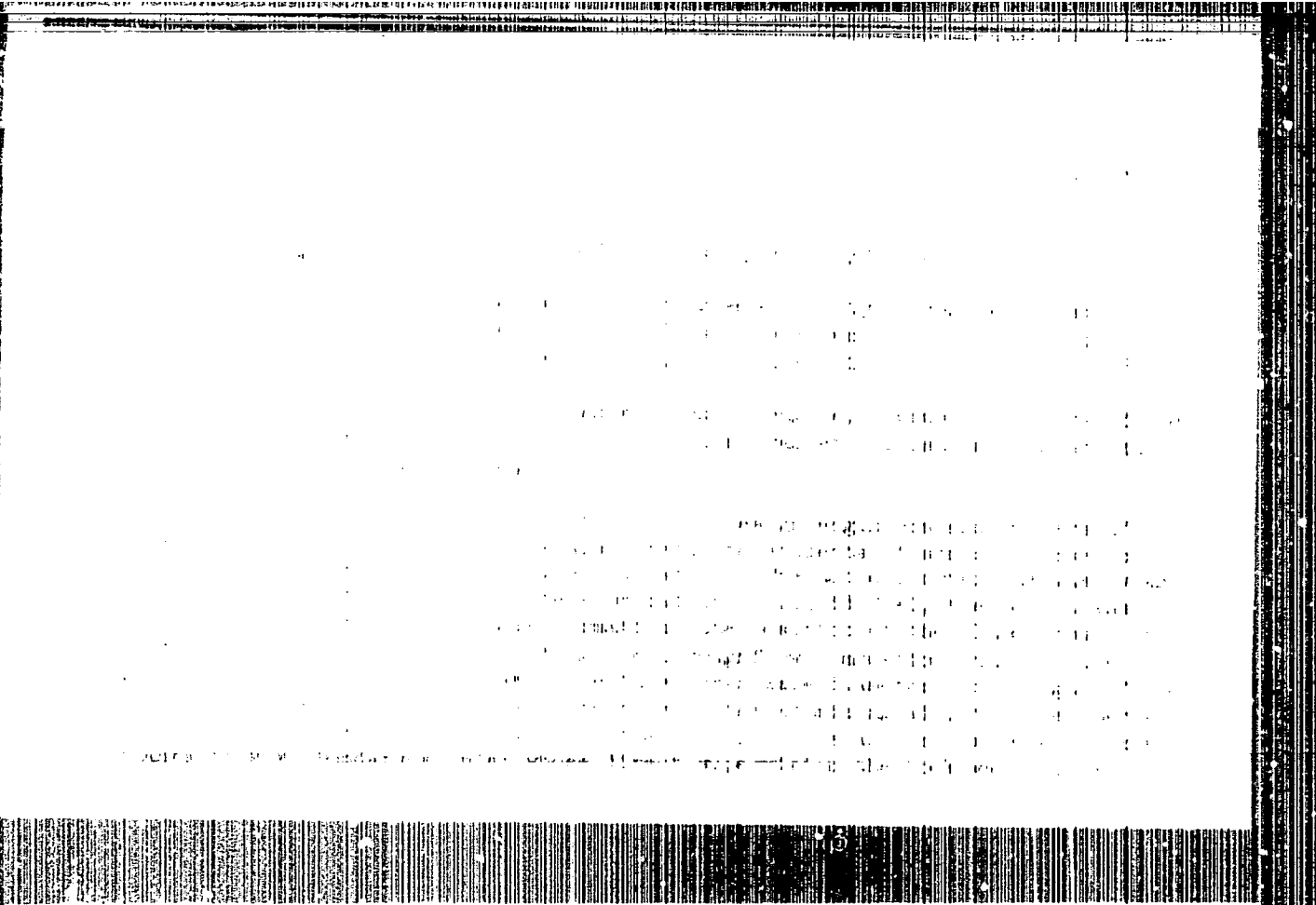
or pre-mixed liquid fuel are close to the chamber length found
empirically. There are 4 figures and 8 references: 7 Soviet
and 1 non-Soviet.

SUBMITTED: February 2, 1960

Card 3/3

IL'YASHENKO, Sergey Mikhaylovich [deceased]; TALANTOV, Aleksey Vasil'yevich; BOLGARSKIY, A.V., doktor tekhn. nauk, retsenzent; BESPALOV, I.V., kand. tekhn. nauk, retsenzent; KLYACHKO, L.A., kand. tekhn.nauk, retsenzent; CHUMACHENKO, B.N., inzh., red.; BONDARYUK, M.M., doktor tekhn. nauk, prof., red.; POPOV, A.V., red.

[Theory and design of direct-flow combustion chambers] Teoriya i raschet priamotoknykh kamer sgoraniya. Moskva, Mashinostroenie, 1964. 305 p. (MIRA 17:12)



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... contributions of ... mixtures -- 203

IL'YASHENKO, V.

IL'YASHENKO, V.

Supply and utilization of gas in Stalingrad. Gas.prom. [no.11];30-31
'57. (MIRA 10:12)

(Stalingrad--Gas)

GREYNER, Gans Rolandovich; IL'YASHENKO, Vladimir Pavlovich;
PERVUSHIN, Nikolay Nikolayevich; CHUMAYEVSKIY, Viktor
Alekseyevich; GEYNIKHS, G.K., kand.tekhn.nauk,
retsensent; SEKUNOVA, O.N., nauchn.red.; SINITSIN,
A.I., nauchn.red.; VASIL'YEVA, N.N., red.; FRUMKIN, P.S.,
tekhn. red.

[Automatic control of air pump compressor plants] Avtomati-
zatsia vozdukhnykh porshnevnykh kompressornykh ustanovok.
Moskva, Sudpromgiz, 1963. 147 p. (MIRA 16:8)
(Air compressors) (Automatic control)

ZAYTSEVA, L.L.; ILIYACHENKO, V.S.; KODAREV, E.I.; KUCHENKO, G.N.,
LIPES, I.V.; CHEBOTAREV, N.T.

Physicochemical properties of the crystal hydrates of
rare-earth sulfates of the terbium subgroup. Zhur. neorg. khim.
10 no.8:1761-1770 Ag '65.

(MIRA 1961)

1. Submitted May 5, 1964.

IL'YASHENKO, V.V.; KIRYATSEV, Kh.A., inzh.

Efficiency promotion at building sites. Izobr. i rats. 3 no.5:34-35
My '58. (MIRA 11:9)

1. Nachal'nik tekhnicheskogo otdela tresta "Nikopol'stroy" (for Il'yashenko). 2. Komissiya po ratsionalisatsii i izobretatel'stvu tresta "Nikopol'stroy" (for Kiryatsev).
(Building) (Suggestion systems)

IL'YASHENKO, V.Ya.

Senonian sediments on the right bank of the lower Amu Darya.
Trudy Uz.geol.upr. no.1:51-56 '60. (MIRA 14:8)
(Amu Darya Valley--Geology, Stratigraphic)

IL'YACHENKO, V.Ya.

Phosphorite of the Campanian and Danian stages of the lower Amu Darya.
Uch. zap. SAIGIMSa no.7:85-91 '62. (MIRA 17:2)

IL'YASHENKO, Ye.I.

Activity principle of the bias memory element. NII no.4:27-29
'63. (MIRA 16:10)

IL'YASHENKO, Ye.I.

Study of nondestructive interrogation of ordinary ferrite toroids.
NTI no.9:27-31 '63. (MIRA 16:12)

V. M. R. Rudakov, V. F. Hlyubenko, Ye. I.

... from an associative memory
... information
... retrieval, associative memory, multiple response, ordered

L 17110-45

ACCESSION NR: AP4048653

matrix. A detector is in state one if there is no correspondence between its word and the request symbol and it is in state zero if such correspondence exists. The extraction of a multiple reply is reduced to determining which detector is in state one.

ASSOCIATION: None

SUBMITTED 04 Apr 64

ENCL: 00

OUR CODE: DP

NUMBER OF: 100

OTHER: 006

2-2

RUDAKOV, V.F.; IL'YASHENKO, Ye.I.

Methods of selecting a multiple answer from an associative memory.
NTI no.6:27-36 '64. (MIRA 17:9)

IL'YASHENKO, Ye.V.

Our experience in the struggle for the title of Brigade of
Communist labor. Kozh.-obuv.prom.3 no.3:39 Nr '61.
(MIRA 14:6)

(Efficiency, Industrial)
(Kiev--Shoe industry)

IL'YASHENKO, Yu.; MUKHANOVA, N., red.

[Fruits of the land; sketches on the virgin lands]
Khleb-sol'; ocherki o tseline. Alma-Ata, Kazposliv-
izdat, 1964. 320 p. (MIRA 18:5)

YEFREMOVICH, V.A.; IL'YASHENKO, Yu.S.

Regular polygons in E^n space. Vest. Mosk. un. Ser.1: Mat., mekh.
17 no.5:18-24 S-0 '62. (MIRA 15:9)

1. Kafedra vysshey geometrii i topologii Moskovskogo
universiteta.

(Polygons)

1 2 3 4 5 6 7 8 9 10 11 12
KUNAYEV, Dzhevdat Sabirovich, kand. geologo-mineralogicheskikh nauk;
IL'YASHENKO, Yu.Ye., red.; TURUBAYEV, B., tekhn. red.

[Mineral resources of Kazakhstan] Poleznye iskopaemye Kazakhstana.
Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 148 p. (MIRA 11:5)
(Kazakhstan--Mines and mineral resources)

IL'YASHENKO, Yuriy Yevgen'yevich; OZLOV, V., red.; KLIMOVA, T., tekhn.red.

[Chronicle of the village of Soldatovo] Khronika sela Soldatova.
Moskva, Gos.izd-vo polit.lit-ry, 1960. 117 p.

(MIRA 14:3)

(Kazakhstan--Collective farms)

IL'YASHEV, A.

Shelter from air attacks for the population in suburbs. Voen. znan.
34 no.11:26-27 N '58. (MIRA 12:1)
(Air defenses)

BABKIN, I.A.; BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VOZNESENSKIY, V.V.;
DANILYUK, V.S.; ZAPOL'SKIY, G.N.; ZUBKIN, A.S.; IL'YASHEV, A.S.;
KIPRIYAN, K.M.; KONDRAT'YEV, P.V.; KORABLEV, M.D.; LEBEDEVA,
Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.; NOVICHENKO, I.P.;
POPOV, A.V.; SEREBRYAKOV, V.A.; KANEVSKAYA, M.D., red.; ANDRIANOV,
B.I., tekhn.red.

[Protecting the public from present-day means of destruction;
a textbook for organizations of the All-Union Voluntary Society for
the Promotion of the Army, Aviation, and Navy] Zashchita naselenia
ot sovremennykh sredstv porasheniia; uchebnoe posobie dlia organi-
zatsii Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii,
aviatsii i flotu. Moskva, Izd-vo DOSAAF, 1958. 334 p. (MIRA 12/4)
(Civil defense)

BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VINOGRADOV, L.V.; KOZNESEVSKIY,
V.V.; DANILYUK, V.S.; ZUEKIN, A.S.; IL'YASHIN, A.S.; KORAEV,
M.D.; LEEDEVA, Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.;
NOVICHENKO, I.P.; POPOV, A.V.; SEREBRAKOV, V.A.; VARENNIKOV,
I.S., red.; GODINER, F.Ye., red.; SORKIN, M.Z., tekhn. red.

[Protecting the population from present-day means of
destruction] Zashchita naselenia ot sovremennykh sredstv po-
razhenia; uchebnoe posobie dlia organizatsii DOSAAF. Pod ob-
shchey red. I.S.Varennikova i L.V.Vinogradova. Issl.2., perer.
i dop. Moskva, Isd-vo DOSAAF, 1962. 254 p. (MIRA 16:4)
(Civil defense)

PHASE I BOOK EXPLOITATION

SOV/6426

Bogolyubskiy, G. N., I. I. Burlinov, L. V. Vinogradov, V. V. Voznesenskiy,
V. S. Danilyuk, A. S. Zubkin, A. S. Il'yashev, M. D. Korablev, Yu. A.
Lebedeva, Yu. K. Makarov, I. P. Miroshnikov, I. P. Novichenko, A. V.
Popov, and V. A. Serebryakov

Zashchita naseleniya ot sovremennykh sredstv porazheniya; uchebnoye
posobiye dlya organizatsii DOSAAF (Protection of the Population From
Modern Means of Destruction; Handbook for DOSAAF Organizations)
2d ed., rev. and enl. Moscow, DOSAAF, 1963. 254 p. 450,000 copies
printed.

Sponsoring Agency: Vsesoyuznoye ordena krasnogo znameni Dobrovol'noye
obshchestvo sodeystviya armii, aviatsii i floty.

Eds. (Title page): I. S. Varennikov and L. V. Vinogradov; Compilers: M. D.
Korablev and Yu. A. Lebedeva; Ed.: F. Ye. Godiner; Tech. Ed.: M. Z.
Sorkin.

Card 1/1

GLEBOV, P.D., professor, doktor tekhnicheskikh nauk; PANCHENKO, S.M.,
starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk;
IL'YASHEV, G.M., mladshiy nauchnyy sotrudnik.

Investigation of the properties of cold asphalt mastic mixed with
bitumen emulsions. Izv. VNIIG 56:82-100 '56. (MIRA 10:8)
(Asphalt) (Building materials)

GLEBOV, Petr Dmitriyevich; IL'YASHEV, Grigoriy Mikhaylovich; POPCHENKO,
Sergey Nikolayevich; GIBSHKAN, I.A., red.

[Forming impervious curtains by injecting bituminous emulsions]
Ustroistvo protivofil'tratsionnykh zaves nagnetaniem bitumnykh
emul'sii. Moskva, Gos.energ.isd-vo, 1959. 44 p. (MIRA 13:3)
(Bituminous materials) (Soil percolation)

IL'YASHEV, R.

Some problems concerning improvement of commercial services in
Kazakhstan. Sov. torg. 33 no.8:12-16 Ag '59. (MIRA 12:11)

1. Ministr torgovli Kazakhskoy SSR.
(Kazakhstan--Retail trade)

IL'YASHEV, R.

We shall work with perseverance and inspiration. Obshchestv.
pit. no.12:6-8 D '61. (MIRA 16:12)

1. Ministr trgovli Kazakhskoy SSR.

ARZHANYI, P.M.; VOLKOVA, R.M.; PROKOSHKIN, D.A.; Prinsipalni uchastiyev:
PETROVA, R.V., IL'YASHEVA, N.A.,

Investigating the diffusion of silicon and titanium in niobium.
Trudy Inst. met. no.11:78-82 '62. (MIRA 16:5)
(Niobium--Metallography) (Diffusion coatings)

IL'YASHEVICH, I. K.

"Shortcomings in Organization of Delivery Service at Mail Enterprises,"
Vest. svyazi, No.8, pp 21-22, 1953

Deputy Chief, Division for Organization and Operation of the Main Post Office Admin.

Translation No. 544, 30 Apr 56

IL'YASHEVICH, Iosif Konstantinovich

[Organization of mail delivery in the mountains] Organizatsiia
dostavki korrespondentsii i pečati v gorodakh. Izd. 2., perer.
i dop. Moskva, Gos. izd-vo lit-ry po voprosam aviatsii i radio,
1959. 73 p. (MIRA 14:4)

(Postal service)

IL'YASHEVICH, I. N.

Nurseries (Horticulture)

Role of tree and fruit tree nurseries in settlements of sparsely wooded regions Les.
Khoz. 5 No. 2, 1952.

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

1. IL'YASHEVICH, I. N.
2. USSR (600)
4. Kuybyshev Province - Magnoliavine
7. Cultivation of Chinese magnoliavine in Gor'kiy Province, Les. khoz., 6, no. 3, 1953.

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

IL'YASHEVICH, V.A.; BOL'SHAKOVA, N.S., insh.; LOPES, G.S.; BIBIKOVA, T.T.,
insh.-khimik

Continuous bleaching of cotton fabrics in open width on the AO
-110 production line. Tekstil'prom. 21 no.12:37-43 D '61.

(MIRA 15:2)

1. Ispolnyayushchiy obyazannosti sveduyushchego laboratoriyey varochnootbel'nykh mashin Vsesoyuznogo nauchno-issledovatel'skogo instituta tekstil'nogo mashinostroyeniya (for Il'yashevich).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut tekstil'nogo mashinostroyeniya (for Bol'shakova).
3. Glavnyy insh. otbel'no-krasil'noy fabriki Glukhovskogo khlopchatobumashnogo kombinata imeni V.I.Lenina (for Lopes).
4. Khimicheskaya laboratoriya Glukhovskogo khlopchatobumashnogo kombinata imeni V.I.Lenina (for Bibikova).

(Bleaching)

(Assembly-line methods)

YEVGRAFOVA, M.K., inzh.; IL'YASHEVICH, V.A., inzh.; VOL'NOVA, E.G.,
nauchn. red.; BABAKOV, A.N., red.

[Continuous action equipment for the bleaching of cotton
cloth and knitted fabrics] Oborudovanie nepreryvnogo dei-
stviia dlia otbelki khlopkhatobumazhnoi tkani i trikotazh-
nogo polotna. Moskva, 1963. 39 p. (Seria III: Noveye ma-
shiny, oborudovanie i sredstva avtomatizatsii, no.67)

(MIRA 17:7)

1. Moscow. Tsentral'nyy inst'ut nauchno-tekhnicheskoy in-
formatsii po avtomatizatsii i mashinostroyeniyu. 2. Vse-
soyuznyy nauchno-issledovatel'skiy institut legkogo i
tekstil'nogo mashinostroyeniya (for Il'yashevich).

DEREVYANKIN, V.A.; NOVOZHENOV, V.M.; IL'YASHEVICH, Ye.M.; KUZNETSOV, S.I.

Effect of washing on the settling rate of red mud in alumina
production. TSvet. met. 38 no.9:55 S '65.

(MIRA 18:12)

BALANTER, Il'ya Isaakovich; BERLIN, Rafail Izrallevich; IL'YASHEVSKAYA,
Genrietta Isaakovna; KOVALEVSKAYA, A.I., red.; SATAKOVA, A.M.,
tekh. red.

[Technological planning of breweries and soft-drink plants] Te-
khnologicheskoe proektirovanie pivovarennykh zavodov i tsakhov
bezalkogol'nykh napitkov. Moskva, Pishchepromizdat, 1962.
243 p. (MIRA 15:9)

(Brewing industry)
(Soft drinks—Equipment and supplies)

IL'YASHEVSKIY, V.B., inzh.

Efficient methods for assembling wooden cooling towers.
Stroi. truboprov. 5 no.4:18-20 An '60. (MIRA 13:9)
(Cooling towers)

SAMOYLOVICH, G.D., inzh.; IL'YASHEVSKIY, V.B., inzh. (Chelyabinsk)

Improved equipment for automatic welding of sections. Stroi.
truboprov. 5 no.7:20-22 J1 '60. (MIRA 13:9)
(Pipelines--Welding)

IL'YASHVSKIY, Ya.A., inzhener.

Standard plans for farm buildings. Stroiprom.32 no.11:32-37
154. (MLRA 7:11)

1. Glavnyy konstruktor Giproset'khoz.
(Farm buildings)

IL'YASHEVSKIY, Ya. A., inzhener.

Sectional reinforced concrete girders. Det.1 zhel.-bet. no.11:
393-394 № 156. (MLRA 9:12)
(Girders) (Prestressed concrete)

~~IL'YASHVSKIY, Ya., inzh.~~

Precast reinforced concrete components to be used in farm buildings.
Gor.i sel.stroi. no.8/9:15-16 Ag-S '57. (MIRA 10:12)
(Precast concrete) (Farm buildings)

IL'YASHEVSKIY, Yakov Arenovich; KRYLOV, N.V., inzh., mashiny red.;
BUDARINA, N.M., red.isd-va; ML'KINA, N.M., tekhn.red.

[Precast concrete for farm buildings] Sbornyi zhelezobeton
v sel'skokhoziaistvennykh proizvodstvennykh postroikakh.
Moskva, Gos.isd-ve lit-ry po stroit., arkhit. i stroit.
materialam, 1959. 206 p. (MIRA 12:6)
(Precast concrete construction)
(Farm buildings)

MURASHEV, V.A., prof., doktor tekhn.nauk; MIROMOV, S.A., prof., doktor tekhn.nauk; ALEKSANDROVSKIY, S.V., kand.tekhn.nauk; TAL', K.Z., kand.tekhn.nauk; DMITRIYEV, S.A., kand.tekhn.nauk; NULIN, N.M., kand.tekhn.nauk; SIGALOV, E.Ye., kand.tekhn.nauk; NIRMIROVSKIY, Ya.M., kand.tekhn.nauk; TABENKIN, N.L., inzh. [deceased]; KALATUROV, B.A., kand.tekhn.nauk; BRAUDE, Z.I., inzh.; KRILOV, S.M., kand.tekhn.nauk; FOKIN, K.F., doktor tekhn.nauk; GUSEV, N.M., prof., doktor tekhn.nauk; YAKOVLEV, A.I., inzh.; KORENEV, B.G., prof., doktor tekhn.nauk; DERESHKOVICH, Yu.V., inzh.; MOSKVIN, V.M.; LUR'YE, L.L., inzh.; MAKARICHEV, V.V., kand.tekhn.nauk; SHEVCHENKO, V.A., inzh.; VASIL'YEV, B.F., inzh.; KOSTYUKOVSKIY, M.G., kand.tekhn.nauk; MAGARIK, I.L., inzh.; IL'YASHEVSKIY, Ya.A., inzh.; LARIKOV, A.F., inzh.; SEULOV, T.T., inzh.; TRUSOV, L.P., inzh.; LYUDKOVSKIY, I.G., kand.tekhn.nauk; POPOV, A.N., kand.tekhn.nauk; VINOGRADOV, N.M., inzh.; USHAKOV, N.A., kand.tekhn.nauk; SVERILOV, P.M., inzh.; TER-OVANEV, G.S., inzh.; GLADKOV, B.H., kand.tekhn.nauk; KOSTOCHKINA, G.V., arkh.; KUREK, N.M.; OSTROVSKIY, M.V., kand.tekhn.nauk; PEREL'SHTYIN, Z.M., inzh.; BUKSHEYN, D.I., inzh.;

(Continued on next card)

MURASHEV, V.A.--(continued) Card 2.

MIKHAYLOV, V.G., kand.tekhn.nauk; SIGALOV, E.Ye., kand.tekhn.nauk;
GVOZDEV, A.A., prof., retsenzent; MIKHAYLOV, V.V., prof., retsen-
sent; PASTERNAK, P.L., prof., retsenzent; SHUBIN, K.A., inzh.,
retsenzent; TEMKIN, L.Ye., inzh., nauchnyy red.; KOTIK, B.A., red.
izd-va; GORYACHEVA, T.V., red.isd-va; MEDVEDEV, I.Ya., tekhn.red.

[Handbook for designers] Spravochnik proektirovshchika. Pod ob-
shchei red. V.I.Murasheva. Moskva, Gos.isd-vo lit-ry po stroit.,
arkhit. i stroit.materialam. Vol.5. [Precast reinforced concrete
construction elements] Sbornye zhelezobetonnye konstruksii.
1959. 603 p. (MIRA 12:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledo-
vatel'skiy institut betona i zhelezobetona, Perovo. 2. Daystvitel'-
nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Murashev,
Gvozdev, Mikhaylov, V.V., Pasternak, Shubin). 3. Chlen-korresp. Aka-
demii stroitel'stva i arkhitektury SSSR (for Mironov, Gusev, Moskvin,
Kurek).

(Precast concrete construction).

ARKHANGEL'SKIY, P.Ye.; BERNSHTEYN, A.M.; BYKOV, M.A.; DLUGIACH, M.L.;
IL'YASHINSKIY, Ya.A.; KIRILLOV, A.A.; KOZLOVSKIY, A.S.; KRYLOV,
H.V.; LESOV, N.M.; MARTYNOV, P.T.; NIKANDROV, B.I.; PARUNIN,
V.Ye.; RUDANOV, M.L.; SINYAKOV, V.K.; PAL'KNER, O.G.; PETRYAKOV,
A.I., red.; BALLOD, A.I., tekhn.red.

[Manual on the construction of farm buildings] Spravochnik po
sel'skokhoziaistvennomu stroitel'stvu. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1960. 704 p.

(Farm buildings)

(MIRA 13:12)

IL'YASHOV, V. P.

AID P - 2967

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 17/35
Author : Il'yashov, V. P., Eng.
Title : Curves for the computation of maximum current protections
Periodical : Energetik, 5, 22-23, My 1955
Abstract : The author presents computing graphs which he built for the ET-520 and IT-80 type relays. He gives examples of computation. Two diagrams.
Institution : None
Submitted : No date

IL'YASHOV, Ye.F.

Schematic of the changeover of a physical circuit to a voice-frequency telegraphy channel. Avtom., telem. i svyaz' 8 no.11: 36-37 N '64. (MIRA 17:12)

1. Starshiy elektromekhanik Leningrad-Vitebskoy distanttsii Oktyabr'skoy dorogi.

IL'YASEUK, M.I.

Prevention of the softening of cucumbers during pickling (from
"Agricultural research," Dec., 1959). Kons.i ov.prom. 15 no.8:43
Ag '60. (MIRA 13:8)

(Cucumbers)

IL YASHUK, N. D.

25

Dyeing knitted fabric with indigo. N. D. Il'yashuk and Yu. A. Karpov. Russ. 67, 1940, Sept. 30. The knitted fabric is mtd. with indigo dye and wound on a drum. The drum is rotated for some time to effect uniform distribution of the dye, and the dye is then fixed in the usual manner.

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	INDUSTRY	SECTION	SUBSECTION	CLASSIFICATION	INDEX	REMARKS

IL'YASHUK. M.D., inzhener.

Removing oil spots and stains from knitted fabrics. Log. prom. 14 no. 4:
28-31. Ap '54. (MIRA 7:6)
(Spotting (Cleaning))

IL'YASHUK, N. D., Engineer

"An Investigation in the Field of Vacuum Dyeing." Cand Tech Sci,
Moscow Textile Inst, 20 January 1955. (VM, 11 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

IL'YASHUK, N. D.

Category: USSR / Physical Chemistry - Surface phenomena. Adsorption.
Chromatography. Ion exchange

B-13

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30188

Author : Lipatov S. M., Il'yashuk N. D.

Inst : not given

Title : Effect of Vacuum on Sorption of Dyes by Fibers

Orig Pub: Kolloid. zh., 1956, 18, No 5, 562-565

Abstract: In a specially designed apparatus a study was made of the sorption of dyestuffs (:) by fibers, in vacuum. It is shown that under conditions of a vacuum the sorption proceeds much more rapidly than under ordinary conditions, while the equilibrium state is the same in both instances. Experiments confirm the point of view of the authors, to the effect that under ordinary conditions the fibrous material contains air in sorbed and inclosed condition and therefore penetration of D inside the fiber is determined by competition of the molecules of air and D for space at the surface of the sor-

Card : 1/2

-8-

IL'YASHUK, N.D., kand. tekhn. nauk

Vacuum dyeing of textile materials. Tekst. prom. 19 no.7:65-67
Jl '59. (MIRA 12:11)
(Dyes and Dyeing-Apparatus)

IL'YASHUK, N.D., kand.tekhn.nauk

VAKT-50 Vacuum dyeing apparatus. Tekst.prom. 19 no.10;
57-59 0 '59. (MIRA 13:1)
(Dyes and dyeing--Apparatus)

IL'YASHUK, N.; GRUSHIN, M.; SEMCHENKO, B.

Apparatus "Perun-three-15." Prom.koop. 14 no.7:16-17
Jl '60. (MIRA 1388)

1. Sotrudniki Nauchno-issledovatel'skogo tekhnokhimicheskogo
instituta Rospromsoveta.
(Cleaning and dyeing industry)

IL'YASHUK, N.; BUZINA, Z., inzh.

The raincoat is waterproof again. Mest.prom.i khud.promys. 2
no.1:34 Ja '61. (MIRA 14:4)

1. Zaveduyushchiy laboratoriyey Nauchno-issledovatel'skogo tekhnokhimicheskogo instituta (for Il'yashuk).
(Waterproofing of fabrics)

~~IL'YASHUK, Nikolay Davidovich; TROSHCHENKO, Mariana Aleksandrovna;~~
GOLUBEVA, Aneta Mikhaylovna; ZLATOVEROV, B.S., red.;
TRUSOV, N.S., tekhn. red.

[Technology of the chemical cleaning and dyeing of garments]
Tekhnologiya khimicheskoi chistki i krasheniia odezhdy. Mo-
slva. Gosytizdat, 1963. 185 p. (MIRA 17:2)

IL'YASHUK, N.D., kand.tekhn.nauk; BUZINA, Z.S.

Impregnation of cotton raincoats with water-repellent compositions.
Trudy NITKHI no.1:66-80 '62. (MIRA 17:4)

112-57-8-17974

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 8,
pp 306-307 (USSR)

AUTHOR: Il'yashuk, Yu. M.

TITLE: Noise-Study Instruments Developed by LIOT (Prilozheniya dlya
issledovaniya shuma, razrabotannyye LIOT)

PERIODICAL: Tr. Nauch. sessii Vses. n.-i. in-t okhrany truda (Transactions
of the Scientific Session of the All-Union Scientific-Research Labor-
Protection Institute), 1954, Nr 3, Leningrad, 1955, pp 82-102

ABSTRACT: The Leningrad Labor-Protection Institute (LIOT) has developed
instruments for measuring and analyzing noise. In 1949, a noise meter was
developed known as "ShLIOT with a loudness scale." Its noise-measuring
range is: intensity level, 35 to 130 db; volume, 35 to 130 phons; loudness
in natural-scale units, 0.5 to 5,000. The noise meter is battery supplied.
Its weight is about 8 kg, and it is convenient and reliable in operation.
It can be used for measuring mechanical vibration by means of a piezo-
electric vibration pickup. In 1953, another noise meter was developed
known as "Inspektorskiy Shi-53" (Inspector-type Shi-53). (In 1956, it
will be manufactured by the industry as type Shi-1.) This noise meter

Card 1/2

USSR/ Electronics - Sound measuring

Card 1/1 Pub. 89 - 29/30

Author : Il'yashuk, Yu.

Title : Instrument for measuring the loudness of noise

Periodical : Radio 3, 62 - 63, Mar 1955

Abstract : An analysis is made of the principles of the M-3 noise meter, which was developed in the All-Union Scientific Research Institute for the Protection of Labor, to be used in the study of noise in industry with a view to its elimination. The instrument has small dimensions (200 x 15 x 110 mm) and a range from 50 to 140 db, besides being simple in operation. Drawing.

Institution:

Submitted :

IL'YASHUK, Yu.M., inzhener.

~~_____~~
Quiet workshops. Zdorov's 1 no.7:14-15 '55

(MIRA 9:5)

(NOISE)

LIABUM, T. M.

"A Portable 1/3-Octave Bandpass Spectrometer."

Paper presented at thte 4th all-Union Conf. on Acoustics, Moscow, 26 May - Jun 58.

BOV/58-59-4-9075

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 4, p 243 (USSR)

AUTHOR: Il'yashuk Yu.M.

TITLE: New Instrument for Noise Frequency Analysis

PERIODICAL: Byul. naučno-tekhn. inform. po okhrane tryda, 1958, Nr 1, pp 53 - 62

ABSTRACT: The author describes a noise analyzer of the ASH-2-LION²⁸ type with 1/3-octave bands. A cut of the filter frequency characteristics is 60 db per octave. The instrument is provided with a semi-automatic filter switch controlled by one hand, as well as a frequency scale with range brightening. The dimensions of the analyzer are as follows: 333 x 216 x 165 mm; weight: 8 kg. The pointer indicator has a dynamic range of 20 db. The author submits diagrams and photographs of the instrument as a whole and of its components. (NII okhrany Truda VTsSPS, Leningrad, USSR).

Card 1/1

Ilyashuk, Yu. M.

1958

1. Ilyashuk, Yu. M., Laboratory for the Study of the Dynamics of the Motion of a Particle in a Liquid Mixture, Preprint No. 1958-10, Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow, 1958.

1. Following are titles and authors of some of the papers to be presented at subject Congress:

- 1. Ilyashuk, Yu. M., Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow - "Thermodynamic cylindrical trajectories of a particle in a liquid mixture."
- 2. Ilyashuk, Yu. M., Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow - "Some questions of non-linear acoustics."
- 3. Ilyashuk, Yu. M., and G. M. Zakharenko, B. S., Laboratory for Molecular Acoustics, Moscow Oblast Institute for Pedagogical Research - "The dispersion in a liquid mixture, the components of which form a chemical compound."
- 4. Ilyashuk, Yu. M., Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow - "The local analysis of clicks following in rapid succession and their loudness characteristics."
- 5. Ilyashuk, Yu. M., Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow - "The regulation of the activity of the auditory system."
- 6. Ilyashuk, Yu. M., Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow - "The statistical reverberation theory."
- 7. Ilyashuk, Yu. M., Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow - "Study of acoustically exact sound transmission from terraces."
- 8. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "Acoustic waves in a liquid mixture." - "The Laboratory for the Study of the Dynamics of the Motion of a Particle in a Liquid Mixture."
- 9. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."
- 10. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."
- 11. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."
- 12. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."
- 13. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."
- 14. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."
- 15. Ilyashuk, Yu. M., Institute of Physics of the Academy of Sciences, Moscow - "The measurement of the sound pressure level in a liquid mixture."

Materials from the Program and Registration Card are to be submitted for the 1958-10, Institute for Problems in Mechanics, USSR Academy of Sciences, Moscow, 1958.

S/194/62/000/001/050/066
D201/D305

AUTHOR: Il'yashuk, Yu. M.

TITLE: Dynamic characteristics of noise frequency spectrum analyzers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-7-55d (Sb. nauchn. rabot in-tov okhrany truda VTsSPS, 1960, no. 3, 72-79)

TEXT: The analysis of frequency spectra of noise by means of narrow band, manually tuned analyzers is cumbersome and of dubious value. Because of this the normally used analyzers work in conjunction with automatic recorders. In order to have a constant spectrogram scale the rates of revolution of the analyzer tuning shaft and that of the shaft of the tape moving mechanism are synchronized. The frequency characteristics obtained with continuous analyzer tuning are determined not only by the filter parameters, but also on the speed of the analysis. Such a characteristic, called dynamic, may differ considerably from the static one. The effect of

Card 1/2

Dynamic characteristics of ...

S/194/62/000/001/050/066
D201/D305

special features of instruments on the speed of analysis is considered and a rational system of mechanical drive of automatic analyzers is given: The analyzer and recorder shafts are connected by a normal transmission and this coupled system is revolved at a varying speed by a reduction gear having a continuously varying ratio or by a controlled speed motor. The analysis time of such an analyzer is minimum and remains constant within the whole of the operating range. 3 references. /-Abstracter's note: Complete translation. ✓

Card 2/2

IL'YASHUK, Yu.M.; RAUKHVARGER, Z.O., red.; BOBYLEVA, M.I., red.;
NIKOLAYEV, M.A., otv. red.; SEMENOV, A.G., tekhn. red.

[Methodological manual for the measurement and technical
normaliza of noise in industrial equipment] Metodicheskoe
rukovodstvo po izmereniyu i tekhnicheskomu normirovaniyu
shuma proizvodstvennogo-oborudovaniya. Leningrad, 1962.
64 p. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany
truda.

(Industrial equipment--Noise)

IL' YASHCHUK, Yu. M.,

"Investigation of Methods for the Measurement of Commercial Noise and Ways of Improving the Quality" Dissertation for the Degree of Candidate of Sciences, Leningrad Electrotechnic Inst. of Communication im. M. A. Bonch-Bruyevich. Defense held on 10 May 1962.

A classification for noise is defined, and errors in the measurement of noise level are determined. Features of different types of frequency analyzers are considered. It is shown that for identical tolerances for the discrepancy between the dynamic and static characteristics of a narrow-band analyzer, the greatest speed of analysis can be obtained in a heterodyne analyzer with linear frequency scale.

Izv Vysshikh ucheb. zaved. MVISSO SSSR po razdelu Radiotekhnika, vol. 6, No. 1, 1963 p. 98-102 (original checked--Cand. of Sciences as in original.)

IL'YASHYK, S.I.

Work of the Mogilev Provincial Medical Commission for the
Evaluation of Workers' Disability. Zdrav. Bel. 9 no.1:14-15
J'63. (MIRA 16:8)

1. Predsedatel' Mogilevskoy oblastnoy vrachebno-trudovoy
ekspertnoy komissii.
(MOGILEV PROVINCE--DISABILITY EVALUATION)

BIKTASHEV, Ch.F.; MUYASOV, A.A.; MAMATOV, K.N.

Innovations introduced in the Subkhangulovo Regional Petroleum-
pipeline Administration. Transp. i khren. nefti i nefteprod. no.7:
23-28 '62. (MIRA 17:8)

IL'YASOV, A. I.

21063 Gershenovich, R.S. i Il'iasov, A.I. Penitsillin v pediatrii (Lit. dozor) Voprosu pediatrii i okhrany materinstva i detstva, 1949, vyp. 3, s. 59-64.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

IL'YASOV, A. I.

"A Study of the State of Bone-Marrow Hemopoiesis and the Peripheral Blood
in Children During Pneumonia." Cand Med Sci, Tashkent State Medical Inst,
5 Jan 55. (PV, 26 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

~~IL'YASOV, A.I.~~

GERSHENOVICH, R.S.; IL'YASOV, A.I.; NURIDDINOV, M.P.

Hematological characteristic of toxic forms of pneumonia in
children. *Pediatrics* no.9:15-19 S '57. (MIRA 10:12)

1. Iz kliniki gosptal'noy pediatrii (dir. - nauluzhennyi deyatel'
nauki prof. R.S.Gershenovich) Tashkentskogo meditsinskogo instituta
(PNEUMONIA) (BLOOD--EXAMINATION)

5(1)
AUTHORS: Burlachenko, I. I., Kulik, A. A., SOV/64-58-8-14/19
Poznyakova, T. H., Il'yasov, A. I.

TITLE: Exchange of Experience - Experience in Using Liquid Nitrogenous
Fertilizers (Obmen opytom. Opyt primeneniya zhidkikh
azotnykh udobreniy)

PERIODICAL: Khimicheskaya promyshlennost', 1958, Nr 8,
pp 492 - 494 (USSR)

ABSTRACT: In several Republics of the USSR, as in Uzbekistan and
Kazakhstan, tests were started in the spring of 1956 on
the use of liquid fertilizers. The UzSSR and KazSSR intended
to use liquid ammonia and the ammoniate "A" (NH_4NO_3
64-67%, NH_3 14 - 17%, H_2O 16 - 22%, N_2 total 34-37%) on
cotton plantations of an area of 5000 hectares. The Kombinat
referred to in the Association was responsible both for
the production and the technical aspects of the transportation
of the liquid nitrogenous fertilizer. Ammonia tanks ATs-150
(on the chassis of the truck ZIS-150 with 2 cu.m.capacity,

Card 1/3

Exchange of Experiences - Experiences in Using
Nitrogenous Fertilizers

Liquid

SOV/64-50-8-10/19

1350 kg ammonia, weight 1300 kg, 20 atmospheres) and the mobile tank ATsA-63 (on the chassis of a GAZ-63 truck; 2 cu. m., 2 t ammoniate, 2 atmospheres) were used, the latter for ammoniate. Both types showed a few shortcomings. The spraying of ammoniate was done by a Soviet machine PUA-1 and imported American machines. The former proved to be more efficient, though the tanks were too small. The results of tests conducted to establish the amount of energy needed for distributing liquid fertilizer (Table 1) and the effects of fertilizing (Table 2) are given in the article. Apart from the savings in the number of workers effected by the use of liquid fertilizers instead of ammonium nitrate (0.2 - 0.3 workers per day instead of 0.7), a further saving of 40 roubles per hectare is possible, as was found by the Ministerstvo sel'skogo khozyaystva respublik (Ministry of Agriculture of the Republic). The cost price of 1 kg of nitrogen in the form of ammonia is 35% lower than with ammonium nitrate. According to the GIAP, capital investment for the construction of a 100000 t annual capacity ammonia plant is 100-110 million rbl. lower than for a similar

Card 2/3

Exchange of Experience — Experience in Using Liquid
Nitrogenous Fertilizers

SOV/64-36-8-10/19

ammonium nitrate manufacturing plant. In 1957 experiments with liquid fertilizers were expanded considerably; gasoline tanks ATs-3800 were used for transporting ammonia and ammoniate. Moreover, the American machines mentioned above were modified. There are 3 tables.

ASSOCIATION: Chirchikskiy elektrokhimicheskiy kombinat im. I. V. Stalina
(Chirchik Electro-Chemical Kombinat imeni I. V. Stalin)

Card 3/3

NABIYEV, M.N.; PALETSKIY, G.V.; ANISIMKIN, I.G.; REBENKO, M.; KALININ, Ye.P.;
TROPIMOV, S.M.; VURGAFT, G.V.; POPOV, V.S.; KOROL', P.Z.;
KULIK, A.A.; KAL'MAN, L.A.; FARBER, S.I.; MATVEYVA, N.Ye.;
GAVRILOV, V.S.; KADYROV, V.K.; IL'YASOV, A.I.; YAKUBOV, S.G.;
PROSKURIN, M.P.; NESTERENKO, A.P.; DEZHNEV, M.D.; KOCHEROV, V.,
red.; POPOV, V., red.; SALAKHUTDINOVA, A., tekhn. red.

[Chirchik, a city of major industrial chemical complexes]
Chirchik - gorod bol'shoi khimii. Tashkent, Gosizdat UzSSR,
1962. 82 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii nauk UzSSR (for Nabiyeu).
2. Rabotniki Chirchikskogo elektrokhimkombinata (for all
except Nabiyeu, Kocherov, Popov, V., Salakhutdinova).
(Chirchik—Chemical plants)

NABIYEV, M.N., akademik; IBRAGIMOVA, U.I.; IL'YASOV, A.I.; RUBO, V.M.;
NOVIKOVA, F.V.; GLAGOLEV, Ye.D.; GLAGOLEVA, A.F.; EYDEL'MAN, A.S.,
red.

[Liquid mixed fertilizers produced by treating phosphates with
nitric acid] Zhidkie slozhnye duobreniia na osnove azotnokislotoi
pererabotki fosfatov. Tashkent, Izd-vo "Nauka" UzSSR, 1965.
402 p. (MIRA 18:8)

1. AN UzbekSSR (for Nabiyeu). 2. Institut khimii AN UzbekSSR
(for Ibragimova). 3. Chirchiskiy elektrokhimicheskiy kombinat
(for Il'yasov).

IL'YASOV, A. T.

"Spring Floods in the Small Rivers of Tartary." Sub 12 Jun 51,
Central Inst of Weather Forecasting.

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SO : Sum. No. 480, 9 May 55

IL'YASOV, A. T.

USSR/Hydrology - Infiltration

1 Jul 51

"Infiltration of Melted Waters Under Conditions of Chernozem and Podzol Soils," A. T. Il'yasov, Kazan Affiliate, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXIX, No 1, pp 61-64

Water infiltration depends mainly on nature of soil. As example, data on Meshi River (podzol) and Stegany Zay River (chernozem) are compiled. Graphs for both regions are drawn based on the eq $Q_{\text{melted water}} = Q_{\text{snow water}} - Q_{\text{water losses}}$. Presented by Acad L. I. Prasolov 3 May 51.

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IL'YASOV A. T.

Kuybyshev region - rivers

Studying small rivers in the Kuybyshev reservoir zone with the objective of using them for transport. Rech. transp. 12 No. 3, 1952.

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