

KURUSHIN, Yu.M.; MEW', A.M.

Determining short-range order parameters for three-component
spinel. Fiz. met. i metalloved. 15 no.2:161-165 F '63.
(MIRA 16:4)

1. Ural'skiy lesotekhnicheskiy institut i Institut metallurgii
Ural'skogo filiala Akademii nauk SSSR.
(Spinel group) (Crystal lattices)

KURUSHIN, F. M.

Machinery and tools used in tree planting for field protective shelter belts. Moskva, Goslesbumizdat, 1949. 113 p. (51-37022)

SD409.K8

DA

KURUSHIN, F.M.

36355 Mekhanizatsiya lesokul'tufnykh rabot na peskakh. Les 1 step', 1949,
No. 6, S. 68-72

SO: Letopis' Zhurnal' nykh Statey, No. 49, 1949

KURUSHIN, F. M.

Forestry Engineering

Results of the forest cultivators' contest, Les. khoz. 5 No. 3 (42), 1952

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

KURUSHIN, F. M.; RUSANOV, J. G.

Forest Management

Mechanization of care of forest stock. Les khoz. 5 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ¹⁹⁵² September 1953, Unclassified.

KURUSHIN, F.

"Results of the Forest Cultivators' Contest" Tr. from the Russian. p. 115,
(POLANA, Vol. 9, no. 5, May 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

~~KURUSHIN, Faust Mikhaylovich; RUSANOV, Sergey Gavrilovich; FEDOROV, P.F.,~~
redaktor; SVETLAYEVA, A.S., redaktor izdatel'stva; BOCHURINA, A.M.,
tekhnicheskiy redaktor

[Mechanized care of seedbeds and plantations in forestry] Mekhani-
zatsiya ukhoda za posadkami i posevami v lesnom khozyaystve. Moskva,
Goslesbumizdat, 1956. 47 p. (MIRA 10:4)
(Forests and forestry--Equipment and supplies)

ZIMA, Ivan Mitrofanovich; MALYUGIN, Timofey Timofeyevich; KURUSHIN, F.M.,
retsensent; ASHEULOV, Ye.A., retsensent; VLASOV, Ye.I., red.;
FUKS, Ye.A., red.izd-va; PARAKHINA, N.L., tekhn.red.

[Mechanization of silvicultural operations] Mekhanizatsiia
lesokhoziaistvennykh rabot. Moskva, Goslesbumizdat, 1960.
563 p. (MIRA 14:1)
(Forests and forestry--Equipment and supplies)

ACC NR: AT6022202

SOURCE CODE: UR/0000/66/000/000/0094/0097

AUTHOR: Kurushin, Ye. P.

ORG: none

TITLE: The weighting function for a waveguide partially filled with a ferrite and a dielectric

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya kvantovoy elektroniki. Doklady. Moscow, 1966, 94-97

TOPIC TAGS: rectangular waveguide, waveguide propagation, dielectric layer waveguide, wave function

ABSTRACT: The cross section of a rectangular waveguide partially filled to the left of the x axis with a ferrite material and a dielectric is shown in figure 1. Using boundary conditions, Green's function for the electrical field is derived:

$$\Gamma(x, x_0) = -4\pi \frac{(ax \cos xx - k \sin xx) \sin x(x_0 - a)}{x \cos x(x_0 - a) \{ [ax + k \operatorname{tg} x(x_0 - a)] \cos xx_0 - [k - ax \operatorname{tg} x(x_0 - a)] \sin xx_0 \}} \quad (1)$$

$x < x_0.$

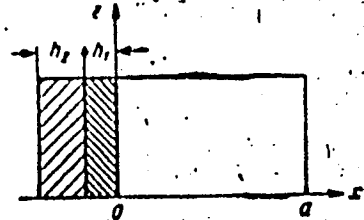


Fig. 1

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ACC NR: AT6022282

where

$$\alpha^{-1} = Y_0 + \frac{i w_1 \sin \alpha_1 h_1 + (Y_2 - Y_0) \cos \alpha_1 h_1}{\cos \alpha_1 h_1 + i w_1 (Y_2 - Y_0) \sin \alpha_1 h_1}$$

and

$$Y_0 = \frac{i \alpha \mu_a}{k \mu_{\perp}^2}; \quad Y_2 = i w_2 \operatorname{ctg} \alpha_2 h_2;$$

$$w_1 = \sqrt{\frac{\mu_{\perp}}{\epsilon_{\phi} - \frac{\sigma^2}{(k \mu_{\perp})^2}}}, \quad w_2 = \sqrt{\frac{\mu_g}{\epsilon_g - \frac{\sigma^2}{(k \mu_g)^2}}};$$

$$\alpha_1^2 = k^2 \epsilon_{\phi} \mu_{\perp} - \sigma^2, \quad \alpha_2^2 = k^2 \epsilon_g \mu_g - \sigma^2;$$

h_1, h_2 are the thicknesses of the ferrite and the dielectric layers, respectively, μ, μ_a are the tensor components of the permeability $\|\mu\|$:

$$\mu_{\perp} = \mu - \frac{\mu_a^2}{\mu}; \quad k = \frac{2\pi}{\lambda};$$

$\epsilon_{\phi}, \epsilon_g$ are the dielectric constants of the ferrite and the dielectric layers, respectively. For the special case when $\alpha_0 \rightarrow 0$, i. e., the boundary coincides with the sur-

Card 2/3

ACC NR: AT6022282

face of the ferrite layer, E_z can be derived from (1) using inverse Fourier transform,

$$E_z = -2 \int_{-\infty}^{\infty} \frac{a \sin x (x - a) e^{-iay} d\sigma}{\cos xa (ax + k t g u a)}$$

Orig. art. has: 1 figure, 7 formulas.

SUB CODE: 20,12,09/ SUBM DATE: 11Apr66/ ORIG REF: 003/ OTH REF: 002

Card 3/3

L 62258-65 ENT(1)/EEC-4/EWA(h)

ACCESSION NR: AR 004626

S/0274/64/000/011/A068/A068

621.317.34

33
B

SOURCE: Ref. zh. Radiotekhn. i elektrosvyaz'. Sv. t., Abs. 11A375

AUTHOR: Koshkin, L. I.; Kurushin, Ye. P.; Shcheglov, O. S.; Hedovesov, V. N.

TITLE: Calculation and investigation of electromagnetic fields in the ferrite-dielectric-loaded waveguides

CITED SOURCE: Uch. zap. Kuybyshevsk. gos. ped. in-t, vyp. 42, 1964, 75-80

TOPIC TAGS: waveguide, ferrite loaded waveguide 25

TRANSLATION: An experimental method is suggested for finding the field configuration in the waveguides with ferrite slugs of arbitrary shapes. A lossy probe is introduced in the waveguide; the probe movement causes a variation in the waveguide transfer ratio proportional to the square of the tangential field component at the point of location of the probe. The probe shape and size depend on the mode. Results are cited of a verification of the method on the waveguide with a known field distribution; high accuracy is noted. An outfit for accurate measurement of low losses is described. Bibliography: 5 titles.

Card 1/1 ^{dm} SUB CODE: EG

ENCL: 00

L 33190-66 EWT(1)/EWI(m)/EWP(t)/EIL IJP(c) JD/AT

ACC NR: ARG016169

SOURCE CODE: UR/0058/65/000/011/DO03/DO03

AUTHORS: Druzhinin, V. V.; Kurushin, Yu. N.; Men', A. N.; Meysk, V. Ye.; Nikiforov, A. Ye.; Cherepanov, V. I.

TITLE: Contribution to the theory of energy spectra of ^{2/}paramagnetic ions in certain oxides

SOURCE: Ref. zh. Fizika, Abs. 11D16

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 514-519

TOPIC TAGS: paramagnetic ion, spectrum, *ION ENERGY*

ABSTRACT: Calculations are presented of the energy spectrum of a paramagnetic ion in a crystal with spinel structure in the approximation of the average intracrystal-line field. It is shown that allowance for the field due to the second and farther neighbors can exert an appreciable influence on the interpretation of the spectra of such ions. Quantitative calculation results are presented for Cr³⁺ in MgAl₂O₄ and experimental data on this ion. [Translation of abstract]

SUB CODE: 20

Card 1/1 MC

L 14624-66 EWT(1)

ACC NR: AP5025303

SOURCE CODE: UR/0051/65/019/004/0586/0596

AUTHOR: Men', A.N.; Sokolov, A.V.; Zvezdina, N.A.; Kurushin, Yu. N.;
Nekoshnov, B.M.; Chudakov, V.S.

45
B

ORG: none

TITLE: Determination of the energy spectrum of an impurity ion with an unfilled d-shell in a crystal

21.11.55

SOURCE: Optika i spektroskopiya, v. 19, no. 4, 1965, 586-596

TOPIC TAGS: crystal impurity, EPR spectrum, line splitting

ABSTRACT: The interpretation of energy spectra and EPR spectra of ions in various crystals requires the solution of a secular equation which takes into account the configuration of the ion and the symmetry of the intracrystalline field. In this paper, tables of matrix elements have been compiled which make it possible to write a secular equation at once for any term of any configuration in the case of an impurity ion with an unfilled d shell. These tables can also be used in studying EPR spectra if the field of lower symmetry produces a splitting comparable in order of magnitude to other perturbations (spin-orbital and exchange perturbations, etc.). As an example, the splitting of the principal card 1/2

UDC: 539.184.2:548.0.001.1

L 14624-66
ACC NR: AP5025303

terms D and F in fields of variable symmetry was analyzed. Data on the optical spectra of Cr^{3+} in MgAl_2O_4 make it possible to determine local distortions caused by Cr^{3+} ion which replaces Al^{3+} ion at the octahedral sites of spinel. The data obtained are in good agreement with the experiment. Orig. art. has: 7 tables and 6 formulas.

SUB CODE: 20 / SUBM DATE: 28May64 / ORIG: 005 / OTH REF: 004

TS
card 2/2

KURUSHINA, M. S.

"Innervation of the Posterior-Tibial Artery," Khirurgiya, No.6, 1948

Chair of Normal Anatomy, 2nd Moscow Med. Inst.

KURUSHINA, M.Ya., red.; KOSHLIYEV, G.M., tekhn. red.

[Programs on the geography of the Turkmen S.S.R.] Program-
my po geografii Turkmenskoi SSR. Ashkhabad, Turkemnuchpedgiz,
1962. 17 p. (MIRA 16:4)

1. Turkmen S.S.R. Ministerstvo narodnogo obrazovaniya.
(Turkmenistan--Geography)

KURUSHINA, T.M.

USSR /Microbiology. Medical and Veterinary
Microbiology.

F-6

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35785

Author : Glukhovtsev, B.V.; Kurushina, T.M.; Maslova, G.V.

Title : Characteristics of the Yeast Flora in Various
Skin Infections

Orig Pub: V. sb: Eksperim. i klinich. issledovaniia II, L,
Medgiz, 1956, 335-336

Abstract: 6232 examinations of persons sick with various forms of skin diseases were conducted. In 306 cases various yeasts, primarily *C.albicans* (118 cases), and other representatives of the genus *Candida* (76 cases) were isolated. In 1% of the positive cases fungi of the specie *Trichosporon* were isolated. A supposition is expressed about the identity of *Trichosporon* and *Geotrichoides*.

Card 1/1

MORUSHINA, Valya

That's how it should be... IUn. not. co. 11.10.12

MIA

1. Lukhs kaya 11-letnyaya shkola, Ivanovskaya oblast'.
(Wood control)

KURUSZ, J.

Nervous relationship in the pathology of pulmonary tuberculosis.
Acta morph. hung. Suppl. no.4:7-10 1954.

1. State Tuberculosis Institute, Budapest.
(TUBERCULOSIS, PULMONARY, physiol.
CNS)
(CENTRAL NERVOUS SYSTEM, in various dis.
tuberc., pulm.)

3/881/57/000/001/007/013
A066/A126

24,6500

AUTHORS: Kuruts, I.Yu., Tarabiy, M.I., Shkoda-Ul'yanov, V.A.

TITLE: The influence exerted by the width of the resonance range on the total cross sections of γ n-reactions determined by the method of thick specimens

SOURCE: Uzhgorod. Universitet. Nekotoryye problemy sovremennoy fiziki yadra i elementarnykh chastits; sbornik statey, no. 1, 1957, 73 - 78

TEXT: The procedure suggested previously (V.A. Shkoda-Ul'yanov. Nauchnyye zapiski Uzhgorodskogo Gosudarstvennogo universiteta, v. 18, 1956; B.I. Gol'danskiy and V.A. Shkoda-Ul'yanov. ZhETF, 623, 1955) for determining the total cross sections of γ n-reactions in thick specimens by the photon difference method is based on the assumption that the resonance range characterizing the excitation function of the γ n-reaction is narrow enough so that for $E = E_p$ the factor

$$\frac{1}{\sigma_{\text{abs}}(E) E} \left[1 = \frac{Y(\epsilon)}{f(0)} \right]$$

Card 1/2

The influence exerted by the width of

S/381/51/000/001/007/013
A066/A126

is equal to the value at which $\sigma_{\gamma n}(E)$ reaches a maximum, and remains constant in the determination of the maximum photoneutron yield. This assumption, which is based on equations of the above papers, is proved to be justified. Photoneutron yields are calculated for Al, Cu, Pb, and for a maximum bremsstrahlung energy of 250 Mev. The results obtained here prove the applicability of the method proposed by the two above-mentioned authors. There are 3 tables.

VB

SUBMITTED: October 18, 1956

Card 2/2

KURUTZ, I.

KURUTZ, I. Method of measuring to determine losses in snail-shell casings of fans. p. 109.

Vol. 12, no. 1/4, 1954, Budapest, Hungary KOZLENYEI

SO: Monthly List of East European Accessions, (FEAL), LC, Vol. 5, No. 3, March, 1956

KURUTZ, I.

KURUTZ, I. Change in performance characteristics of centrifugal fans
expressed as a function of the width of the rotating wheel. n. 25.

Vol. 13, no. 1/4, 1954, Budapest, Hungary KOZLETMENYEI

SO: Monthly List of East European Accessions, (EFAL), IC, Vol. 5, No. 3,
March, 1956

FURUTZ, I.

FURUTZ, I. Effect of surface roughness on the performance characteristics of centrifugal
vents. p. 471.

Vol. 15, No. 1/4, 1955.

KOZLMENTEI.

TECHNOLCCY

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

KURUTZ, I. (Budapest XI., Bertalan Lajos u. 4-6)

An approximation method to facilitate the calculation of radial runners. Periodica polytechn eng 3 no.3:223-235 '59. (EEAI 9:7)

1. Lehrstuhl für Stromungslehre, Technische Universität, Budapest.
(Roller bearings)

KURUTZ, I.

TECHNOLOGY

Periodical: EPITEKNOLOGIA Vol. 1, no. 1, 1959.

KURUTZ, I. Estimation of ventiler types on the basis of their
characteristic size without dimensions.

Monthly List of East European Accessions (MEA) 10, Vol. 1, No. 5,
May 1959, Inclass.

KURUTZ, Imre

Cooling air conduction in water-cooled motor vehicle engines. Jarmu
mezo gep 6 no.4:111-115 '59.

KURUTZ, Imre

Questions of heat transfer and aerodynamics in air-cooled engines. Jarmu mezo gep 7 no.2:44-54 '60.

KURUTZ, I.

Computation of a radial runner with a conical cover disk. Periodica
polytechn eng 4 no.3:267-276 '60. (EEAI 10:6)

1. Lehrstuhl für Strömungslehre der Technischen Universität,
Budapest.
(Mechanical engineering)

KURUTZ, Imre; BLAHO, Miklos

Investigating the diffuser of axial ventilators. *Épületgépészet*
9 no.5:194-196 '60.

1. Budapesti Műszaki Egyetem Áramlástani Tanszéke.

KURUTZ, Imre, okl. gépészmernök

Up-to-date fans. Energia es atom 14 no.12:535-546 D '61.

1. Budapesti Muszaki Egyetem Armlastani Tanszeke tudomanyos munkatarsa.

KURUTZ, Imre

Modern ventilators. Musz elet 16 no.8:11 Ap '61.

(EEAI 10:9)

(Hungary—Ventilators)

L0596

20 : 141

S/261/62/000/014/004/004
1007/1207

AUTHOR: Kurutz, I.

TITLE: Method for controlling operation of a radial-flow (centrifugal) pump by adjusting the impeller blades

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 34. Kompresory i tekhnika, no. 14, 1962, 13, abstract 34.14.99 (Acta techn. Acad. Scient. hung. v. 32, no. 3-4, 1961, 415-422 [English]).

TEXT: A method for controlling operation of centrifugal pumps by adjusting the angle of impeller blades is described, and the dependence of head and delivery on the twisting angle of the blades about an axis parallel to the pump axis is shown. Experimental and predicted relationships between head and delivery coefficients for three values of blade-setting angles are compared, and theoretical characteristics are plotted for the case of non-interrupted flow of an ideal fluid in a circular cascade of infinitely thin blades. The good agreement of experimentally predicted values in the field of optimum head and delivery proves the validity of the Hoffmeister method. [Abstractor's note: apparently the above method is meant]. It is shown that a pump with adjustable-blade impeller ensures higher efficiency in a wider range of operational characteristics and is therefore more economic than the same pump but with the fixed blades (stator) mounted at the pump inlet. There are 5 figures.

[Abstractor's note: Complete translation.]

Card 1/1

X

KUNUTZ, Imre, okl.gépészmérnök, tudományos munkatárs

Effect of the compressibility of air on the centrifugal fans with high peripheral velocity. Épületgépészet II no.1:4-7 F '62.

1. Budapesti Műszaki Egyetem Áramlástani Tanszéke.

KURUTZ, Imre, okleveles gepeszmernok

Aerodynamic forces affecting motor vehicles. Jarmu mezo gep
10 no.1:2-14 Ja '63.

1. Budapesti Muszaki Egyetem Aramlastani Tanszeke tudomanyos
munkatarsa.

Kurutz E. K.

✓ 3443. GENERAL CHARACTERISTICS OF ELECTRICAL
ARC WELDING MACHINES AND TRANSFORMERS.

621.791.735

K. KUPRIS.
Elerifortchnika, Vol. 43, No. 12, 267-77 (Dec., 1955). In 1
Hungarian.

A theoretical treatment is given on the basis of static and dynamic characteristics. Definitions of the latter are tested and the author attempts to clarify certain controversies, data which affect the design and the operation of the machines.

L. Csuros

of

KURUTZ, K.
Elect. Eng.

ELECTROTECHNIKA
Vol 50, Nr 3, March, 1957

2

KURUTZ, K.
Static Frequency Triplicator and its Industrial Use

The paper gives a short survey of the working principles of the static 50/150 c. p. s. frequency changer, of measuring results, design methods and of some industrial applications. A numerical example of design is shown and the ferroresonant phenomena occurring in these connections are discussed.

er
December 16, 1957

filed

KURUTZ, Karoly, dr., okleveles villamosmérnök

Devices for investigating casting faults in the squirrel-cage rotors of induction motors. Villamosag ll no.4:100-106 Ap '63.

1. Villamosipari Kutató Intézet.

KURUTZ, L.

/ 3557. Petur, A. and Kurutz, L. Design of wooden beams subjected to bending, with regard to the elastic properties of wood, *Acta Techn. Hung. Biologica* 7, 3-4, 257-274, 1953.

Problem of bending of wooden beams is treated by recognizing the nonlinear elastic stress-strain properties and unsymmetrical strength properties in tension and compression. A semiempirical design chart is presented for prediction of the failure moment of a beam of solid or flanged section, based on the ratio of tensile to compressive strength of the material.

An approach of this type is more rational than conventional methods of rupture and factor method, appears to be easier to apply, and limited experimental data indicate better accuracy.

P. E. Sandorff, USA

① JP

KURUTZ, L.

"The conduction of cooling air in water-cooled motors for vehicles." p. 111.

JARMUVEK MEZOGAZDASAGI GEPEK. (Gépipari Tudományos Egyesület). Budapest, Hungary.
Vol 6, No. 4, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959
Uncla.

KURUZBAVER, L.S.

36461. KURUZBAVER, L. S. I KHROMOV, B. M.

Puti Rasprostraneniya Vospalitel'nogo Protsessa I Topografiya Gnoynykh Zatekov Pri Osteomielitakh Chelyus--Tey. Stomatologiya, 1949, No. 4, S. 35-41.

30: Letopis' Zhurnal'nykh Statey, Vol. 49, Moskva, 1949

MKHITARYAN, Suren Artemovich; ROSTOVSKIY, S.N., red.; KUHUZOV, V.I., red.;
SHADRINA, N.D., tekhn.red.

[Labor and trade-union movement in Vietnam] Rebochee i prof-
soluznoe dvizhenie vo V'etname. Pod red. S.N.Rostovskogo. Moskva,
Izd-vo VTsSPS Profizdat, 1960. 158 p. (MIRA 13:6)
(Vietnam--Trade unions)

KURVANIDZE, V.A.

Maximum flow resulting from rain in rivers of western Georgia.
Trudy GGI no.73:146-189 '60. (MIRA 13:6)
(Georgia--Floods)

ZHEREBTSOVA, P.; KURVATOV, N.; GALKINA, L.

Centralized manufacture of tomato and sour-cream sauces. Obschestv.pit.
no.1:27-29 Ja '63. (MIRA 16:4)

1. Leningradskiy institut sovetskoy trgovli imeni F.Engel'sa.
(Sauces)

KURVICHKO, V.M., inzh.

Oil from corn. Masl.-shir.prom. 26 no.6:16-17 Je '60.
(MIRA 13:6)

1. Stavropol'skiy kraypishcheprom.
(Corn oil)

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82475

Author : Kurvits, A

Inst : ~~_____~~

Title : On the Application of Mentor Plant Method in the Selection of Fruit Trees.

Orig Pub : Vopr. razvitiya sadovodstva v EstSSR, Tallin, Est. gos. izd-vo, 1957, 94-105

Abstract : Described are the successful application of mentor plants for acceleration of fruit bearing, change of coloration and the quality of the fruit, increasing the appearance of the cultivated characteristics and formation of desirable qualities in the seedlings of apple tree, pear and plum.

Card 1/1

- 109 -

KARMA, Otto; KURVITS, Ü., red.; SÜNDEMA, S., red.

[From the industrial revolution to the socialist revolution in Estonia; the development of industry before 1917]
Tööstuslikult revolutsioonilt sotsialistlikule revolutsioonile
Eestis; tööstuse arenemine 1917. aastani. Tallinn, Eesti NSV
Teaduste Akadeemia Ajaloo Instituut, 1963. 507 p. [In Estonian]
(MIRA 17:6)

CSERMELY, Hubert; CSEH, Imre; KURY, Gyorgy

Intracerebral vascular changes in Sturge-Weber and Fahr diseases. Ideg. szemle 11 no.1-2:10-15 Feb-Apr 58.

1. A Gyonyosi Varosi Tanacs Bugat Palkorhaza (Igazgato: Dr. Fejes Istvan) es a bajai Varosi Tanacs Korhaza (Igazgato: Dr. Burg Ete) prosecturajanak kozlemenye.

(ANGIOMATOSIS, pathol.

Sturge-Weber dis., histopathol. of intracerebral vasc. changes (Hun))

(BRAIN, dis.

Fahr dis., histopathol. of intracerebral vasc. changes (Hun))

1. KURYA, ANNA
2. USSR (600)
4. Collective Farms - Rumania
7. Our life has changed, Krest'ianka 31 no. 5, 1953.

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

GOL'DENBERG, A.Ya.; BEGLYAROVA, N.T.; KURYACHAYA, D.K.; KLETSKINA, K.T.;
BISKUBOVA, Z.O.; BAYRAKOV, M.N.; SHUSTER, D.Ye.; TOLL', M.Kh.

Prophylactic examination of the population for tuberculosis. Sov.
med. 25 no.5:78-82 My '62. (MIRA 15:8)

1. Iz organizatsionno-metodicheskogo sektora (rukovoditel' - kand.
med.nauk A.Ya.Gol'denberg) Khar'kovskogo instituta tuberkuleza i
oblastnykh protivotuberkuleznykh dispanserov: Khar'kovskogo
(glavnyy vrach N.T.Beglyarova), Dnepropetrovskogo (glavnyy vrach
K.T.Kletskina), Zaporozhskogo (glavnyy vrach M.M.Bayrarov) i
Sevastopol'skogo gorodskogo dispansera (glavnyy vrach M.Kh.Toll').
(TUBERCULOSIS--PREVENTION) (MEDICAL SCREENING)

BOYKO, A.K.; IVANCHENKO, A.I.; KURYACHIY, L.K. [Kuriachyi, L.K.];
TEPLOV, V.P. [Tiepl'ov, V.P.]

Age of the Kuzya series of Rakhov Massif. Dop. AN URSR
no.8:1095-1098 '64. (MIRA 17:8)

1. L'vovskiy gosudarstvennyy universitet i Zakarpatskaya
geologicheskaya ekspeditsiya tresta "Kiihgeologiya".
Predstavleno akademikom AN UkrSSR O.S. Vyalovym [Vialov, O.S.].

KURYACHY, A.N.

5(57) FINE I BOOK EXPLOITATION NOV/522
Mashirovostroyeniye sovetskoye po merlotovedeniyu. 7th, Moscow, 1956
Materialy po inzhenernom merlotovedeniyu (Materials on Engineering Aspects
of Permafrost); 1st International Conference on Studies of Permafrost
(Permafrost) Moscow; 1st-vo AN SSSR, 1955. 179 p. Errata slip inserted. 1,500
copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye geolog-geograficheskikh
nauk. Institut merlotovedeniya.
Eds.: I. B. Kurusov, E. A. Teylovich, and A. M. Chernitskiy; Ed. of Publishing
House: A. L. Zhuravskiy; Tech. Ed.: Ye. V. Muzumel.

NOTE: This book is intended primarily for construction engineers and geologists
interested in permafrost problems.

CONTENT: This collection of articles contains reports originally discussed at
the 7th International Conference on Permafrost held in Moscow in March,
1956. Materials of this conference were published in three issues: general
permafrost studies, engineering aspects of permafrost (present work),
and ground physics and mechanics. Individual articles of this work discuss
basic problems of planning, building, and operating various buildings and
structures in permafrost regions. Some of the information reported, parti-
cularly on hydraulic engineering construction, is new and appears for the
first time in the literature on permafrost. Articles are accompanied by
sketches.

Babitskiy, V. P. Problems of Heat Engineering Calculation of Process Structural Foundations Susceptible to Their Based on Experimental Data and Field Observations	39
Chernikov, V. A. Heat Engineering Calculation of Cooling of Concrete Foundations Taking Into Account the Heat Losses in a Permafrost Frozen Bed	50
Saltykov, E. I. Bases and Foundations of Surface Structures Erected in Areas of Permafrost Ground	56
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KURYACHIY, A. N., KURDENKOV, L. I., RZHANITSYN, B. A., ZHUKOV, V. F.,
GORBUNOV, B. P.,

"Pre-construction thawing and strengthening of permafrost soils"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ.,
Lafayette, Indiana, 11-15 Nov 63

SOV/137-57-1-710

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 91 (USSR)

AUTHORS: Minikh, R. A., Kuryachiy, I. D., Bezdol'nyy, M. G.

TITLE: Cast Iron Shavings, Supplied Into the Fusion Zone of a Cupola Furnace With the Aid of a Worm Conveyor, Are Resmelted Without Briquetting (Pereplavka chugunnoy struzhki v vagranke bez briketirovaniya s pomoshch'yu shnekovoy podachi v zonu plavleniya)

PERIODICAL: V sb.: Rats. ispol'zovaniye struzhki i dr. otkhodov chernykh i tsvet. metallov. Moscow, Mashgiz, 1956, pp 352-360

ABSTRACT: The method was applied at the "Krasnyy oktyabr" [The Red October] plant in Krasnodar (1951-1953). The content of the shavings in the cupola charge amounted to 8.3%. The untreated shavings are charged into a device consisting of a hopper, mounted above the charging platform of the worm conveyor, and the drive mechanism of the latter. One side of the conveyor is connected to the hopper by means of a vertical tube, while the other side connects to the interior of the cupola furnace (CF) through an opening in the masonry. The axis of this opening is situated at a distance of 300 mm above the axis of the third, upper, row of tuyères, which ensures introduction of the

Card 1/2

SOV/137-57-1-710

Cast Iron Shavings, Supplied Into the Fusion Zone of a Cupola Furnace (cont.)

shavings into the fusion zone of the CF. The output of the device amounts to 200 kg of shavings per hour. A single CF 950 mm in diameter is serviced by two such units, each of which is powered by an electric motor rated at 4.5 kw. Introduction of shavings in an amount equivalent to 8% did not produce any perceptible changes in the temperature or the composition of the resulting cast iron. The hourly output of the CF's increased by 10%. The cost of the device described is -2000 rubles.

Ye. E.

Card 2/2

KURYACHYEV, A. ENG.

Dairying - Apparatus and Supplies

Organize the production of perfected equipment more quickly. Mol. prom.
13 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195~~3~~₂, Uncl.

KURYACHEV, A. Eng.

Dairy Plants - Accounting

Cost accounting in departments of the municipal milk plant. Moloch. prom. 14,
no. 3, 1953.

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

KURYACH'YEV, A.; DRUZ'YAK, F.

Simplify the system of production records in city dairy plants.
Moloch. prom. 18 no.6:25-26 '57. (MLPA 10:6)

1. Rostevskiy molochnyy kombinat (for Kuryach'yev). 2. Kamenskiy
molochnyy zavod (for Druz'yak).
(Dairy Industry--Accounting)

YEVSTRAT'YEVA, Ye.D.; KURYACH'YEV, A.P.; SINITSYN, A.V.

Drying cottage cheese by sublimation. Kons. i ov. prom. 14
no.4:16-18 Ap '59. (MIRA 12:5)

1. Rostovskiy konservnyy zavod "Smychka" (for Yevstrat'yeva, Sinitsyn).
2. Giprorybproyekt (for Kuryach'yev).
(Cottage cheese—Drying)

KURYACH'YEV, A.; FADEYEVA, V.

In the commission for planning and designing. Mias.ind.SSSR 31
no.3:26-27 '60. (MIRA 1):9)

1. Rostovskoye otdeleniye instituta Gidrorybproyekt.
(Rostov Province--Meat industry)

BIRYUKOV, S.; KUR'YAKOV, V.; SUSLOVA, Z.; ALEKSEYEV, A.; PANTELEYEV,
A.; KARAVAYEV, P.; BELONOGOV, A.

Improve State Bank credit-payment relations with collective
farms. Den. i kred. 18 no.2:55-60 F '60. (MIRA 13:1)

1. Starshiy kreditnyy inspektor Shurminskogo otdeleniya Gosbanka
Kirovskoy oblasti (for Biryukov). 2. Nachal'nik otdela
kreditovaniya kolkhozov Chitinskoy kontory Gosbanka (for
Kur'yakov). 3. Kreditnyy inspektor Kotel'nicheskogo otdeleniya
Gosbanka Korovskoy oblasti (for Suslova). 4. Upravlyayushchiy
Selivanovskim otdeleniyem Gosbanka Vladimirovskoy oblasti (for
Aleksseyev). 5. Starshiy revizor Zapadno-Kazakhstanskoy kontory
Gosbanka (for Panteleyev). 6. Glavnyy bukhgalter Komi-Permyat-
skoy okrugnoy kontory Gosbanka (for Karavayev). 7. Upravlyayu-
shchiy Perechinskim otdeleniyem Gosbanka Zakarpatskoy oblasti
(for Belonogov).
(Agricultural credit)

KURYACHAYA, D.K.

Organization of keeping accurate records of the contingents of tuberculosis patients and of their observation, Probl. tub, 42 no.12:11-13 '64. (MIRA 18:8)

1. Khar'kovskiy oblastnoy protivotuberkuleznyy dispanser (glavnyy vrach L.F.Kulibaba).

TUL'CHINSKAYA, K.Z.; KUR'YAK, A.I.; DUMOVA, A.M.

Vitamin B metabolism; a summary. Trudy VNIIV 5:175-176 '54.

(MLRA 9:3)

1. Vitaminnaya laboratoriya Tsentral'nogo instituta akusherstva i ginekologii i Leningradskiy filial.

(THIAMINE)

KUR'YAKOV, G. Z.

Effect of a lead dioxide film upon the corrosion of a lead anode. G. Z. Kur'yakov and I. A. Korchmarek. *Zhur. Priklad. Khim.* 26, 921-4 (1953); cf. *C.A.* 47, 9182i. — Pb anodes alloyed with Ag and different combinations of Sn, Co, Sb, Mn, and Si, and without Ag but with Sn, Sb, Mn, and Al were placed between 2 Al electrodes in a 2N H₂SO₄ solution and subjected to a polarizing current of 400 amp./sq. m. for 2 weeks. Electrodes without Ag lost more than 10 times as much Pb as those with Ag. The process of corrosion consisted of: film formation of quadrivalent Pb, and salts formed in the electrolyte, which fell off as slime; and the passage of Pb⁺⁺ into the electrolyte and to the cathode. The presence of Ag decreased slime formation and retarded the diffusion of Pb⁺⁺ from the anode to the electrolyte. The addn. of elements forming insol. compds. thickened the film, retarding diffusion. The presence of Mn as an alloy or in the electrolyte did not effect the resistance to corrosion but reduced the amt. of Pb⁺⁺ passing into the electrolyte. The thickness rather than the porosity of the film was the controlling factor, but neither was directly related to the resistance of Pb anodes to corrosion. I. B.

KUR'YAKOVA, A.F.

[Organization of therapeutic physical exercise in hospitals]
Organizatsiia lechebnoi fizkul'tury v bol'nitsakh. Moskva,
Medgiz, 1957. 86 p.

(EXERCISE THERAPY)

(MIRA 11:1)

KUR'YAKOVA, A.F.

Organization of medical services at final events of the spartakiads
of the R.S.F.S.R. and U.S.S.R. Sov.zdrav. 16 no.4:54-56 Ap '57.

(MIRA 10:8)

1. Starshiy inspektor Ministerstva zdravookhraneniya RSFSR
(ATHLETICS,
med. supervision in Russia(Rus))

KUR'YAKOVA, A.F.

Second plenum of the council on treatment and prophylaxis in the
Main Administration of Therapy and Prophylaxis of the R.S.F.S.R.
Ministry of Public Health. Zdrav.Ros.Feder. 3 no.2:44-45 F '59.
(PUBLIC HEALTH) (MIRA 12:2)

AUTHORS: 127/79-23-B-5/66
Lhtifman, L. M., Syavtsillo, G. V., Murzhkova, L. G.

TITLE: Polarographic Determination of Several 2-Ethylanthroquinone Derivatives (Polarograficheskoye opredeleniye nekotorykh proizvodnykh 2-etilantrokhinona)

CITATION: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 9, pp. 2028-2030 (USSR)

ABSTRACT: The polarographic behavior of the anthroquinone compounds is considered in a number of papers (Refs 1-6). In the present paper polarographic investigations were carried out on the derivatives of 2-ethylanthroquinone, including 2-ethylanthrone and 2-ethyl-10-oxanthrone, according to the method described in reference 7. 0,001-0,01 molar solutions of 2-ethylanthrone and 2-ethyl-10-oxanthrone were used. The polarograms were taken on the following mixture: 0,6 mole $[(C_2H_5)_4N]Br$ in a mixture of 61 % methyl alcohol, 35 % water, and 4 % benzene (by volume); the per cent concentration of these solutions lay between 7,5 and 7,0. Under the experimental conditions the half-wave potential of 2-ethyl-

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79-28-8-5/66

Micrographic Determination of Several 2-Ethylanthroquinone Derivatives

anthrone was at $1,4 \pm 0,03$ V., while that for 2-ethyl-10-oxanthrone was at $1,3 \pm 0,03$ V. The half-wave potentials of these two compounds in 0,6 mole bromotetramethylammonium and aqueous solution of methyl alcohol containing some benzene were therefore taken to be 1,4 and 1,3 V. (relative to a saturated calomel electrode). It was also found that the height of the waves for 2-ethylanthrone and 2-ethyl-10-oxanthrone are proportional to the concentration (0,001-0,01 molar) of the solution. There are 2 figures, 1 table, and 7 references, 3 of which are Soviet.

SUBMITTED: June 28, 1957

Card 2/2

L 11415-63

EPF(c)/EWT(m)/BDS

Pr-4

RM/wd

S/032/63/029/005/007/022

57

AUTHOR: Shtifman, L.M., Lastovich, V.V. and Kuryakova, L.G.

TITLE: Determination of sodium cyclopentadienyl content in a reaction mixture by high-frequency titration

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 5, 1963, 546

TEXT: No methods of determining sodium in sodium cyclopentadienyl appear in the literature. The fact that the reaction mixture is colored would make the use of an indicator difficult. The method consists of high-frequency titration of the combined sodium. The analysis takes 15 minutes.

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Card 1/1

L 47386-65 EWI(m)/ENP(t)/ENP(b) IJP(c) JD

ACCESSION NR: AP5006823

S/0065/65/000/002/0046/0046

AUTHOR: Shtifman, L. M.; Kuryakova, L. G.; Lascovich, V. V.; Lerner, M. O. 15
B

TITLE: Determination of manganese in gasoline and carbon scale

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1965, 46 21 10-

TOPIC TAGS: manganese, gasoline, polarographic analysis

ABSTRACT: The authors proposed a polarographic method of determining bivalent manganese in cyclopentadienyltricarbonyl manganese in a supporting electrolyte consisting of an alkaline solution of triethanolamine with preliminary mineralization of the manganese compound samples and carbon scale with concentrated sulfuric acid. For the determination of manganese in gasoline, 4-6 ml of gasoline are put in a 250 ml Kjeldahl flask and 20 ml of concentrated sulfuric acid and 0.4 grams of potassium sulfate are added. The flask is heated until the solution becomes completely clear; if it does not become clear, hydrogen peroxide is added drop by drop. The clear solution is transferred to a 50 ml quartz beaker and the liquid is boiled off; then the residue is roasted in a muffle furnace at 800°C. After cooling the

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ACCESSION NR: AP5006823

residue is dissolved in sulfuric acid, transferred to a 100 ml measuring flask and distilled water is added to bring it up to the mark. Then 5 ml of the solution is transferred to a 50 ml measuring flask for polarographic analysis. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: FP, GC

NO REF SOV: 002

OTHER: 005

bjo
Card 2/2

KURYAKOVA, V., inzh.

Spark pugls for the ZIL 11 and Chaika cars. Za rel. 19 no.11:25
N°61. (MIRA 14:12)

(Spark plugs)

KUR'YALOV, N. P..

"Concerning information on the structure of ledol. II. On hydrogenation products of ledol, ledene and leddiene." (p. 2074)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 11.

KUR'YALOV, N. P.

"Concerning information of the structure of ledol. III. The hydrocarbon skeleton of leddiene. Crystalline products of the oxidation of ledene." (p. 2077)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 11.

KURYANOV, A. I., SONIN, V. V., and IBAYEV, V. K.,

"On the application of the maximum principle to rocket flight problems"

report to be submitted for the 14th Congress Intl. Astronautics Federation,
Paris, France, 25 Sep-1 Oct 63

VOLOTKOVSKIY, S.A., doktor tekhn.nauk; RENGEVICH, A.A., doktor tekhn.nauk;
KUR'YAN, A.I., kand.tekhn.nauk

Establishing a parametric series for electric mine locomotives.
Vop. rud. transp. no.7:182-194 '63. (MIRA 16:9)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

SOY/112-58-2-2336

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 90 (USSR)

AUTHOR: Bun'ko, V. A., Kur'yan, A. I., and Petrovskiy, A. A.

TITLE: Automatic Storage-Battery Charging for Mine Locomotives
(Avtomatizatsiya zaryada akkumulyatornykh batarey rudnichnykh elektrovozov)

PERIODICAL: Y. sb.: Avtomatizatsiya v ugol'n. prom-sti. M., Ugletekhnizdat, 1956, pp 445-457

ABSTRACT: The storage-battery charging of mine locomotives is conducted under constant-current conditions, single-step charging being used for alkali batteries and 2-step charging for acid batteries. Type YSZSh-2Sh selenium rectifiers made by the Dnepropetrovskiy Plant maintain the charging current within a $\pm 5\%$ and $\pm 11\%$ range. Continuous charging-current control is effected in the rectifier by a voltage regulator comprising a saturation choke coil and a transformer or autotransformer. Ways of constructing saturation choke coils with a 4-core magnetic circuit are described. It is pointed out that an additional compensation winding and an appropriate regulator circuit diagram

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SOV/112-58-2-2336

Automatic Storage-Battery Charging for Mine Locomotives

permit decreasing the dimensions of the choke coil. To check the charging and discharging of the various storage batteries, and also to turn off a charged battery automatically, ampere-hourmeters are used. The Dnepropetrovsk Selenium-Rectifier Plant has developed two ampere-hourmeter designs after a "Sangallo" Company meter. In one design, the control element has been simplified; instead of a mercury bath with permanent magnets and strips, two parallel-connected resistors are used, one of which is adjustable and connected in series with the selenium rectifier. In the second design, a multipole magnet has been used in addition to the above alterations.

O. G. Kh.

Card 2/2

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SOV/112-58-3-3917

Translation from: Referativnyy zhurnal. Elektrotehnika, 1958, Nr 3, p 59 (USSR)

AUTHOR: Bun'ko, V. A., and Kur'yan, A. I.

TITLE: Operation of Voltage Regulators on Mining-Type Charging Selenium Rectifiers (Rabota regulyatorov napryazheniya shakhtnykh zaryadnykh selenovykh vypryamiteley)

PERIODICAL: V sb.: Avtomatizatsiya v ugol'n. prom-sti. M., Ugletekhizdat, 1956, pp 470-475

ABSTRACT: Types VSZSh-70/36 and VSZSh-2Shch automatic selenium chargers are widely used for charging storage batteries of mining locomotives. The charging current is kept constant automatically as the voltage across the battery terminals rises. The principal components of the charger are:
(1) selenium-disk rectifier units connected in a three-phase bridge circuit;
(2) a three-phase voltage regulator consisting of a stepdown transformer (VSZSh-70/36 type) or an autotransformer (VSZSh-2Shch type) and a saturation

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SOV/112-58-3-3917

Operation of Voltage Regulators on Mining-Type Charging Selenium Rectifiers

choke coil whose impedance, decreasing from additional magnetization as the battery voltage rises, insures the constant charging current. In the VSZSh-70/36 type, the stepdown-transformer primary and the saturation choke in series with it can be star or delta connected depending on the supply voltage. This has no effect on the voltage-regulator operation. In the VSZSh-2Shch type a star-connected autotransformer circuit is used. It has been found that if the autotransformer and the saturation choke coils are delta connected, the rectifier operating conditions change so much that its function is practically stopped. Phenomena occurring in the above types during the star-delta switching are examined, and the reasons precluding the operation of delta-connected VSZSh-2Shch type, which often seems desirable with 220 v supply voltage, are explained.

S. A. P.

Card 2/2

BUN'KO, V.A.; KUR'YAN, A.I.

Automatizing the charging of storage batteries. Izv. DGI 28:143-148
'58. (MIRA 11:10)
(Storage batteries) (Automatic control)

BUN'KO, V.A., kand.tekhn.nauk; KUR'YAN, A.I., kand.tekhn.nauk; PODOL'SKIY,
V.A., kand.tekhn.nauk

Parameters of a current-limiting transformer. Vop.rud.transp. no.2:338-
343 '60. (MIRA 14:3)

1. Dnepropetrovskiy gornyy institut im. Artema.
(Electricity in mining—Safety measures)
(Electric transformers)

VOLOTKOVSKIY, S.A., prof.; BUN'KO, V.A., dots.; KU'RYAN, A.I., dots.

"Electric railroad haulage (equipment and maintenance)" by B.M.Gurevich,
E.A.Valil'ev. Reviewed by S.A.Volotkovskii, V.A. Bun'ko, A.I.Kur'ian.
Gor.zhur. no.6:73-79 Je '60. (MIRA 14:2)

1. Dnepropertovskiy gornyy institut.
(Mine railroads—Equipment and supplies)
(Gurevich, B.M.) (Vasil'ev, E.A.)

SHISHKOV, A.I., kand.tekhn.nauk; KUR'YAN, A.I., kand.tekhn.nauk; FETENKO,
G.I., inzh.

Calculation of static mechanical characteristics of an asynchronous
motor with saturable reactors in the stator circuit. Elektrichestvo
no.9:92-93 S '60.

(Electric motors, Induction)

(MIRA 13:10)

SHISHKOV, A.I., kand.tekhn.nauk; KUR'YAN, A.I., kand.tekhn.nauk;
PETRENKO, G.P., inzh.

Calculating the mechanical characteristics of an asynchronous motor considering the nonlinearity of the saturation throttle in stator circuits. Izv.vys.ucheb.zav.; gor.zhur. no.11:171-178 '60. (MIRA 13:12)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy gornoy elektrotekhniky Dnepropetrovskogo gornogo instituta.
(Electric motors, Induction)

DEMIN, A.M., kand. tekhn. nauk; KOKH, P.I.; CHERTKOV, V.K.; VASIL'YEV, M.V., kand. tekhn. nauk; YEFIMOV, I.P.; KMITOVENKO, A.T., dots.; PRISEDSKIY, G.V., inzh.; DUNAYEVSKIY, Yu.N.; VOLOTKOVSKIY, S.A., doktor tekhn. nauk; KUR'YAN, A.I., kand. tekhn. nauk; MAYMIN, A.I.; MIROSHNIK, A.M.; PETROV, I.P.; TUIYSHEV, B.F.; SHISHKOV, A.I.; AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, D.K.; LUKAS, V.A.; MINEYEV, V.A.; SMIRNOV, A.A., otv. red.; LYUBIMOV, N.G., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Handbook for the mechanic in a coal pit] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gosgortekhnizdat, 1961. 639 p.

(MIRA 15:12)

(Coal mining machinery—Handbooks, manuals, etc.)

VOLOTKOVSKIY, S.A., doktor tekhn.nauk; KUR'YAN, A.I., kand.tekhn.nauk

Technical parameters of electric mine locomotives. Vop. rud.
transp. no.6:180-192 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

KURYAN, A. I.

"Optimum motion of a mass point in presence of aerodynamic forces in a central gravitational field."

report presented at the 4th Intl Cong of the Intl Council of Aeronautical Sciences, Paris, 24-28 Aug 64.

KUR'YANOV, B.F.

Effect of noise on the determination of the angle of arrival
waves by means of a moving receiver. Akust. zhur. 10 no.3:368-
370 '64. (MIRA 17:11)

1. Akusticheskiy institut AN SSSR, Moskva.

KUR'YANOV, B.F.

Scattering of sound from a doubly rugged surface. Akust.zhur. 8
no.3:325-333 '62. (MIRA 15:11)

1. Akusticheskiy institut AN SSSR, Moskva.
(Sound waves)

KUR'YANOV, B.F.

Spatial correlation of fields of waves emitted by random sources
situated on a plane. Akust. zhur. 9 no.4:441-448 '63. (MIRA 17:3)

1. Akusticheskiy institut AN SSSR, Moskva.

KUR'YANOV, B.F.

Coherent and incoherent scattering of waves by an array of
point scatterers randomly distributed in space. Akust. zhur. 10
no.2:195-201 '64.

Effect of a free surface on sound scattering in the sea.
Ibid.:245 (MIRA 17:6)

1. Akusticheskiy Institut AN SSSR, Moskva.

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 ACC-2/0 T(1)/000-4/000-2/00(0) In-4/P00/1-4
 200/10(a)-S/P00(1)/000(a)/000(a)/000(a)/000(a)/000(a)
 ACCESSION NR: AP4044621 S/0046/64/010/003/0368/0370

AUTHOR: Kur'yanov, B. F.

TITLE: The influence of noise on the determination of the direction of arrival of a wave with the aid of a moving receiver

SOURCE: Akusticheskiy zhurnal, v. 10, no. 3, 1964, 368-370

TOPIC TAGS: Doppler indicator, noise analysis, signal noise ratio, optimal band width, direction finding

ABSTRACT: A theoretical analysis is made of the effect of arbitrary noise on the direction of arrival of a signal with arbitrary spectrum, determined by means of the Doppler effect, using a moving receiver. The signal is assumed to be a stationary random function with a specified time spectrum. The noise is assumed to a random field, stationary in time and homogeneous in space, with a specified energy density at a given frequency and a given direction. Evaluation of the correlation functions of the signal and of the noise for two points separated in space and in time shows that the spectrum of the

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ACCESSION NR: AP4044621

signal experiences a shift and broadening (or narrowing) in frequency. It is further shown that an optimal filter can be designed to separate the signal. This possibility is demonstrated for the particular cases of a monochromatic signal and monochromatic and isotropic noise, for isotropic nonmonochromatic white noise, and for narrow-band signal and noise. Some limits on the possible gain resulting from increasing the scanning speed are qualitatively indicated. Orig. art: has: 5 formulas.

ASSOCIATION: Akusticheskiy institut AN SSSR, Moscow (Acoustics Institute AN SSSR)

SUBMITTED: 29Jul65

ENCL: 00

SUB CODE: GP, DC

NO REF SOV: 010

OTHER: 012

2/2

TKALICH, S.M.; MINEYEV, I.K., glavnyy red.; RYABENKO, V.Y., zam. glavnogo red.; TUMOL'SKIY, L.M., zam. glavnogo red.; KUR'YANOV, F.K., otv. zav vypusk; BASSOLITSYN, Ye.P., red.; BLINNIKOV, I.I., red.; DAUKSHO, Yu.Ye., red.; DZINKAS, Yu.K., red.; ZHARKOV, M.A., red.; ZAVALISHIN, M.A., red.; MANDEL'BAUM, M.M., red.; MATS, V.D., red.; MALETOV, P.I. red.; NOMOKONOVA, N., red.; NOSEK, A.V., red.; SERD, A.I., red.; SEMENYUK, V.D., red.; TAYEVSKIY, V.M., red.; TIKHONOV, V.L., red.; TROFIMUK, I.N., red.; TOMILOVSKAYA, M.V., red.; FOMIN, N.I., red.; SHAMES, P.I., red.; TROSHANIN, Ye.I., tekhn. red.

[Biogeochemical anomalies and their interpretation.] Biogeo-
khimicheskie anomalii i ikh interpretatsiia. Irkutsk, 1961.
39 p. (Materialy po geologii i poleznym iskopaemym Irkutskoi
oblasti no.3).

(MIRA 17:1)

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