

SINYAVSKIY, V.G.; TURBINA, A.I.

Methods for determining primary amino groups and for the
control of the diazotization processes and azo coupling of
aromatic amino polymers. Plast. massy no.2:63-64 '64.
(MIRA 17:8)

SINYAVSKIY, V.G.; TURBINA, A.I.; ROMANKEVICH, M.Ya.

Polymerization and copolymerization of p-aminostyrene.

Plast. massy no.8:63-65 '63.

(MIRA 16:8)

(Styrene) (Polymerization)

SINYAVSKIY, V.G. [Syniavs'kyi, V.H.]; TURBINA, A.I.; ROMANKEVICH, M.Ya.
[Romankevych, M.IA.]

Synthesis of n-aminostyrene. Dop. AN URSR no.12:1622-1624 '62.
(MIRA 16:2)

1. Institut khimii polimerov i monomerov AN UkrSSR. Predstavleno
akademikom AN UkrSSR A.I. Kiprianovym.
(Styrene)

TURBINA, A.I.; SIN'YAVSKIY, V.G.; ROMANKEVICH, M.Ya.

Synthesis of *o*-hydroxyphenyl vinyl ketone. Ukr. khim. zhur. 31 no.18:
85-88 '65. (MIRA 18:5)

1. Institut vysokomolekulyarnykh soyedineniy AN UkrSSR.

SINYAVSKIY, V.G. [Syniavs'kyi, V.H.]; TURBINA, A.I.; ROMANKEVICH, M.IA.
[Romankevych, M.IA.]

Diazotization of granular copolymers of p-aminostyrene with
divinylbenzene and their nitrogen coupling with some phenol
derivatives. Dop. AN URSSR no.5:613-615 '63. (MIRA 17:9)

1. Institut khimii polimerov i monomerov AN UkrSSR. Predstavleno
akademikom AN UkrSSR A.I.Kiprianovym.

AMINOPOLYSTYRENE

THESIS: General properties and synthesis of aminopolystyrene and its
zene copolymer

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 8, 1961, 868-869

TOPIC TAGS: polyaniline; aminopolystyrene; copolymerization

ABSTRACT: The possibility of the polymerization and utilization of the polymer

ization with vinylbenzene. It is shown that the polymerization of aminopolystyrene and copolymerization products of n-aminostyrene. Aminopolystyrene obtained by

Card 1/2

L 21725-65

ACCESSION NR: AP4044550

ASSOCIATION: Institut khimii polimerov i monomerov AN UkrSSR (Institute of the
Chemistry of Polymers and Monomers, Academy of Sciences of the USSR)

SUBMITTED: 05Oct63

ENCL: 00

SUB CODE: GC, MT

NO REF SOV: 001

OTHER: 001

Card 2/2

SINYANSKIY, V.G.; TURBINA, A.I.

Depolymerization of polyaminostyrene and of a copolymer of
p-aminostyrene and divinylbenzene. Ukr. khim. zhur. 30 no.8:
868-869 '64. (MIRA 17:11)

1. Institut khimii polimerov i monomerov AN UkrSSR.

KOTON, M.M.; ANDREYEVA, I.V.; TURBINA, A.I.; SINYAVSKIY, V.G.

Polymerization of o-hydroxypnenyl vinyl ketones. Dokl. AN SSSR
159 no.3:602-604 N '64 (MIRA 18:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. 2. Chlen
korrespondent AN SSSR (for Koton).

L 16088-65

ACCESSION NR: AP4049923

5

acetone, pyridine, or dimethylformamide, and in dilute alkalis; it is insoluble in methanol, and is soluble in concentrated sulfuric acid.

only along the double bond, and the reaction is reversible; the reaction of the double bond with hydrogen is also reversible.

Orig. art. has: 1 formula, 1 table, 10 references.

ASSOCIATION: Institut vysskomo molekulyarnykh sovedineniy Akademii nauk SSSR (Institute of Macromolecular Compounds, Academy of Sciences, USSR)

Card 2/3

L 16066-65

ACCESSION NR: AP4049923

SUBMITTED: 09Jul64

ENCL: 00

SUB CODE: 00, MT

NO REF SCV: 004

OTHER: 001

ATD PRESS: 3145

Card 3/3

L 18806-63

EPF(c)/ENP(j)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW/MAY

ACCESSION NR: AP3000284

S/0021/63/000/005/0613/0615

AUTHOR: Sy*nyavb'ky'y, V. G.; Turbina, A. I.; Kiprianov, A. I.

TITLE: Diazotization of granular Copolymers of n-aminostyrol with divinylbenzene and their nitrogen coupling with some phenol derivatives (Presented by UkSSR Academician A. I. Kiprianov)

SOURCE: AN UkSSR Dopovidi, no. 5, 1963, 613-615

TOPIC TAGS: kinetics, granular copolymer, aminostyrol, nitrogen, granular cohesion, granular dimension, reagents concentration, diazotization, nitrogen coupling

ABSTRACT: The authors studied the kinetics and other regular phenomena of the diazotization of granular copolymers of n-aminostyrol with divinylbenzene, and the nitrogen coupling of the resulting diazopolymers with azocompounds. They undertook the study of the dependency of polyaminostyrol cohesion, granular size, concentration, and ratio of reagents upon the speed and degree of completeness of the reactions because there was no literature on the problem. They

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L 18806-63

ACCESSION NR: AP3000284

observed the following: That decreases in cohesion and increases in reagent ratios accelerated the diazotization and nitrogen coupling reactions, while variations in granular sizes and concentrations of the reagents had little effect; that a decrease in granular size and an increase in reagent ratios produces a higher degree of reaction completion. They conclude that, for a maximum yield of diazopolymers, it is necessary to use: copolymer granules of minimum size and cohesion; at least a 1 to 6 ratio of copolymer to sodium nitrite solution; a concentrated solution of sodium nitrite for easier handling. Orig. art. has: 3 graphs.

ASSOCIATION: Institut khimii polymeriv ta monomeriv AN UkSSR (Institute of Chemistry of Polymers and Monomers of the AN UkSSR)

SUBMITTED: 26Oct62

DATE ACQ: 17Jun63

ENCL: 00

SUB CODE: CH

NO REF SOV: 002

OTHER: 001

Card 2/2

SINYAVSKIY, V.G.; TURBINA, A.I.; ROMANKEVICH, M.Ya.

Swelling and salt formation of granular copolymers of
p-aminostyrene with divinylbenzene. Ukr. khim. zhur. 29 no.7:
736-738 '63. (MIRA 16:8)

1. Institut khimii polimerov i monomerov AN UkrSSR.
(Styrene) (Benzene) (Polymers)

ACCESSION NR: AP4012195

S/0191/64/000/002/0063/0064

AUTHORS: Sinyavskiy, V. G.; Turbina, A. I.

TITLE: Methods for determining the primary amino group, control of processes of monodiazotization and azo-combination of aromatic amino polymers

SOURCE: Plasticheskiye massy*, no. 2, 1964, 63-64

TOPIC TAGS: amino group, monodiazotization, azo-combination, aromatic amino polymer, polymer-analogous conversion, Sandmeyer's reaction, hydroxy sulfo hydryl polystyrol, chlorpolystyrol, fluorpolystyrol

ABSTRACT: Polymer-analogous conversion is becoming very significant. By nitrating the granular copolymer of styrol and divinyl benzol following reduction, subsequent monodiazotization and combination with various aromatic amines and phenols causes synthesis of the complexing cationites, ionite-indicators and poly azo dyes. With the aid of Sandmeyer's reaction, hydroxy sulfo hydryl, chlor-, fluor- and other derived polystyrols are obtained. A method is also

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ACCESSION NR: AP4012195

presented for quantitative determination of the primary amino groups in aromatic polymers. This method provides a control for the processes of monodiazotization, azo combination of amino polymers and elimination of the diazo group. With 50-95% content of the amino group in the polymer, accuracy of the method does not exceed 2.4%. Orig. art. has: 1 Diagram, 1 Table, 1 Formula

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: CH

NR REF SOV: 003

OTHER: 001

Card 2/2

L 17705-63

EWf(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WI

ACCESSION NR: AP3003996

S/0073/63/029/007/0736/0738

67
66

AUTHORS: Sinyavskiy, V. G.; Turbina, A. I.; Romankevich, M. Ya.

TITLE: Swelling and salt formation of granular copolymers of n-aminostyrole and divinylbenzene

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 29, no. 7, 1963, 736-738

TOPIC TAGS: polymer swelling, salt formation, aminostyrole, divinylbenzene, dichloroethane, dimethylformamide

ABSTRACT: Experiments were conducted to determine the rate and degree of swelling and salt formation, using granular copolymers of n-aminostyrole and divinylbenzene as a function of temperature, size of granules and HCl concentration. The swelling was determined by means of a comparator which measured the size of granules. The degree of salt formation or the amount of absorbed HCl or the change in the static volume in mg-equiv./l of the copolymer was determined by the titration of the excess acid. The copolymer granules swell very little in benzene, dichloroethane, chloroform, dioxane, ether, but do swell in glacial acetic acid, dimethylformamine, pyridine, and in mineral acid solutions. The swelling greatly depends on the copolymer binding and on the temperature of the solvent. Copolymer saturation with acid is more complete if it is treated in a column rather than at static

Card 1/2

L 17705-63

ACCESSION NR: AP3003996

conditions. Orig. art. has: 2 figures.

ASSOCIATION: Institut khimii polimerov i monomerov AN UkrSSR (Institute of Polymer and Monomer Chemistry, Academy of Sciences, UkrSSR)

SUBMITTED: 25Oct62

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: CH

NO REF SOV: 000

OTHER: 001

Card 2/2

TURBINA, A.S.

Certain species of Paleogene bivalves and gastropods in the West
Siberian Plain. Trudy SNIIGGIMS no.2:19-36 '59. (MIRA 12:11)
(West Siberian Plain--Lamellibranchiata, Fossil)
(West Siberian Plain--Gastropoda, Fossil)

TURBINA, G.V.

Case of giant-cell tumor of the vertebra. Khirurgiia no. 9:11C-
112 '61. (MIPA 15:5)

1. Iz patologoanatomicheskogo otdeleniya (zav. - zasluzhennyy
vrach RSFSR P.Z. Kotlyarchuk) Ryazanskoy oblastnoy klinicheskoy
bol'nitsy imeni Semashko (glavnyy vrach - zasluzhennyy vrach
RSFSR B.N. Shirokov).

(SPINE--TUMORS)

BUDOVICH. Makar Danilovich [Budovych, M.D.]; DEGTYAR, Grigoriy
Andreyevich [Dehtiar, H.A.]; ZDAYEVSKIY, Petr Petrovich
[Zdaievs'kyi, P.P.]; TURBINA, I.D., red.

[Experimental and training work in rabbit raising in school]
Navchal'no-doslidna robota z krolivmytstva v shkoli. Kyiv,
Radians'ka shkola, 1963. 87 p. (MIRA 17:4)

GREKH, I.F.; KLECHIKOV, L.Z.; PASHININ, P.M.; TURBINA, I.I.

C-reactive protein in benign neoplasms and cancer. Vop. onk.
(MIRA 18:9)
11 no.7:37-40 '65.

1. Iz kliniko-diagnosticheskoy laboratorii (zav.- dotsent I.F.
Grekh Instituta onkologii AMN SSSR (dir.- deystvitel'nyy chlen
AMN SSSR prof. A.I. Serebrov)).

TURBINA, I.L.; MEZENTSEVA, S.K.

Changes in hemopoiesis in patients with malignant tumors of the ovaries in the process of chemotherapy. Vop. onk. 11 (MIRA 18:11) no.8:38-41 '65.

1. Iz III khirurgicheskogo otdeleniya (zav. - prof. V.P. Tobilevich), kliniko-diagnosticheskoy laboratorii (zav. - dotsent I.F.Grekh) Instituta onkologii AMN SSSR (direktor - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov) i ginekologicheskogo otdeleniya (zav. S.K.Mezentseva) Lengoronkodispensera (glavnyy vrach - S.S.Yaritsyn).

SOKOLOVA, N.M.; TURBINA, I.I.; SEL'DOVICH, D.R.

Content of vitamin B₁₂ in the blood of patients with malignant tumors. Vop. onk. 11 no.9:36-42 '65. (MIRA 18:9)

1. Iz III khirurgicheskogo otdeleniya (zav. - prof. V.P.Tobilevich) i kliniko-diagnosticheskoy laboratorii (zav. - dotsent I.F. Grokh) Instituta onkologii AMN SSSR (dir.- deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov).

GREKH, I.F.; KARLINSKAYA, R.S.; TURBINA, I.L.

Effect of some pyrimidine derivatives on the metastasis of
inoculated SSK sarcoma in rats. Vop. onk. 9 no.9:23-27 '63.
(MIRA 17:9)

1. Iz laboratorii eksperimental'noy onkologii (zav.- zasluzhennyy
deyatel' nauki prof. N.V. Lazarev) i kliniko-diagnosticheskoy
laboratorii (zav.- dotsent I.F. Grekh) Instituta onkologii AMN
SSSR (dir.- deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).
Adres avtorov: Leningrad, P-129, 2-ya Berezovaya alleya, 3,
Institut onkologii AMN SSSR.

GREKH, I.F.; KARLINSKAYA, R.S.; TURBINA, I.L.

Effect of some pyrimidine derivatives on the metastasis of
transplantable SSK rat sarcoma. Vop. onk. 10 no.2:98-105 '64.
(MIRA 17:7)

1. Iz laboratorii eksperimental'noy onkologii (zav. -zasluzhennyy
deyatel' nauki prof. N.V. Lazarev) i kliniko-diagnosticheskoy
laboratorii (zav.- dotsent I.F. Grekh) Instituta onkologii AMN
SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).
Adres avtorov: Leningrad, P-129, 2-ya Berezovaya alleya, Institut
onkologii AMN SSSR.

TURBINA, I.L.

Bone marrow hematopoiesis in patients with malignant ovarian tumors. Vop. onk. 9 no.6:24-30 '63. (MIRA 17:8)

1. Iz 3-go khirurgicheskogo otdeleniya (zav. - prof. V.F. Tobilevich, nauchnyy rukovoditel' raboty doktor med. nauk I.D. Nechayeva) kliniko-diagnosticheskoy laboratorii (zav. - dotsent I.F. Grekh) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtora: Leningrad, P-129, 2-ya Berezovaya aileya, 3, Institut onkologii AMN SSSR.

GREKH, I.F.; TURBINA, I.L.; KARLINSKAYA, R.S.

Effect of some pyrimidine derivatives on the toxic and antineoplastic action of sarcolysine. Vop. onk. 9 no.8:41-48 '63
(MIRA 17:4)

1. Iz laboratorii eksperimental'noy onkologii (zav. - za-sluzhennyy deyatel' nauki prof. N.V. Lazarev) i kliniko-diagnosticheskoy laboratorii (zav. - dotsent I.F. Grekh) Instituta onkologii AMN SSSR (direktor - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtorov: Leningrad, P-129, 2-ya Berezovaya alleya, 3, Institut onkologii AMN SSSR.

TURBINA, I.L.

State of hematopoiesis in cancer of the ovaries during Thio-TEPA treatment. Vop. onk. 10 no.1:54-62 '64.

(MIRA 17:11)
1. Iz 3-go khirurgicheskogo otdeleniya (zav. - prof. V.P. Tobilevich, nauchnyy rukovoditel' doktor med. nauk - I.D. Nechayeva) i kliniko-diagnosticheskoy laboratorii (zav. - dotsent I.F. Grekh) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtora: Leningrad, P-129, 2-ya Berezovaya alleya, 3, Institut onkologii AMN SSSR.

GREKH, I.F. (Leningrad, K-156, B. Osipovskaya ul., d.6, kv.22); KARLINSKAYA, R.S.;
TURBINA, I.I.

Results of the treatment of rats with transplanted SSK sarcoma
with ThioTEPA associated with some pyrimidine derivatives. Vop onk.
10 no.8:84-87 '64. (MIRA 18:3)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhennyy
deyatel' nauki prof. N.V.Lazarev) i kliniko-diagnosticheskoy
laboratorii (zav. - dotsen I.F.Grekh) Instituta onko'gii AMN SSSR
(dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov).

TURBINA, L.V.

Effect of the adrenocorticotrophic hormone on the functional state of the neuromuscular apparatus. Trudy Khab. med. inst. 23 no.2:44-48 '62 (MIRA 16:12)

Effect of the adrenocorticotrophic hormone on the reactivity of the vasomotor and respiratory centers of sensitized animals. Ibid.:49-52

1. Iz kafedry patologicheskoy fiziologii (zav. - dostent V.D.Lindenbraten) Khabarovskogo meditsinskogo instituta.

TURBINA, L.V.

Effect of adrenocorticotrophic hormone on the state of cutaneous
receptors. Biul. eksp. biol. i med. 55 no.3:21-26 1963.

(MIRA 18:2)

1. Iz kafedry patologicheskoy fiziologii Khabarovskogo meditsinskogo
instituta. Submitted April 18, 1961.

OL'SHANSKAYA, T.S.; PEN, R.M.; TURBINA, N.D.

Problem of leukemia in children. *Pediatrics* 37 no.11:3-8 N '59.

(MIRA 13:3)

1. Iz klinicheskogo otdela (zaveduyushchiy - dotsent N.P. Savvatimskaya) Nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR (direktor - kand.med.nauk A.P. Chernikova, zamestitel' direktora po nauchnoy chasti - prof. N.R. Shastin).

(LEUKEMIA in inf. & child.)

. TURBINA, L.V.

V

USSR/Pharmacology and Toxicology/Analeptics.

Abs Jour: Ref Zhur-Biol., No 19, 1958, 98957

Author : Sorokhtin, G.M.; Minut-Sorokhtina, O.P.; Turbina, L.V
Inst : -
Title : Effect of Ginseng upon the Adaptation of the Cerebral
Cortex to Rhythms.

Orig Pub: V. sb. Materialy k izuch. zhenishenya i limonnika
Vyp. 3, L., 1958, 133-140

Abstract: In experiments conducted on rabbits with implanted
cranial electrodes, electroencephalograms were re-
gistered with light flashes at a frequency of 2-15
herz/sec. The rabbit was then administered 1 ml of
a ginseng extract, prepared with 20° alcohol and di-
luted with water 1:1. The administration of ginseng,

Card : 1/2

SOROKHTIN, G.N.; MINUT-SOROKHTINA, O.P.; TURBINA, L.V.

Effect of Schisandra chinensis and ginseng root extract on cerebral cortical rhythms. Zhur. vys. nerv. deiat. 5 no.5:747-755 S-0. (MLRA 9:1) '55.

1. Kafedra fiziologii Khabarovskogo meditsinskogo instituta.

(PLANTS,

Schisandra chinensis, eff. on EEG.)

(CONDIMENTS, effects,

ginseng, on EEG.)

(ELECTROENCEPHALOGRAPHY, effect of drugs on,
ginseng & Schisandra chinensis)

TURBINA, N.D.

Development, yield, and oil content of coriander in relation to conditions of mineral nutrition. N. V. Turbina. *Doklady Vsesoyuz. Sovetskoyu Fiziol. Razvitii 2; Trudy Inst. Fiziol. Razvitii im. K. A. Timiryazeva 4, No. 2, 77-90 (1945).* --Pot and field fertilizer expts., applications of N, P, K, and their combinations, have been conducted and data obtained on the coriander at different stages of growth and compn. of plants, N, sugars, and oils. Side dressing with N and K after having added a complete fertilizer has increased the yield of oil in the seeds. The highest yield of oil is obtained when N, P, and N-P-K are given to the plants in the early stages of the development of the plants. This means a basic application of a complete fertilizer, followed by sidedressing with N and K. Addns. of P during the period of formation of reproductive organs are helpful in increasing the oil content.

I. S. Ioffe

ASS. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

TURBINA, N. D.

Physical chemistry of pathological blood and serum. I.
I. T. Markevich and N. D. Turbina. *Colloid J. (U. S. S. R.)* 5, 933-42 (1939).—The elec. cond. and the pH of the serum of children are not affected by scarlet fever, while the η increases. This increase depends on the acidity of the serum and on the stage of the illness. The stability of serum proteins to EtOH has a min. in the second week of the fever. II. N. D. Turbina and I. T. Markevich. *Ibid.* 5, 953-60 (1939).—Scarlet fever slightly affects the resistance of the red blood cells to NaCl, the percentage of fibrinogen, the ratio of the viscosities of plasma and serum, and the rate of sedimentation of the red cells. Diffusion of sugar from the physiol. salt soln. into erythrocytes is not affected by it. J. I. Bikerman

TURBINA, N.S.

Bone marrow transfusions in the treatment of lymphogranulomatosis.
Probl. gemat. i perel. krovi 8 no.11:53-59 N '63. (MIRA 17:12)

1. Iz gematologicheskoy kliniki (zav. prof. M.S. Dul'tsin)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (direktor - dotsent A.Ye. Kiselev).

TURBINA, N.S.; ROZANOVA, N.S.; PEVZNER, T.N.

Case of lymphogranulomatosis treated with aurantine. Problem
genet. i perel. krovi 8 no.8:53-56 Ag '63. (MIRA 17:8)

1. Iz gematologicheskoy kliniki (zav. - prof. M.S. Dul'tsin)
i patologoanatomicheskoy laboratorii (zav. - prof. N.M. Nemenova)
Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir. - dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya
SSSR.

GUREVICH, I.B.; TURBINA, N.S.

Combined treatment of chronic myeloleukosis and lymphogranulomatosis with aurantin and X-rays. Med. rad. 8 no.12:3-8
D '63. (MIRA 17:8)

1. Iz gematologicheskoy kliniki (zav. - prof. M.S. Dul'tsyn)
i rentgenologicheskogo otdela (zav. - prof. I.B. Gurevich)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi.

TURBINA, N.S.

Surgical treatment of lymphogranulomatosis. Khirurgiia 40
no.12:104-108 D '64. (MIRA 18:3)

1. Gematologicheskaya klinika (zav.- prof. M.S. Dul'tsin)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi, Moskva.

OSOCHENIKAYA, G.V.; TURBINA, N.S.

Treatment of acute leukoses. Probl.gemat.i perel.krovi 5 (MIRA 13:12)
no.6:13-22 Je '60. (LEUKEMIA)

ANSHEVITS, M.Ya.; VOL'FSON, L.I.; GUREVICH, I.B.; IVANOVA, N.A.;
MIKHAYLOVA, L.I.; RODINA, R.I.; SKACHILOVA, N.N.; TURBINA, N.S.
(Moskva)

Reactivity of patients to blood transfusion used with chemotherapy.
(MLRA 9:7)
Klin.med., 33 no.11:36-45 N '55.

1. Iz gemoterapevticheskoy kliniki (zav.-prof. M.S.Dul'tsin)
Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir.-chlen-korrespondent AMN SSSR prof. A.A.Bagdasarov)
(BLOOD TRANSFUSION,
with chemother.)
(CHEMOTHERAPY,
with blood transfusion)

LORIYE, Yu.I.; AKSENOVA, O.V.; LAVROVA, O.P.; TURBINA, N.S.

Some problems in the treatment of leukemia. Terap.arkh. 33
no.2:94-101 F '61. (MIRA 14:3)

1. Iz gematologicheskoy kliniki (zav. - prof. M.S. Dul'tsin)
TSentral'nogo instituta gematologii i perelivaniya krovi.
(LEUKEMIA)

VEL'TMAN, R.P.; ZHUKOVSKIY, L.I.; PONOMAREV, L.Ye.; VEMYAN, A.Zh.;
 BENENSON, M.P.; ZALMANENOK, V.S.; KRUPENKO, T.I.; BABICH, Z.Ye.;
 GUTMAN, L.B.; ALIMOV, T.U.; YAKUNIN, P.N.; KRYZHANOVSKAYA, N.L.;
 AKSEL'DORF, A.L.; MUSINA, S.A.; KLEYF, A.D.; LUTSEVICH, E.V.;
 LEVINSON, O.S.; TURBINA, N.S.

Brief reports. Sov. med. 28 no.10:144-148 O '65.

(MIRA 18:11)

1. Kiyevskiy institut tuberkuleza i grudnoy khirurgii (for Vel'tman, Zhukovskiy).
2. 3-ya kafedra khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva (for Ponomarev, Vemyan, Benenson).
3. Kafedra propedevticheskoy terapii Grodnenskogo meditsinskogo instituta i 1-ya klinicheskaya bol'nitsa imeni Solov'yeva, Grodno (for Zalmanenok, Krupenko).
4. Ukrainskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva imeni Buyko, Kiyev (for Babich, Gutman).
5. Klinika gospi'tal'noy khirurgii Andizhanskogo meditsinskogo instituta (for Alimov).
6. Kafedra voyenno-polevoy terapii Voyenno-medit'sinskoy ordena Lenina akademii imeni Kirova, Leningrad (for Mitropol'skiy, Latysh, Murchakova).
7. Kafedra urologii I Moskovskogo ordena Lenina meditsinskogo instituta (for Aksel'dorf).
8. 4-ya infektsionnaya klinicheskaya bol'nitsa Ufy (for Musina).
9. Chernovitskaya detskaya oblastnaya klinicheskaya bol'nitsa (for Kleyf).
10. Klinika obshchey khirurgii lechebnogo fakul'teta I Moskovskogo meditsinskogo instituta imeni Sechenova i patologoanatomicheskoye otdeleniye klinicheskoy bol'nitsy No.23 imeni Medsantrud, Moskva (for Lutsevich, Levinson).

(Cont. next card)

VEL'TMAN, R.P.; (Continued) Card 2:

11. Gematologicheskaya klinika TSentral'nogo ordena Lenina
instituta gematologii i perelivaniya krovi, Moskva (for Turbina).

ZISLIN, B.D. (Sverdlovsk, ul. Griboyedova, 20, kv.9); FORSHTADT, V.M.; LYSKOV,
P.G.; TURBINA, N.V.

Control of cardiac rhythm in pulmonary and pleural surgery. Vest. khir.
92 no.3:15-19 Mr '64. (MIRA 17:12)

1. Iz otdeleniya legochnoy khirurgii (rukovoditel' - kand. med. nauk
M.L.Shulutko) Sverdlovskogo gorodskogo protivotuberkuleznogo dispan-
sera (glavnyy vrach - Ye.S.Gubina) i Instituta gigiyeny truda i pro-
fessional'noy patologii (dir. V.A.Mikhaylov).

TURBINA, T. V.

Category: USSR / Diseases of Farm Animals. General Problems.

V-1

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72263

Author : Turbina T. V.

Inst : Not given

Title : Complications Arising from the Castration of One-Humped Camels.

Orig Pub: Tr. Turkm. S. Kh. In-ta, 1956, 8, 211-214

Abstract: No abstract

Card : 1/1

-13-

70013-001 / V.

USSR / Diseases of Farm Animals. General Problems.

R

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 101311

Author : Turbina, T. V.; Gritsay, A. A.; Karapetova, A. E.
 Inst : Turkmen Agricultural Institute
 Title : Comparative Evaluation of Medicinal Dusting Effects upon Healing of Wounds in Farm Animals.

Orig Pub : Tr. Turkm. s.-kh. in-ta, 1957, 9, 391-396

Abstract : Observations were carried out on sheep, goats, dogs, pigs, and horses. It was established that hexachlorocyclohexane dustings inhibit the development of pus-forming microbes in wounds. Thus, hydration phases of wound processes are shortened, and development of firm, healthy granulations and epithelial tissues becomes accelerated. When wounds are dusted with hexachlorocyclohexane and DDT, their becoming infected by fly larvae is prevented. These dustings do not produce any toxic effects upon the animals' organisms.

Card 1/1

USSR/Diseases of Farm Animals. Noninfectious
Diseases.

R-2

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92720

Author : ~~Turbina, T. V.~~
Inst : Turkmen Agricultural Institute.
Title : Caries of the Sternum in Camels.

Orig Pub : Tr. Turkm. s.-kh. in-ta, 1957, 9, 401-402

Abstract : Five cases of the caries of the sternum
are described in which trauma is the basis
of origin. The disease ran its course chro-
nically, the animals lost their plumpness
and capacity for work. Their general condi-
tion was worsened. The operative treatment
with medicines did not produce positive re-
sults. -- I. I. Magda

Card : 1/1

TURBINA, Ye.I., uchitel'nitsa (g.Khimki Moskovskoy oblasti)

Literature and motion pictures on the protection of nature.
Biol. v shkole no. 6:84-86 H-D '60. (MIRA 14:1)
(Bibliography--Plants, Protection of)
(Bibliography--Wildlife, Conservation of)

TURBINA, Ye.I., uchitel'nitsa (g. Khimki)

Scientifically based atheistic literature for students. Biol. v
shkole no.3:92-93 My-Je '62. (MIRA 15:7)
(Bibliography—Atheism)

Turbina, Ye.

TURBINA, Ye.I., uchitel'nitsa (g. Khimki Moskovskoy oblasti)

Books on nature for children and youth. Biol. v shkole no.1:90-92
Ja-F '58. (MIRA 11:1)

(Bibliography--Nature study)

TURBINA, Ye.I., uchitel'nitsa (g. Khimki Moskovskoy oblasti)

Nature of our homeland and aesthetic education of students.
Biol. v shkole no.5:34-37 S-0 '62. (MIRA 16:2)
(Nature study)
(Aesthetics—Study and teaching)

TURBINA, Ye.I. (g.Khimiki, Moskovskaya oblast')

Photography of living nature. Biol. v shkole no.2:86 M-Ap '63.
(MIRA 16:4)

(Bibliography--Nature photography)

TURBINA, Ya. I., uchitel'nitsa.

Popular science books awarded prizes by the Ministry of Education of
the R.S.F.S.R. Est.v shkole no.3:95-96 My-Je '56. (MLRA 9:8)

1. Shkola No. 3 goroda Khimki Moskovskoy oblasti.
(Bibliography--Biology--Juvenile literature)

TURBINA, Ye.I.

"The pupil's library." Est.v shkole no.1:88-89 Ja-F '56.
(MLRA 9:5)

1. Uchitel'nitsa shkoly No. 3 goroda Khimki Moskovskoy oblasti.
(Bibliography--Children's literature)

TURBINA, Ye.I.

About Antarctica. Est. v shkole no.6:89-90 M-D '56.

(MLRA 9:12)

1. Uchitel'nitsa sredney shkoly no.3 g. Khimki Moskovskoy oblasti.

(Antarctic regions)

TURBINA, Ye.I., uchitel'nitsa (g.Khimki Moskovskoy oblasti)

Biology teacher and protection of nature. Biol. v shkole 6:7-11
N-D '58. (MIRA 11:11)

(Natural resources--Study and teaching)

TURBINA, Ye.I.

Conservation of nature. Biol.v shkole no.1:89-90 Ja-F '57.
(MLRA 10:5)

1.Uchitel'nitsa sredney shkoly No. 3 goroda khimki
Moskovskoy oblasti.

(National parks and reserves--Bibliography)
(Bibliography--National parks and reserves)
(Nature study)

TURBINA, Ye. I.

Hunting - Bibliography

What to read about animals. Est. v. shkole No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 1953, Uncl.

TURBINA, Ye. I.

USSR.

Role of the teacher in conducting Pioneer meetings. Est. v shkole No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1953² Unc1.

TURBINA, Ye. I.

Role of the teacher in conducting Pioneer meetings. Est. v shkole No. 2:69-72 Kr-Ap '52.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 ~~1953~~, Uncl.

TURBINA, Ye.I., uchitel'nitsa (g.Khimki, Moskovskoy oblasti)

Means for training in aesthetics. Biol.v shkole no.1:6-9
Ja-F '69. (MIRA 13:5)
(Biology--Study and teaching)

TURBINA, Ye. I.

USSR 600

Role of the teacher in conducting Pioneer meetings. Est. v shkole no. 2:69-72
Mr-AP '52.

9. Monthly List of Russian Accessions, Library of Congress, July 1953², Uncl.

TURBINA, Ye.I., uchitel'nitsa (Khimiki, Moskovskoy oblasti)

Serial editions of children's literature. Biol. v shkole no. 1:93-
95 Ja-F '61. (MIRA 14:4)

(Bibliography--Agriculture--Juvenile literature)

TURBINA, Ye.I., uchitel'nitsa.

Parents of students help the biology teacher. Est.v shkole no.6:85-86 '53.
(MLRA 6:10)

1. Shkola no.3 g. Khimki Moskovskoy oblasti.
(Biology--Study and teaching) (Home and school)

TURBINA, Ye.I., uchitel'nitsa (g.Khinki, Moskovskoy oblasti)

Books about the best teachers of biology ("Rural teacher" by F.A. Susloparova; "The teacher enthusiast" by V.I. Petrova. Reviewed by E.I. Turbina). Biol. v shkole no.3:82-84 My-Je '60. (MIRA 13:7) (Teachers) (Petrova, V.I.)

TURBINA, Ye.I., uchitel'nitsa (g.Khimki Moskovskoy oblasti)

Scientific and atheistic literature for teachers. Biol. v shkole
no.1:93 Ja-F '62. (MIRA 15:1)
(BIBLIOGRAPHY...ATHEISM)

TURBINA, Ye.I., uchitel'nitsa (g. Khimki Moskovskoy oblasti)

Books on the school production brigades. Biol. v shkole
no.3:94-96 My-Je '61. (MIRA 14:7)
(Bibliography--Agriculture--Study and teaching)

TURBINA, Ye.N., uchitel'nitsa.

Books on nature for children and youth. Biol. v shkole no.5:94-
96 S-0 '57. (MLRA 10:9)

1. Srednyaya shkola No.3, g. Khimki Moskovskoy oblasti.
(Bibliography--Nature study)

TURBINA, Z.V. (Rostovskaya oblast')

Work practice at a maternity home. Fel'd.i akush. no.1:50-51 Ja '55.

(OBSTETRICS,

in Russia, rural maternity homes)

(RURAL CONDITIONS,

maternity homes in Russia)

TURBINA, Z. V. Cand Med Sci -- (diss) "Dispensary Servicing of
the Female Population of Kolkhozes in the Irrigated ^{Lands} ~~Agricultural~~
~~Regions~~ of Rostovskaya Oblast." Rostov-on-the-Don, 1957. 19 pp
20 cm. (Rostov-on-the-Don State Medical Inst), 200 copies
(KL, 27-57, 110)

- 82 -

TURBINA, Z.V., st^{ar}shiy nauchnyy sotrudnik

State of the endometrium in women with underdeveloped sex organs
and sterility. Sbor. nauch. trud. Rost. gos. med. inst. no.21:
287-294 '63.

Dissociation between the state of the ovaries and the uterus
in women with underdeveloped sex organs and sterility. Ibid.:
(MIRA 17:11)
295-302

1. Iz nauchno-issledovatel'skogo instituta akusherstva i pediatrii
Rostova-na-Donu (direktor - kand. med. nauk F.S. Baranovskaya),
konsul'tant - prof. P.Yu. Iel'chuk.

TURBINA, Z.V.

Obstetric and gynecological service for the rural population.
(MIRA 7:8)
Akush. i gin. no.3:56-61 My-Je '54.

1. Iz Rostovskogo oblastnogo nauchno-issledovatel'skogo instituta
akusherstva i ginekologii (dir. kandidat meditsinskikh nauk F.S.
Baranovskaya, nauchnyy rukovoditel' prof. P.Ya.Lel'chuk)

(OBSTETRICS,

*in Russia, obst. serv. for rural population)

(GYNECOLOGY,

*in Russia, gyn. serv. for rural population)

(RURAL CONDITIONS,

*obst. & gyn. serv. in Russia)

TURBINE, YE. I.

Pioneers (Communist Youth)

Role of the teacher in conducting Pioneer meetings. Est. v. shkole No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 ~~1951~~, Uncl.

KAZANTSEV, N. D.; TURBINER, A. M. ; FOMLOV, I. V.
PYATNITSKIY, P. P. GRIGOR'YEV, V. K.; LUPON, N. N.

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

KAPLAN, P. M., MANOVA, I. V., ~~CONDOLIO, G. G.~~

"Unconditioned and Conditioned Reflex Asymmetry As An Index of Interoception of the Suprarenals."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959
(All-Union Institute of Experimental Endocrinology)

From the Department of Electrophysiology (Head--Professor P. M. Kaplan) of the
Ukrainian Institute of Experimental Endocrinology (Director--S. V. Maksimov,
Candidate of Medical Sciences)

EXCERPTA MEDICA Sec.2 Vol.10/8 Phy.Biochem. Aug. 57

3232. TURBINER N.M. Ukrainian Inst. of Endocrin., Kharkov, USSR. *On the influence of the characteristic properties of the spleen on the blood calcium level in hyper- and hypocalcaemia (Russian text) VRAC DELO 1956, 9 (913-916)

The problem of the characteristic specificity of the spleen in relation to its influence on the blood calcium level is studied. The work was performed on rabbits with hyper- and hypocalcaemia. Hypercalcaemia was brought about by the method of prolonged stimulation of the parathyroid glands and hypocalcaemia by extirpation of 3 of the parathyroid glands. After splenectomy performed on hypercalcaemic animals, there was a marked reduction in the calcium content in comparison with the normal figures. After implantation in the rabbit of the spleen of another animal species (cat, guinea-pig) increase of the calcium level to its former figure was not brought about, as was observed on implantation of the spleen of the same species. Increase of the blood calcium level in rabbits with hypocalcaemia, after implantation of the spleen of an animal of another species was not observed either. However, on implantation of the spleen of a rabbit, the calcium level was restored to normal. The author concludes that the influence of the spleen on the blood calcium level in hyper- and hypocalcaemia is characterized by species specificity.

Aprosina - Moscow

~~Kurmanov, A.~~
KURMANOV, A.; TRUBNIKOV, B.

[We saw Soviet Uzbekistan] My videli Sovetskii Uzbekistan. Tashkent,
Gos. izd-vo Uzbekskoi SSR, 1957. 137 p. (MIRA 11:2)
(Uzbekistan--Description and travel)

RYABOV, A.; TURBOBO, K.

First champion. IUn.tekh. 8 no.11:30-32 N '63. (MIRA 16:12)

KARPENKO, V.L., inzh.; BLOSHCHANENKO, N.P., inzh.; TURBOVETS, Yu.I.

Work experience of a gas plant producing hydrogen and oxygen.

Masl.-zhir.prom. 27 no.5:37-39 My '61.

(MIRA 14:5)

1. Zaporozhskiy maslozhirovoy kombinat.

(Zaporozh'ye—Oil industries—Equipment and supplies)

(Hydrogen) (Oxygen)

TURBOVICH, I. T.

"Oscillations in nonlinear systems with alternating parameters", by Candidate of Technical Sciences I. T. Turbovich, at the Power Engr. Inst. im KRZUZHANOVSKIY of the Acad. Sce. USSR.

SO: Elektrichstvo, No 5, Moscow, May 1947 (U-5533)

TURBOVICH, I. T.

"Controlled transmission with intermittent regulation", by Candidate of Technical Sciences I. T. Turbovich, at the Power Inst. im KRZHIZHANOVSKIY of the Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

TURBOVICH, I. T.

FA 53T52

USSR/Mathematics, Applied

Aug 1947

"Nonlinear Systems in Varying Parameters," I. T. Turbovich, Energetics Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR, 2 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 4

Describes nonlinear quasi-conservative systems with one order of freedom, and function which determines relation of time to parameters. Describes accumulation of energy and fluctuation amplitude and their relation to time. Submitted by Academician A. N. Kolmogorov, 28 Jan 1947.

53T52

TURBOVICH, I.T.,

Theory of oscillating systems with gradual non-linearity. Radiotekhnika 9 no.6:10-23 D '54. (MIRA 8:4)
(Differential equations) (Electric circuits)

USSR/Electronics TURBOVICH, I. T.

FD 229

Card 1/1

Author : Turbovich, I. T., Active Member, VNORiE

Title : Error in measuring frequency characteristics by the frequency modulation method

Periodical : Radiotekhnika 9, 31-35, Mar/Apr, 1954

Abstract : Proposes determining the error in measurement of the frequency characteristics of a four-terminal network by the frequency modulation method. Shows that this error consists of two components, and gives simple formulas for calculating them. Three references: 3 USSR.

Institution : All-Union Scientific and Technical Society of Radio Engineering and Electric Communications imeni A. S. Popov (VNORiE)

Submitted : January 10, 1954

TURBOVICH, I.T.; SOLOMONOV, V.G.

Errors in rapid methods of measuring telephone channel frequency
characteristics. Sber.munch.rab. po prov. svyazi no.4:103-110 '55.
(Telephone--Testing) (MLRA 9:2)

AID P - 4548

Subject : USSR/Electronics
Card 1/2 Pub. 90 - 2/11
Author : Turbovich, I. T.
Title : A generalization of Kotel'nikov's theorem
Periodical : Radiotekhnika, 4, 5-14, Ap 1956
Abstract : The Kotel'nikov theorem which permits determining any arbitrary time function with a limited spectrum according to discrete values of this function, appears to the author to be a very valuable relationship underlying any method of pulse communication. However, the spectrum limitation imposes certain problems in the application of this theorem. The author presents his solution of these problems consisting in: 1) series development of a time function with unlimited spectrum, and 2) the determination of the error in the approximate Kotel'nikov series development. One Soviet reference, 1933.

AID P - 4548

Radiotekhnika, 4, 5-14, Ap 1956

Card 2/2 Pub. 90 - 2/11

Institution : None

Submitted : F 10, 1956

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757510018-6

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757510018-6"

TURBOVICH, I-I.

AUTHOR: TURBOVIČ, I.T., KNIPPER, A.V., SOLOMONOV, V.G. PA - 2015
 TITLE: A Device for the visual Observation and Measurement of Frequency Characteristics of Group-Propagation Time, Phase Shift, and of the Modulus of the Wireless Transmission Coefficient (Frequency Characterograph).
 (Pribor dlja vizualjnogo nabljudenija i izmerenija častotnyh harakteristik gruppovogo vremeni pasprostranenija, fazovogo smeščenija i modulja koeficienta perdači (častotnyj harakterograf). Russian.
 PERIODICAL: Radiotekhnika, 1957, Vol 12, N r 1, pp 31-42 (U.S.S.R.)
 Received: 2 / 1957 Reviewed: 3 / 1957
 ABSTRACT: In connection with the measuring of the characteristics, the time needed for this purpose is of essential importance. A high degree of accuracy as well of rapidity when measuring frequency characteristics is obtained by means of the frequency modulation method with the aid of oscillographs. The authors are not of the opinion that these methods are less accurate than those based upon point measurement. The present paper describes the construction of a device for the rapid measurement of frequency characteristics; errors are investigated, and the block scheme of the device, which was developed between 1953 and 1955 in the laboratory of the USSR Academy of Sciences, is described. Calculations show that in most of the cases under investigation the complex error committed when measuring the wireless transmission coefficient is negligibly small within the range of high
 CARD 1 / 3

PA -- 2015

A Device for the visual Observation and Measurement of Frequency Characteristics of Group-Propagation Time, Phase Shift, and of the Modulus of the Wireless Transmission Coefficient (Frequency Characterograph).

frequencies and in the case of a velocity of frequency modification of 6 kc/sec^{-1} . Group propagation time is measured in accordance with the method developed by Nyquist. The error which characterizes this method, together with that which is due to the rapid method of measuring amounts to a total of less than $0.02 \mu\text{sec}$ in the case of most broad-band objects. The block scheme of the device is described. It consists of two parts: one for transmission and one for reception. The scheme of the transmitting part remains unchanged in the course of measurements of all three characteristics. The receiving part performs the following tasks: Measuring the amplitude of the envelope at the output of the object under investigation (during measurement of the wireless transmission coefficient), comparison and measurement of the phase differences of the envelope at the input and output of the object (during measurement of the group-propagation time), integration of group time according to frequency (when measuring deviations of phase shift from the linear characteristics). Reading off recordings made by the device is carried out by the comparison method. The measuring process is divided into two stages: a measuring

CARD 2 / 3

PA - 2015

A Device for the visual Observation and Measurement of Frequency Characteristics of Group-Propagation Time, Phase Shift, and of the Modulus of the Wireless Transmission Coefficient (Frequency Characterograph).

ing- and a graduating stage. Graduation is brought about by a potentiometer the transmission coefficient of which changes jerk-like during the graduating stage. Each individual act belonging to the process of reading-off recordings is described, and also the phase discriminator, which is a summator, the limiter, the integrator, which has a scheme with capacitive back-coupling, and the input detector, in connection with which detection is carried out without capacity. In conclusion detailed instructions are given as to how the exact operation of the apparatus must be checked and controlled, and all technical data of the device are given.

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress
CARD 3 / 3

Dynamic Frequency-Characteristics of Selective-Systems.

108-11-5/10

x difference of the displacements ($\xi_1 - \xi_2$) of those points, where the second power of the modulus of the transmission coefficient is less half than the maximum of the corresponding characteristic.

- 4.) Mean displacement of the dynamic in relation to the static characteristic.

This is determined as $\frac{\xi_1 + \xi_2}{2}$. The obtained formulae

are then adapted in three examples for the computation of the parameter of dynamic characteristics for real systems.

There are 5 figures, 2 tables, and 5 references, 5 of which are Slavic.

SUBMITTED: April 24, 1957.

ASSOCIATION: Nauchno-tehnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (Scientific-technical Society of Radio Engineering and Electrical Communications im. A.S. Popov)

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Turbovich, I. T., Member of the 108-13-8-2/12
Society

TITLE: On the Problem of the Use of the Kotel'nikov Theorem for Time Functions With Infinite Spectrum (K voprosu o primenenii teoremy Kotel'nikova k funktsiyam vremeni s neogranichennym spektrom)

PERIODICAL: Radiotekhnika, 1958, Vol. 13, Nr 8, pp. 11 - 12 (USSR)

ABSTRACT: A certain confusion exists in the selection of the series analogous to the series of Kotel'nikov which approximate the time function with an infinite spectrum. The expansion according to Kotel'nikov of the time function with a finite spectrum has the following two characteristics: 1) The expansion factors are values of the time function at the discreet moments. 2) The factors of the expansion into the Kotel'nikov series are at the same time factors of the expansion of a complex spectral function in a Fourier series, the spectrum width being the expansion interval. Both features are connected with each other and exist at the same time. When the Kotel'nikov theorem is used as an approximate time function with infinite spectrum. 1) The magnitudes of the limiting frequency and of the interval between the discreet times are not clearly determined and, to a certain degree, are

Card 1/3

On the Problem of the Use of the Kotel'nikov Theorem
for Time Functions With Infinite Spectrum

108-13-8-2/12

chosen arbitrarily (according to the demanded accuracy of approximation); and 2) The factors of the series can not have both above mentioned properties at the same time: either they are values of the time function at discrete moments, or they are factors of the Fourier expansion of a spectral function. Thus an alternative is formed: which series has to be regarded as that of Kotel'nikov - the one with its factors satisfying the first, or the other with its factors satisfying the second characteristic? - The author is of opinion that the possibility of practical use is the criterion for the correct selection of either of the two expansions.-The finding of the expansion factors according to the values of the time function at discrete moments does not cause any difficulties. The finding of the factors in the expansion according to the spectral function is practically impossible.- The error in the expansion of a time function with infinite spectrum into an approximate Kotel'nikov series is investigated, and the author shows that from the viewpoint of practice the expansion given in reference 4 is the most useful. Finally the degree of approximation in the representation of the series investigated is shown.

Card 2/3

On the Problem of the Use of the Kotel'nikov Theorem 00108-13-8-2/12
for Time Functions With Infinite Spectrum

There are 4 references, which are Soviet.

1. Time series--Theory 2. Mathematics

Card 3/3

SOV/106-59-6-10/14

AUTHOR: Turbovich, I.T.

TITLE: Measurement of the Parameters of Non-Linear Elements
(Short Communication) (Izmereniye parametrov
sushchestvenno nelineynykh elementov)

PERIODICAL: Elektrosvyaz', 1959, Nr 6, pp 71-73 (USSR)

ABSTRACT: For many practical purposes, it is sufficient to represent non-linearities by approximate "power" functions. Then a non-linear element can be characterised by two constant parameters. The article describes a method by which these constants can be measured. The method is applied to non-linear inductive elements but can be extended with little change to capacitive and resistive elements. A non-linear relationship between the flux-linkages ψ and the current i can be written approximately

$$\psi = L_K i^K \quad (1)$$

where L_K and K are constant parameters, determining the non-linearity of the element. L_K by analogy is called the "generalised" inductance and K is called the non-linearity index. A method of finding these two parameters would be to measure ψ and i at two points

Card 1/4