

SOV/133-59-2-25/26

Scrubbing of Ferromanganese Gas of Dust

necessary to build 2-3 ventury sprayers for each plant so as to enable their isolation in turn for cleaning from solid deposits. There are 11 figures, 3 tables and 4 references of which 3 are Soviet and 1 English.

ASSOCIATION: NIIOGAZ i Kosogorskiy Metallurgicheskiy Zavod
(NIIOGAZ and Kosaya Gora Metallurgical Works)

Card 6/6

SAMOKHIN, M.S., inzh.; TARNAVSKIY, I.L., inzh.

Experience in the operation of ash collectors at lowered gas temperatures. Teploenergetika 7 no.6:45-47 Je '60.

(MIRA 13:8)

1. Institut po proyektirovaniyu gazoochistnykh sooruzheniy.
(Electric power plants)

NITSKEVICH, Ye.A., dots.; KIRIVSKIY, G.N., inzh., nauchnyy red.;
FRIDMAN, I.M., inzh., nauchnyy red.; SAZANOV, B.V., dots.,
nauchnyy red.; YUSHKOV, S.B., inzh., nauchnyy red.;
FILIP'YEV, O.V., kand. tekhn. nauk, nauchnyy red.; VESELKOV,
N.G., inzh., nauchnyy red.; TARNAVSKIY, I.L., inzh., nauchnyy
red.; IVANOVA, A.N., inzh., red.; ZABAZLAYEVA, E.I., red.;
LANOVSKAYA, M.R., red. izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Heat engineering] Teploenergetika [By] E.A. Nitskevich. Pod red.
A.N. Ivanova. Moskva, Metallurgizdat, 1962. 348 p.

(MIRA 16:2)

1. Moscow. Tsentral'nyy institut informatsii chernoy metallurgii.
(Metallurgical furnaces) (Power engineering)

TARNAVSKIY, I.L., inzh.; MELIKSETYAN, S.A., inzh.

Results of testing vertical DVP electric filters in cleaning
blast furnace gases with a relatively low concentration of fly
ash. Teploenergetika 11 no.7:6-11 J1 '64. (MIRA 17:8)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut po promysh-
lennoy i sanitarnoy oчитke gazov.

MAYDANOVICH, V.P.; TARNAVSKIY, K.F.; FIL'KINA, K.T.

Results of work with Floskirev's medium containing synthomycin in the examination of subjects having suffered gastrointestinal infections. Zhur. mikrobiol. epid. i immun. 32 no.7:127-128 Je '61.

(MIRA 15:5)

1. Iz Krasnokamskoy sanitarno-epidemiologicheskoy stantsii.
(DIGESTIVE ORGANS---DISEASES) (CHLORMYCETIN)
(BACTERIOLOGY---CULTURES AND CULTURE MEDIA)

TARNAVS'KIY, M.P., student 5 kursu.

**Biology of the Dnieper vimba and its fishery. Stnd.nauki.pratsi
no.20:33-45 '56. (MLRA 9:12)**

**1.Naukoviy kerivnik - chlen-korrespondent Akademii nauk USSR pro-
fessor V.A.Movchan.
(Dnieper River--Carp)**

TARNAVSKIY, M.P. [Tarnavs'kiy, M.P.]

Black Sea flounder, gobies, and other commercial fishes of Lake
Molochnoye. Pratsi Inst. gidrobiol. AN URSR no.35:165-174 '60.
(MIRA 14:4)

(Molochnoye, Lake—Fishes)

ca

115

Role of nucleic acid in the occurrence of direct mutations.
N. D. Jarmovskii. *Russ. Acad. Sci. U.S.S.R. Ser. B*, 1949, No. 1,
1; *R. Chem. Zvest.*, 1949, II, 2161; *cf. C. A.* 43, 4370.
Further work confirms previous conclusions. Thymus
nucleic acid injected into *Drosophila* larvae can bring about
a direct mutation through an action on the chromosomes.
L. E. Gilson

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

SECTION	SECTION	SECTION	SECTION	SECTION	SECTION
0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35
36	37	38	39	40	41
42	43	44	45	46	47
48	49	50	51	52	53
54	55	56	57	58	59
60	61	62	63	64	65
66	67	68	69	70	71
72	73	74	75	76	77
78	79	80	81	82	83
84	85	86	87	88	89
90	91	92	93	94	95
96	97	98	99	100	101

117

The role of nucleic acid in chromosome conjugation
N. D. Tarnavskii. *Compt. rend. acad. sci. U. R. S. S. 23*,
122-0 (1957). — Crossing over in the X-chromosome of
Drosophila melanogaster was studied in heterozygous
females obtained by crossing homozygous females sc^+ / sc^+
with males of the normal line. These were divided into
groups which were injected with (I) a satd. soln. of a-
thymonucleic acid in 0.5% NaOH; (II) a 50% satd. soln.;
(III) a 35% satd. soln.; (IV) 0.5% NaOH only; (V) no
injection but pierced with a needle (control). Females

from these pupae were crossed with males sc^+ / sc^+ . IV
reduced the percentage of crossing over in the region $sc^+ -$,
probably reduced it in the region $f-car$ and had no definite
effect in the region $sc^+ - f$. I and III did not influence crossing
over in the region $sc^+ -$, but II increased it in this region.
Crossing over in the regions $sc^+ - f$ and $f-car$ was decreased by
I, II and III. Phenotypic alterations were found in 10
flies which had received nucleic acid and none in the con-
trols nor in those treated with NaOH. The type of the
mutation bitheax was changed in 12 flies and of the muta-
tion Bendix in 3 flies. Nelson McKaig, Jr.

458.554 METALLOGRAPHICAL LITERATURE CLASSIFICATION

31001 53103110

140320 02

REEL: 104

REEL: 104

REEL: 104

TARNAVSKIY, N. D.

Dec 47

USSR/Medicine - Flies
Medicine - Heredity, Experimental

"Mutation in Drosophila Through the Action of Dichloridethylsulphide," S. M. Gershenzon,
R. A. Zil'berman, O. L. Levochkina, A. M. Pashkovskiy, P. O. Sit'ko, N. D. Tarnavskiy,
Genetics Sec, Ins t Zool, Acad Sci USSR, 2 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 7

Chemical stimulation of mutation was begun before war. In postwar period yperite included
in experiments. Observed that this substance had high mutation genesis quality which
acts directly on chromosomes but does not cause any biological changes in cytoplasm.
Submitted by Academician A. V. Palladin, 27 Jun 1947.

PA 60T53

TARNAVSKIY, N. D.

USSR/Medicine - Heredity, Mechanism
Medicine - Nucleins

Mar/Apr 48

"Induction of Mutation in Drosophila by Thymonucleic Acid," S. M. Gershenson, R. A. Zil'berman, O. L. Levochkina, P. O. Sit'ko, N. D. Tarnavskiy, Zool Inst, Acad Sci USSR, 20 pp

"Zhur Obshch Biol" Vol IX, No 2

Presents results obtained by nurturing larva of two lines of *D. melanogaster* in media containing 8% and 12% sodium thymonucleate. Morphosis (principally wing indentations) were frequently observed in resultant flies; moreover, there were increases in mortality rate and lengthening of growth period. Discusses reasons for failure of previous efforts in this field and significance of results in relation to some general problems of genetics. Submitted 28 Jul 47.

PA5/49T63

TARNAVSKIY, N.P.

Materials on the characteristics of Dnieper and Danube vimbas.
Vop. ekol. 5:219-220 '62. (MIRA 16:6)

1. Institut gidrobiologii AN UkrSSR, Kiyev.
(Dnieper River--Vimba) (Danube River--Vimba)

TARNAVSKIY, N.P.

Comparative morphologic characteristics of vimba of the Dnieper
and Danube rivers. Vop. ikht. 2 no.2:220-223 '62. (MIRA 15:11)

1. Institut gidrobiologii AN UkrSSR.
(Dnieper River--Vimba) (Danube River--Vimba)

TARNAWA, Lech, mgr inż.

A successful experiment of a power unit reconstruction. Energetyka
Pol 15 no.10:298-300 0 '61.

TARNAWA, Lech, mgr inz.; ANDRZEJEWSKI, Zygmunt; KRAJEWSKI, Jan

Repairing a TG-9 Alsthom 15 MW turbine. Gosp paliw 11 Special issue no.
(95):59 Ja '63.

1. Elektrownia Warszawa-Powisle.

CZYZEWSKI, K.; FALKIEWICZ, A.; PACYNSKI, TARNAWSKI, S.; TARNAWSKA, S.

Endemic goiter in Lower Silesia. Postępy hig. med. doświadcz., Warsz.
5:203-228 1952. (CLML 23:2)

1. Of the Second Internal Clinic and of the First Surgical Clinic of
Wrocław Medical Academy and of Wrocław Central Regional Infirmary for
Thyroid Diseases.

TARNAWSKI, E.

"Matematyka dla elektryków" (Mathematics for electricians), by E. Tarnawski.
Reported in New Books (Nowe Książki), No. 13, July 1, 1955

TARNAWSKI, A.

Jof (NA)
4E3d
H

The influence of solvent on organic reactions: the influence of dielectric constants of solvents on the ratio of *o*- to *p*-isomers in the nitration of phenol. J. Podkórnka and A. Tarnewski (Tech. High School, Gliwicz, Poland). *Monatsh.* 90, 179-88 (1959).—PhOH was treated with NO₂ gas in org. and aq. solvents having different dielectric const. It was found that an increase of the value of the dielectric const. was accompanied by an increase of the relative amt. of *p*-isomer in the product. PhOH was twice distd., the limiting fractions b. 181.5-2.5°, m. 42.7°. The results were (solvent, b.p., ϵ , method of dehydration, dielectric const., dipole moment, % *o*-compd. obtained, *p* to *o* ratio, and % yield given): CCl₄, 75.8-76.0°, 1.4608, silica gel, 2.22, 0, 83.03, 0.52, 55.2; C₆H₆, 79.0-79.2°, 1.5007, silica gel, 2.28, 0, 65.50, 0.52, 57.5; ligroine, 87.0-100.0°, —, silica gel, —, 64.50, 0.52, 63.2; Et₂O, 83.9-34.2°, 1.3540, silica gel, 4.88, 1.18, 51.80, 0.93, 73.2; CHCl₃, 60.1-60.4°, 1.4457, silica gel, 4.24, 1.15, 62.50, 0.59, 53.3; AcOH, 117.8-118.3, 1.5731, CaSO₄, 6.13, 1.73, 81.80, 2.10, 68.3; Me₂CO, 55.7-55.8°, 1.3601, CaSO₄, 21.45, 2.95, 38.10, 1.63, 74.2; MeCN, 59.2-59.7°, —, CaSO₄, 38.80, 3.94, 43.70, 1.30, 71.3; MeNO₂, 100.2-100.5°, 1.3820, silica gel, 39.40, 3.54, 32.15, 2.01, 88.1; HCO₂H, 104.5-105.5°, 1.3710, CaSO₄, 57.00, 2.10, 80.40, 3.93, 75.4; H₂O, —, —, 80.40, 1.84, 5.28, 18.50, 73.9; *n*-C₄H₁₀OH, 136.1-136.8°, 1.4115, CaSO₄, 18.00, 1.55, 43.70, 1.19, 82.8; FrOH, 95.7-95.9°, 1.3838, CaSO₄, 29.00, 1.54, 45.10, 1.21, 75.7; EtOH, 77.5-77.7°, 1.3639, CaSO₄, 25.00, 1.70, 50.50, 1.04, 71.4; MeOH, 64.0-64.2°, 1.3419, CaSO₄, 31.20, 1.69, 70.00, 0.42, 90.4. NO₂ gas was cooled to -10° where it could be dried as a liquid with silica gel. PhOH (2 g.) was dissolved in 60 ml. solvent in a closed container having a thermometer, stirrer, and an inlet tube above and below the surface of liquid con-

nected to a flask (-r NO₂, the container and flask being immersed in thermostat. The temp. of the container was raised to 14°, then 3.5 ml. (three-fold excess) liquid NO₂ added to the flask at 18°. The evapn. of NO₂ lasted approx. 1 hr. during which time the temp. of the nitrated soln. did not exceed 16°. The pressure was then equalized by opening a stopcock in the upper connecting tube and the soln. stirred 1 hr., then poured into a distn. flask with the addn. of 20 ml. M H₂SO₄, and the *o*-isomer distd. with steam. The distn. was stopped in each case after 300 ml. distillate were obtained. The nitrophenols were detd. bromatometrically. The sample was brominated in acid with a mixt. of KBr and N/10 KBrO₃, KI added in 15 min., and the iodine titrated with N/10 thiosulfate. In each case the method of analysis was detd. by the solvent. The results showed that the *p* to *o* ratio increased with an increase in dielectric const. Mixts. of AcOH and H₂O showed clearly that with increased percentages of H₂O (i.e. high dielectric const.) the *p* to *o* ratio increased too. Similar values were obtained with aq. Me₂CO, HCO₂H, and KCl. The increase of dielectric const. of the solvents was accompanied by "summary dipole moment" increases as calcd. by $Z_{\mu} = \mu_o x + \mu_p (100 - x)$, where μ_o was the dipole moment of *o*-O₂NC₆H₄OH, μ_p the dipole moment of *p*-O₂NC₆H₄OH, and x the % *o*-O₂NC₆H₄OH in the mixed product. When log Z_μ was plotted against log D, a straight line resulted. The dependence of the dipole moment on the dielec. const. was shown by $\mu_o = \mu_p [1 + A(D - 1)/D + 2]$, where μ_o was the moment of the mol. in the solvent having dielec. const. D., μ_p the moment of the same mol. as vapor, and A its characteristic const. Log $\mu_o/D = f(\log D)$ was also a straight line, but only for small values.

S. Berger

Jof

SECRET

TARNAWSKI, Eustachy

Continuous nondifferentiable function. Mater fiz chem Gdansk
2 33-45 '62.

1. Katedra Analizy Matematycznej, Wyzsza Szkola Pedagogiczna,
Gdansk.

TARNAWSKI, Henryk, mgr inż.

Kazimierz Straszewski; an obituary. Energetyka Pol 14 no.2:
55-56 '60. (ERAI 9:6)
(Straszewski, Kazimierz) (Electrical engineers, Polish)

CZYZEWSKI, K.; FALKIEWICZ, A.; PACYNSKI, TARNAWSKI, S.; TARNAWSKA, S.

**Endemic goiter in Lower Silesia. Postepy hig. med. doswiadc., Warsz.
5:203-228 1952. (CLM4L 23:2)**

**1. Of the Second Internal Clinic and of the First Surgical Clinic of
Wroclaw Medical Academy and of Wroclaw Central Regional Infirmary for
Thyroid Diseases.**

CZYZEWSKI, Kazimierz; FALKIEWICZ, Antoni; PACYNSKI, Adam; TARNAWSKI,
Stanislaw.

Evaluation of iodine in prevention of goiter in Upper Silesia.
I. Evaluation of iodine in Walbrzysk region. Arch.immun.ter.dosw.
2:49-61 1954.

1. I Klinika Chirurgiczna Akademii Medycznej we Wroclawiu. Dyrek-
tor: prof. dr K. Czyzewski) II Klinika Chorob Wewnętrznych,
Akademii Medycznej we Wroclawiu. (Dyrektor: prof. dr A. Falkiewicz)
(IODINE, therapeutic use,
goiter prev. in Poland, iodized salt)
(GOITER, prevention and control,
iodized salt, in Poland)

KNAPIK, Zbigniew; TARNAWSKI, Stanislaw

Prolonged ventricular asystole in myocardial infarction in a case of diabetes; clinical and electrocardiographic picture. Polski tygod. lek. 9 no.31:975-979 2 Aug 54.

1. Z Oddzialu Wewnetrznego A Szpitala Miejskiego im. J.Babinakiego we Wroclawiu. Zaklad Interny Oddzialu I.D. i S.K.L. we Wroclawiu; ordynator doc. dr med. Jozef Kaniak.

(DIABETES MELLITUS, complications,
myocardial infarct with ventric. asystole)

(HEART DISEASE,
ventric. asystole in myocardial infarct in diabetes mellitus)

(MYOCARDIAL INFARCT, complications,
ventric. asystole in diabetes mellitus)

POLAND/Human and Animal Physiology (Normal and Pathological)
Internal Secretion. Thyroid Gland. T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79750.

Author : Czyzewski, Kazimierz.; Falkiewicz, Antoni.;
Pacynski, Adam.; Tarnawski, Stanislaw.

Inst :

Title : Endemic Goiter in Lower Silesia. LV.

Orig Pub: Arch. immunol. i terap. doswiadc., 1956 (1957),
4, 275-285.

Abstract: No abstract.

Card : 1/1

POLAND/Human and Animal Physiology. Circulation

T-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65230

Author : ~~Krapik~~ Zbigniew, ~~Tarnawski~~ Stanislaw

Inst : -

Title : An Electrocardiographic Study of the Effect of Ergotamine
on Disturbances in Intraventricular Conduction.

Orig Pub : Polski tygod. lekar., 1957, 12, No 26, 996-998

Abstract : In one case of combined first degree A-V block and right bundle branch block, intramuscular injection of 0.5 mg gynergen resulted in a temporary worsening of A-V conduction (second and third degree block) and improvement of intraventricular conduction (normalization of the duration of the QRS complex). This contradicts the commonly accepted notion of a positive deomotropic effect of increased tonus of the sympathetic system upon all divisions of the heart.--N.A. Magazanik

Card : 1/1

TARNAWSKI, Stanislaw
KNAPIK, Zbigniew; TARNAWSKI, Stanislaw

Primary aneosinophilia. Polski tygod. lek. 12 no.41:1575-1579 14 Oct 57.

1. Z Zakladu Chorob Wewnetrznych Instytutu Doskonalenia i Specjalizacji
Kadr Lekarskich, Oddzial we Wroclawiu na bazie Szpitala im. J. Babinskiego;
kierownik: doc. dr med. J. Kaniak i z Wojewodzkiej Poradni Chorob Tarczycy
we Wroclawiu; kierownik: dr med. A. Pacynski. Adres: Wroclaw 5, ul.
Chorzowska 2/2.

(EOSINOPHIL COUNT,
aneosinophilia, primary (Pol))

POLAND/Human and Animal Physiology - Blood. Blood Diseases.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12715

Author : Knapik, Zbigniew; Tarnawski, Stanislaw

Inst : -

Title : Primary Aneosinophilia

Orig Pub : Polski tygod. lekar., 1957, 12, No 41, 1579-1581

Abstract : In patients with Graves's-Bazedov's disease and chronic cholecystitis for 2½ years no eosinophiles were observed in the peripheral blood or in the blood marrow. The blood was studied during the period of exacerbation of the disease, the stage of remission, and the period of allergic manifestations. Aneosinophilia was considered a primary condition of unknown etiology. Evidently is related to an anatomical or biochemical anomaly. --
A.D. Zhuchkova

Card 1/1

FALKIEWICZ, Antoni; TARNAWSKI, Stanislaw

FALKIEWICZ, Antoni; TARNAWSKI, Stanislaw

Thiouracil goiter; thyroid size in patients with Graves and Basedow's syndrome treated with methylthiouracil. Polskie arch. med. wewn. 27 no.2:153-168 1957.

1. Z II Kliniki Chorob Wewnętrznych A.M. Kierownik: prof. dr. med. A. Falkiewicz i Wojew. Poradni Chorob Tarczycy we Wrocławiu Kierownik: dr. med. A. Paczynski. Adres autora: Wrocław, II Klinika Chorob Wewnętrznych A.M., ul. Pasteura 4.

(THIOURACIL, related cpds.

methylthiouracil ther. of hyperthyroidism causing goiter (Pol))

(GOITER, etiol. & pathogen.

methylthiouracil ther. of hyperthyroidism (Pol))

(HYPERTHYROIDISM, ther.

methylthiouracil, causing goiter (Pol))

CZYZEWSKI, Kazimierz; FALKIEWICZ, Antoni; PACYNSKI, Adam; TARNAWSKI, Stanislaw

The present state of goitre in Lower Silesia (Results of nine years iodine prophylaxis). Arch.immun.ter.dosw. 9 no.3:465-476 '61.

1. I,Surgical Clinic, School of Medicine, Wroclaw; II, Clinic of Internal Diseases, School of Medicine, Wroclaw; and the Voivodship Dispensary for Diseases of the Thyroid Gland, Wroclaw.

(GOITER epidemiol) (IODINE ther)

FALKIEWICZ, Antoni; PACYNSKI, Adam; TARNAWSKI, Stanislaw

Hypertension among the population of Lower Silesia. Pol. tyg. lek. 17
no.8:281-284 19 F '62.

1. Z II Kliniki Chorob Wewnętrznych AM we Wrocławiu; kierownik: prof.
dr Antoni Falkiewicz oraz z Wojewodskiej Poradni Chorob Tarczycy we
Wrocławiu; kierownik: dr med. Adam Pacynski.

(HYPERTENSION statist)

TARNAWSKI, T.

Calculation of oblique slabs. p. 29. (Instytut Techniki Budowlanej)
Warszawa Vol. 11, no. 2, Feb. 1956 DROGOWNICTWO

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

TARNAWSKI, Zbigniew, mgr. inż.

Drying of paper and calculation of the drying surface of the paper machine. Przegl papier 18 no.7:218-222 JI '62.

1. Katedra Papiernictwa i Maszyn Papierniczych, Politechnika, Lodz.

STERA, Slawomir, mgr inż.; TARNAWSKI, Zbigniew, mgr inż.

Problems of specialization and technical progress in the
cellulose-paper industry. Przegl papier 18 no.10:326-327
0 '62.

1. Katedra Papiernictwa i Maszyn Papierniczych, Politechnika,
Lodz.

TARNAY, E.

Correct completion of monthly reports on railroad transportation. p/131.

(EPI TOANYAG, Budapest, Vol. 9, no. 10, March, 1953.)

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan 1955,
Uncl.

TERNAY, Gyula; TOTH, Károly

Nonegrams of the characteristic equations of nonstationary 1960
surface water movements. Mat. kut. köz. MTA 8 Series B 60,4:63-
640 '63(publ. '64).

TUREK, Endre, dr.; TARNAY, Judit, dr.

TOREK, Endre, dr.; TARNAY, Judit, dr.

Inguinal hernia in childhood. Orv. hetil. 98 no.14:351-353 7 Apr 57.

I. A Hevesmegyei Tanacs Korhaza (igazgato: Bocz, Sandor, dr.)
II. sz. Sebészeti Osztalyanak (foorvos: Poka, László, dr.)
közleménye.

(**HERNIA, INGUINAL**, in inf. & child
surg., indic. technics & follow-up (Hun))

TARNAY, K.

"Nonlinear Distortion of Output Transformers" p. 135 (Magyar Híradástechnika, Vol. 4,
No. 9/10, Sept./Oct., 1953, Budapest)

SO: Monthly List of East European Accessions / Library of Congress, March 1954 1977, Uncl.

TARNAY, K.

"A Theory Relative to the Reflex Klystron", p. 157 (MAGYAR HIRADASTECHNIKA, Vol. 4, no. 11/12, Nov./Dec. 1953, Budapest, Hungary).

Source: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001755010019-2
CIA-RDP86-00513R001755010019-2"

TARNAY, K.

Measurement of output power of electron tubes, p. 65. MAGYAR
HIRADASTECHNIKA, (Hiradastechnikai Tudományos Egyesület) Budapest.
Vo. 7, No. 3. June 1956

SOURCE: EEAL IC Vol. 5 No. 11 Nov. 1956

TARNAY, K.; JUHASZ, E.

Theory of concentration determination by high frequencies. In English.
p. 275.

PERIODICA.POLYTECHNICA. CHEMICAL ENGINEERING. (Budapesti Muszaki Egyetem.)
Budapest, Hungary. Vol. 2, no. 4, 1958.

Monthly list of East European Accessions (EEAI) LC, vol. 8, no. 2, ^{July}1959.

Uncl.

TARNAY, K.

"A new phase-sensitive-indicator arrangement for alternating-measuring bridges." In German, p. 333

PERIODICA POLYTECHNICA (Budapesti Muszaki Egyetem) Budapest, Hungary
Vol. 2, No. 4, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

TARNAY, K.

"Layer-thickness measurement of enamel-covered wire." In English, p.355

PERIODICA POLYTECHNICA. (Budapesti Muszaki Egyetem) Budapest, Hungary
Vol. 2, No. 4, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

78. Application of the Network Theory to the Theory of Vacuum Tube Feedback Oscillators.² (In English) K. Tarnay. Acta Technica Academiae Scientiarum Hungaricae, Vol. 21, 1958, No. 3--4, pp. 307--361, 14 figs.

The oscillator analysis based on the general network theory discussed in this paper shows that with feedback oscillators, the oscillating condition where the tube characteristic is quasilinear is uniquely defined by the average transconductance of the tube and by a single parameter of the four-terminal feedback network, the transfer admittance. Derivations of LC oscillator circuits on the basis of the results obtained for the four-terminal feedback network and expressions for the conditions of sustained oscillations and the frequency of oscillation of two generally used RC type oscillators re described. The oscillations of feedback oscillators are examined in literature on the basis of the condition $A\beta=1$. A in this condition for oscillation depends on the characteristics of the applied electron tube and the circuit while the feedback factor β depends on that of the circuit. With circuits containing a single electron tube -- but frequently with multi-tube oscillators too -- mor eprecise results can be obtained if the condition of oscillation is so derived that one of the two parameters depends only on the tube while the other only on the circuit. In this synthesis the tube is represented by its transconductance and the circuit by its transfer admittance.
(Retyped clipped abstract)

jw

Card 1/1

Tarnay, K.; Prinkl, H.; Ambrozy, A.

Continuous measuring of layer thickness of enamel-covered wires during manufacturing process. p.56

MERES ES AUTOMATIKA. (Merstechnikal es Automatizalasi Tudomanyos Egyesulet)
Budapest, Hungary. Vol.7, no.2/3, 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11
November 1959
Uncl.

TARNAY, Kalman

Measuring negative resistances. Meres automat 9 no.7:208-212 '61.

1. Tudományos főmunkatárs, Merestechnikai Központi Kutató Laboratórium,
és "Meres és Automatika" szerkesztő bizottsági tagja.

TARNAY, Kalman, tudományos főmunkatárs

New method for measuring small capacity changes. Meres automat
9 no.10:290-299 '61.

1. Merestechnikai Központi Kutató Laboratórium, és Szerkesztő
bizottsági tag, "Mérés és Automatika."

TARNAY, Kalman

Tunnel diodes. Magy hir techn 12 no.6:229-237 D '61.

1. Merestechnikai Kozponti Kutato Laboratorium.

H/012/62/000/005/001/001
D286/D308

6.4600

AUTHOR: Tarnay, Kálmán, Doctor

TITLE: Determining the life expectancy of electronic equipment.

PERIODICAL: Mérés és automatika, no. 5, 1962, 140-147

TEXT: The mathematical theory of reliability of components and electronic equipment and methods for estimating and calculating life expectancy are discussed. The component fault ratio is expressed as the product of two quantities. The first is constant for every particular type of component, and depends on the manufacturing technique and mechanical load. The variable factor is a function of the ambient temperature and of the electrical load. The reliability of a component is determined by the probability that after a defined period of time the component is still in working order. The product of the probability figures of the components gives the resultant probability and hence the reliability of the equipment. The life

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Determining the life expectancy ...

H/012/62/000/005/001/001
D286/D308

expectancy is also characterized by the mean time between failures. Using the latter concept two statistical methods of estimating and two methods of calculating the life expectation are described. Finally the effect of the temperature on the life expectancy is discussed. There are 14 figures and 4 tables. The most important English-language references read as follows: Henney (ed): Reliability factors for ground electronic equipment. McGraw Hill, N.Y., 1956, 8-1 and 8-2. J.J. Maresky: Numerical approach to electronic reliability Proc. IRE, 1959, May, 946-956. K

ASSOCIATION: Méréstechnikai központi kutató labororium (Central Research Laboratory for Measurement Techniques)

SUBMITTED: March 28, 1962

Card 2/2

TARNAY, Kalman

Up-to-date designing viewpoints of electronic instruments. Meres automat 10 no.2:58 '62.

1. Tudományos főmunkatárs, Merestechnikai Központi Kutató Laboratórium, és "Meres és Automatika" szerkesztő bizottsági tagja.

TARNAY, Kalman, dr.

The 1961 achievements in measurement and instrument technology
as well as in automation. Meres automat 10 no.4:102 '62.

1. "Meres es Automatika" szerkeszto bizottsaganak tagja.

TARNAY, Kalman, dr.

Use of semiconductors in the measurement technology and automation.
Meres automat 10 no.4:106-108 '62.

1. "Meres es Automatika" szerkeszto bizottsagi tagja.

TARNAY, Kalman, dr.

Communication by the Section for Industrial Electronic
Installations. Meres automat 12 no. 2:60 '64.

1. "Iprai Elektronikus Berendezesek" Szakosztaly vezetője;
"Meres es Automatika" szerkeszto bizottsagi tagja.

TARNAY, Kalman, dr.

Development trends of semiconductor direct-alternating
voltage converters. Meres automat 12 no.4/5:100-103 '64.

1. Central Research Laboratory of Measuring Techniques;
Editorial board member, "Meres es Automatika."

ALMASSY, Gyorgy, dr.; BOROMISZA, Gyula; FERENCZY, Jeno; HAAS, Andras; JUHASZ, Endre; KEMENY, Tamas; KOVACS, Ivan; LESZTAR, Jozsef; LUKACS, Gyula, dr.; PETIK, Ferenc; SZLAVIK, Ferenc; SZOMBATHY, Emil, dr.; TARNAY, Kalman, dr.

Lectures delivered at the 3d International Measurement Conference.
Meres automat 12 no.9:270-292 '64.

1. Editorial board member, "Meres es Automatika" (for Almassy, Boromisza, Juhasz, Kemeny, Lukacs and Tarnay).

TARNAY, Kalman, dr.

Zener diodes. Pt.1. Mérés automat 13 no.4:124-125 '65.

1. Editorial Board Member, "Mérés és Automatika."

ACC NR: AP6030504

SOURCE CODE: HU/0012/66/000/003/0091/0093

AUTHOR: Tarnay, K.--Tarnai, K. (Doctor)

ORG: none

TITLE: Applications of semiconductors. Tunnel diodes. Part 2

SOURCE: Meres es automatika, no. 3, 1966, 91-93

TOPIC TAGS: tunnel diode, electronic circuit

ABSTRACT: The applications of tunnel diodes in pulse technology were discussed in a generalized manner. A few typical circuits were described. The principal advantages of tunnel diodes in these applications are high speed, simple circuitry, low energy requirement, and ability of being produced at close tolerances. Orig. art. has: 9 figures. [JPRS: 36,644]

SUB CODE: 09 / SUBM DATE: 06Dec65 / OTH REF: 007

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0918 1582

TARNAYNE Bartfay, Eva; TARNAY, Katalin

The Hall generator and its application in measurement technology and automation. Meres automat 9 no.8-9:252-258 '61.

1. Budapesti Muszaki Egyetem Vezetokes Hivadastechnikai Tan-
sok (for Tarnayne Bartfay). 2. Beleiannisz Hivadastechnikai
Gyar Atviteltechnikai Gyartmany-tervezesi Osztaly (for
Katalin Tarnay).

TARNAY, Katalin; TARNAYNE BARTFAI, Eva

The Hall generator and possibilities of its use in transmission engineering. Magy hir techn 12 no.5:194-201 0 '61.

1. Beloianniszi Híradastechnikai Gyar; Híradastechnikai Tudományos Egyesület tagja (for Katalin Tarnay). 2. Budapesti Műszaki Egyetem Vezetékes Híradastechnikai Tanszék; Híradastechnikai Tudományos Egyesület tagja (for Tarnayne Bartfai).

TARNAY, Katalin, oklevsles villamosmernok

Analogue-digital high-speed converters in nuclear measuring technique. Meres automat 13 no.4:101-105 '65.

1. Central Research Institute of Physics of the Hungarian Academy of Sciences, Budapest.

TARNAYNE Bartfay, Eva; TARNAY, Katalin

The Hall generator and its application in measurement technology and automation. Meres automat 9 no.8-9:252-258 '61.

1. Budapesti Muszaki Egyetem Vezetekes Hivadastechnikai Tan-
s:sek (for Tarnayne Bartfay). 2. Belciannisz Hivadastechnikai
Gyar Atviteltechnikai Gyartmany-tervezesi Osztaly (for
Katalin Tarnay).

TARNAY, Katalin; TARNAYNE BARTFAI, Eva

The Hall generator and possibilities of its use in transmission engineering. Magy hir techn 12 no.5:194-201 0 '61.

1. Beloianniszi Híradástechnikai Gyár; Híradástechnikai Tudományos Egyesület tagja (for Katalin Tarnay). 2. Budapesti Műszaki Egyetem Vezetékes Híradástechnikai Tanszék; Híradástechnikai Tudományos Egyesület tagja (for Tarnayne Bartfai).

SANTIBANEZ, G.; TARNECKI, R.; ZERNICKI, B.

Correlation between the effect of hypothalamic stimulation on EEG and on pupil dilatation in the preparation cerveau isole and pretrigeminal in cats. Acta physiol.polon.11 no.5/6:881-882 '60.

1. Z Zakladu Neurofizjologii Inst.Biol.Dosw. im. M.Nenckiego
Kierownik: prof.dr J.Konorski.
(HYPOTHALAMUS physiol)
(PUPIL physiol)
(BRAIN physiol)

SANTIBANEZ, G.; TARNECKI, R.; ZERNICKI, B.; KONORSKI, J.

Cortical representation of the chorda tympani in dogs. Acta physiol.
polon. 11 no.5/6:882-883 '60.

1. Z Zakladu Neurofizjologii Inst.Biol.Dosw. im. M.Henckiego
Kierownik: prof.dr J.Konorski.
(CEREBRAL CORTEX anat & histol)
(PONS anat & histol)

TARNECKI, R.

Conditioned reflexes of the 2d type produced by means of electrical stimulation of the motor area of the cerebral cortex. Acta physiol. polon. 11 no.5/6:896-897 '60.

1. Z Zakladu Neurofizjologii Inst.Biol.Dosw.za. M.Henckiego
Kierownik: prof.dr J.Konorski.
(REFLEX CONDITIONED)
(CEREBRAL CORTEX physiol)

TARNECKI, R.

The formation of instrumental conditioned reflexes by direct stimulation of sensori-motor cortex in cats. Acta biol. exp. 22 no.2:35-45 '62.

1. Department of Neurophysiology, The Nencki Institute of Experimental Biology, Warsaw, Poland.
(REFLEX, CONDITIONED) (CEREBRAL CORTEX physiology)

TARNECKI, R.

The effect of medial lemniscal lesions on the instrumental conditioned reflexes in cats. Acta biol. exp. 22 no.3:147-156 '62.

1. Department of Neurophysiology, The Nencki Institute of Experimental Biology, Warsaw, Poland.
(REFLEX, CONDITIONED) (MEDULLA OBLONGATA)

TARNECKI, R.

The effect of lesions in the ventromedial and/or ventrolateral
thalamic nuclei on instrumental conditioned reflexes in cats.
Acta biol. exp. 22 no.4:259-268 '62.

1. Department of Neurophysiology, The Nencki Institute of Experimental
Biology, Warsaw, Poland.
(THALAMUS) (REFLEX, CONDITIONED)

LYUBCHUDROV, V.Ye.; ONOPKO, B.N.; BASAMYGINA, L. Ya.; TARNER, M.V.;
TITOVA, A.N. (Donetsk).

Frequency and clinical manifestations of the vibration disease
of miners in some coal mines of the Donets Basin. Gig. truda
i prof. zab. 7 no.3:23-29 Mr'63 (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut fiziologii truda i
Donetskiy meditsinskiy institut.

PHASE I BOOK EXPLOITATION

SOV/4872

Tarnetskiy, Aleksey Aleksandrovich and Dmitriy Dmitriyevich Osipov

Antenny sudovoy radiosvyazi (Antennas for Ship Radio Communications)
Leningrad, Sudpromgiz, 1960. 234 p. 4,800 copies printed.

Scientific Ed.: L.P. Kuptsova; Ed.: R.D. Nikitina; Tech. Ed.: L.M. Shishkova.

PURPOSE: This book is intended for specialists who design, construct, and operate radio-communication equipment aboard ships of the merchant-marine and river fleets. It may also serve as a manual for students in tekhnikums, nautical schools, and related schools of higher education, as well as for ship radio operators.

COVERAGE: The authors discuss fundamental rules of the development and design of shipboard antennas and feeders, their selection from a quantitative as well as a qualitative point of view, and the arrangement of the antennas aboard ships of various classes and types. Concise information is presented on the structure and mounting of antenna-feeder assemblies and on computation methods for the wave bands which have been used in naval radio communications.

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Antennas for Ship Radio Communications

SOV/4872

The authors thank Engineer S.S. Portnoy, Stalin Prize Winner, M.K. Karagin, and B.V. Braude, Doctor of Technical Sciences, for their help and advice. There are 49 references, all Soviet.

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ACCESSION NR: AT4016075

S/2698/63/000/000/0292/0296

AUTHOR: Tarnetskiy, V. B.

TITLE: Increasing the strength of ML5 alloy castings by changing the conditions of thermal heat treatment

SOURCE: Soveshchaniye po teorii liteyny*kh protsessov. 8th, 1962. Mekhanicheskiye svoystva litogo metalla (Mechanical properties of cast metal). Trudy* soveshchaniya. Moscow, Izd-vo AN SSSR, 1963, 292-296

TOPIC TAGS: zinc alloy, aluminum alloy, heat treatment, magnalium, casting, magnesium alloy, alloy casting, cast alloy strength

ABSTRACT: Most castings of magnesium-based alloys are made of alloy ML5, the strength of which compares favorably with that of Al alloys. The ultimate strength of Mg-Al-Zn alloys may be increased still further by using modifiers which guarantee finer grains than the carbon-containing modifiers and by increasing the degree of solution of Al and Zn. In the present paper, a three-stage heat treatment procedure was worked out to improve the crystal structure of the ML5 alloy. The blanks were loaded into an oven at a temperature not exceeding 150-200C, after which the temperature was increased to 340+4C for 2 hours, then

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ACCESSION NR: AT4016075

to 370+4C for at least one hour, and finally to 425+4C for at least two hours with a time-lag of 8-10 hours. It was found that the mechanical properties were higher after 3-stage heat treatment than after the usual one-stage procedure, as shown in Fig. 1 of the Enclosure. For one-stage heat treatment 73.5% of the tested samples fulfilled the specifications or requirements for ultimate strength, while 93.7% of the three-stage heat treatment samples conformed to the specifications; with respect to relative elongation, 93.3% and 97.0%, respectively, conformed to specifications. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 01

SUB CODE: MM

NO REF SOV: 003

OTHER: 000

ACCESSION NR: AT4016075

ENCLOSURE: 01

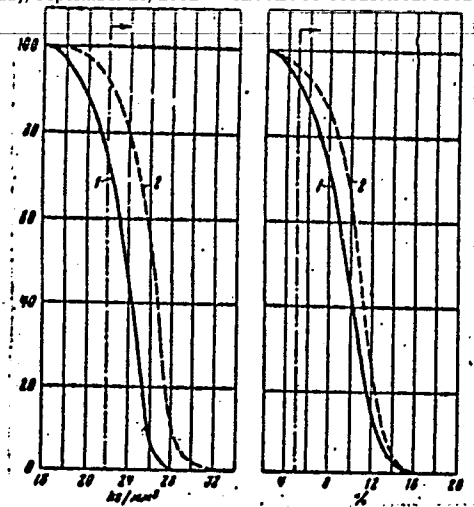


Figure 1.
Integral curves of the frequency of distribution of mechanical properties of ML5 alloy following different heat treatments:
1 - one-stage; 2 - three-stage

FILDISEVSKI, P.; TARNIK-MITREVA, Lj.; JANEVA, S.

Neuromyelitis optica (with report of a case). Neuropsihijatrija 8
no.1/2:86-96 '60.

1. Neuropsihijatrijska klinika (Upravnik: Prof. dr. B.Niketic) i
Očna klinika (Upravnik: dr. A.Keckarovski) Medicinskog fakulteta
Skopje

(MYELITIS)
(OPTIC NERVE dis)

TARNISHEVSKIY, B.V.

Atmospheric transparency at certain points in Turkmenia based on actinometric observation data. Trudy Inst. fiz. i geofiz. AN Turk. SSR 3:82-90 '57. (MIRA 10:9)

(Turkmenia--Atmospheric transparency)

TARASOVA, Ye.M.; MURAV'YEVA, M.Ya.; TARNIZHEVSKAYA, T.M.

Corrosion of concrete made of Bezmein portland cement and of local
Turkmen fillers in sulfate and magnesian aggressive media. Trudy
Inst. antiseism. stroi. AN Turk. SSR no.2:90-107 '58.

(MIRA 17:6)

TARNIZHEVSKIY, B.V.

Amount of direct solar radiation at four places in Turkmenistan.
Trudy Inst. fiz. i geofiz. AN Turk. SSR 4:33-49 '58. (MIRA 11:9)
(Turkmenistan--Solar radiation)

TARNIZHEVSKY, B.V.

THIRD I BOOK EXPLORATION
SIF/MS3
SOF/2-2-76

Leningrad. Glavnaya geofizicheskaya observatoriya.
Voprosy metodiki meteorologicheskikh nablyudeniya i sablyudeniya v Antarktide.
(Problems of Meteorological Observation Methods and of Observations in Ant-
arctica) Leningrad, Gidrometeoizdat, 1971. 102 p. (Series: LIII Trudy,
vyp. 96) Earth slip inserted. 1,200 copies printed.

Sponsoring Agency: U.S.S.R. Glavnaya upravleniya gidrometeorologicheskoy
sluzhby pri Sovetskiy Ministrov.
Ed. (Title page): Z.I. Pivovarov, Candidate of Geographical Sciences;
Ed. (Inside book): T.V. Ushakov; Tech. Ed.: M.V. Volter.

PURPOSE: The publication is intended for meteorologists working in offices of the
Hydrometeorological Service and in hydrometeorological stations.
COVERAGE: This is a summary of 11 articles, published as No. 96 of the Tran-
sactions of the Main Geophysical Observatory named A.I. Voznyakov. Several
articles are devoted to special features in the distribution of meteorological
elements and the radiation condition in the USSR and in Antarctica. Other
articles analyze methods of meteorological and actinometric observations
and the processing of their results. References are given at the end of
each article.

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AVAILABLE: Library of Congress.

80V50-59-2-21/25

3(7), 3(3)
AUTHORS:

Anapol'skaya, L. Ye., Gendin, L. S.

Conference on Applied Climatology (Sovetskuniye po priklad-
noy klimatologii)

Meteorologiya i gidrologiya, 1959, Br 2, pp 69 - 70 (USSR)

PERIODICAL:

ABSTRACT:

Between October 27 and 31, 1958 a Conference on Applied Climatology was held at the Glavnaya geofizicheskaya observatoriya in A. I. Vovkova (Main Geophysical Observatory named A. I. Vovkov). The conference was convened by the request of the Glavnaya upravleniya gidrometeorologicheskoy sluzhby (Main Administration of the Hydrometeorological Service). 91 institutes participated, among them scientific research institutes of the Hydrometeorological Service, 20 institutes of various administrations, and 12 scientific research institutes of various authorities. In all, participation amounted to 254 persons. 21 papers were read. V. P. Pastukh, the secretary, O. M. Bravator on space and time characteristics of the climate, I. M. Sokolov on the use of the calculation technique, and I. M. Sokolov on the work accomplished in the field of applied climatology of the Northeast of the USSR. For the determination of temperatures for the purpose of calculating the five cold days on the basis of the data of the monthly average temperature of the coldest month of the year. G. M. Vasilov suggested in his paper some principles by means of which the territory of the USSR should be divided in regions (for the planning of living quarters). V. K. Il'initskiy gave a survey of the requirements made of climatic data in regard of the projecting of protected structures. L. Ye. Anapol'skaya and L. S. Gendin proposed for the determination of the frequency of high wind velocities the gust coefficient based on the spectrum theory of turbulence calculations. A. G. Gerasimov gave a survey of the requirements made of climatic data in calculating wind and snow loads on buildings. G. I. Chirabadae reported on the experience made in the consideration of the climate of health resorts in the Caucasus in planning and construction.

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A. G. Gerasimov proposed a method for the analysis of the climate of health resorts based on a general climatological approach. G. A. P. Gerasimov presented some climatic characteristics of the health resorts from the point of view of therapeutic conditions. E. K. Kurovsky studied the influence of meteorological conditions on the Caucasian mineral springs. V. V. Kozlovskaya reported on climatological investigations for the purpose of modernizing and streamlining living conditions (heating, clothing). V. Ye. Il'initskiy proposed a map of actual temperatures for the European part of the USSR. S. V. Tarnizhevskiy spoke on the "Consideration of the Influence the Operation of Solar Power Plants". E. M. Kozlovskaya spoke on "The Wind Energy Reserves of the Pribaltic Sea". V. S. Samoylov submitted abstracts climatological characteristics for sea and lake conditions. A. I. Sorokin reported on the use of climatic data for immediate estimates of the wind and wave conditions on seas and oceans. B. V. Tarnizhevskiy gave a survey of the tasks of and requirements made of marine climatology for the security of sea navigation.

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TARNIZHEVSKIY, B. V., Cand Tech Sci -- (diss) "Applicability of solar devices in dependence upon the radiational system." Moscow, 1960. 16 pp; 1 page of illustrations; (Academy of Sciences USSR, Power Inst in G. M. Krzhizhanovskiy); 200 copies; price not given; (KL, 52-60, 121)

PHASE I BOOK EXPLOITATION

SOV/4642

Akademiya nauk SSSR. Energeticheskiy institut

Teploenergetika, vyp. 2: Ispol'zovaniye solnechnoy energii (Heat Power Engineering, No. 2: Use of Solar Energy) Moscow, 1960. 195 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Energeticheskiy institut imeni G.M. Krzhizhancovskogo.

Resp. Ed.: V.A. Baum, Doctor of Technical Sciences, Professor; Ed. of Publishing House: G.B. Gorshkov; Tech. Ed.: I.N. Dorokhina.

PURPOSE: The publication is intended for power engineers and economists interested in the industrial utilization of solar energy.

COVERAGE: This collection of 19 articles is a continuation of an earlier work published under the same title in 1957. The articles present results of investigations conducted in the USSR during the last three years at the Laboratory on the Use of Solar Energy and Wind in the Energeticheskiy institut AN SSSR (Power Engineering Institute of the AS USSR). Problems

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Heat Power (Cont.)

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in determining the operational indices of solar engines, depending upon the amount of solar energy received, are analyzed. No personalities are mentioned. References follow each article.

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AVAILABLE: Library of Congress

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JA/dwm/sfm
2/6/61

TARNIZHEVSKIY, B.V.

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PHASE I BOOK EXPLOITATION SOV/5729

Leningrad. Glavnaya geofizicheskaya observatoriya.

Voprosy prikladnoy klimatologii; sbornik statey (Problems in Applied Climatology; Collection of Articles) Leningrad, Gidrometeoizdat, 1960. 159 p. Errata slip inserted. 1,050 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR. Glavnaya geofizicheskaya observatoriya im. A. I. Voyeykova.

Ed. (Title page): F. P. Davitay, Doctor of Agricultural Sciences; Ed.: L. P. Zhdanova; Tech. Ed.: N. V. Volkov.

PURPOSE: This publication is intended for applied climatologists and planners in climate-dependent industries.

COVERAGE: This collection of 18 articles contains reports originally presented at the Conference on Applied Climatology in Leningrad in October 1958. The purpose of the conference was to summarize the results of research done in the field of applied
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Problems in Applied Climatology (Cont.) 304/5729

climatology and to point the way for further investigations. Individual articles deal with general problems in applied climatology and special problems in engineering and industrial climatology, medical and health resort climatology, climatic energy resources, and marine climatology. No personalities are mentioned. References follow individual articles.

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Sapozhnikova, S. A. [Nauchno-issledovatel'skiy institut aeroklimatologii -- Scientific Research Institute of Aeroclimatology] On Gard 2/7

Problems in Applied Climatology (Cont.)

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Vadkovskaya, Yu. V. and K. A. Rappoport [Institut obshchey i kommunal'noy gigieny im. Syaina AN AMN SSSR -- Institute of General and Municipal Hygiene imeni Syain AS Academy of Medical Sciences USSR], and L. A. Chubukov, and Ya. I. Fel'dman [Institut of Geography AS USSR]. Climatic Physiological Basis for Regionalizing the USSR for Purposes of Clothing Hygiene 120

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Tarnichevskiy, B. V. [Energeticheskii institut AN SSSR - Power Engineering Institute AS USSR]. Consideration of Some Characteristics of Radiation Climate Affecting the Operation of Solar Power Plants 138

Aklmovich, N. N. [Odesskiy gidrometeorologicheskii institut - Odessa Hydrometeorological Institute]. Wind Resources of the Gard 6/7

8/058/62/000/008/131/134
A160/A101

AUTHOR: Tarnizhevskiy, B. V.

TITLE: The possibilities of using semiconductor converters of solar power in the southern districts of the USSR

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 44, abstract 8-3-87p
(In collection: "Teploenergetika": No. 3, Moscow, AN SSSR, 1961, 7 - 12)

TEXT: An investigation is carried out of the properties of photobatteries and thermoelectric generators with a view of utilizing solar power. The generation of electric power with solar photobatteries which are horizontally arranged and somewhat inclined to the horizon is determined. The photocells utilize the sum of the direct radiation on the horizontal surface and the scattered radiation of the firmament. The generation of electric power per area unit of the photobattery W is determined by the relationship $W = \eta Q$, where Q is the total radiation, and η - the efficiency of the photocells, depending on the density of the radiation flux. When calculating W , the average annual value of the radiation

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flux and the average all-year value η are usually used. An annual chart on the generation of power in kilowatt-hours per 1 m^2 of the surface of photocells is presented for the southern part of the USSR. This chart reveals that the annual generation for the southern part of the USSR varies from 110 to 160 kva·hour/ m^2 . In case the plane of the photocells is inclined at 30° to the horizon, the quantity of radiation is 14% higher than with a horizontally-arranged plane. The generation of electric power by means of solar thermoelectric generators using for preheating the radiation entering continuously for more than 5 - 10 minutes is determined. The dependence of the efficiency of thermoelectric generators on the density of the radiation flux S is more pronounced than in photocells. On the basis of the quantity of utilized electric power and the efficiency of the generator, a calculation was carried out of the monthly and annual generation of power by means of solar thermoelectric generators in kilowatt-hours per 1 m^2 for 8 southern points of the USSR. Presented are curves of the relation between the monthly generation of power with a thermoelectric generator and the duration of the sunshine and the total of the direct radiation. There are 5 references. ✓

[Abstracter's note: Complete translation]

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SOURCE CODE: UR/0317/65/000/003/0030/0033

AUTHORS: Tarnizhevskiy, B. V.; Razgovorov, A. D.; Savchenko, I. G. 35
8

ORG: All-Union Order of Labor Red Banner Scientific Research Institute of Current
Technologies

TITLE: Investigation of optical and power characteristics of a solar radiation
concentrator manufactured by the "bulge" method

SOURCE: Geliotekhnika, no. 3, 1965, 30-33

TOPIC TAGS: solar radiation, solar furnace, experimental method, optic method

ABSTRACT: The optical and power characteristics of a solar furnace concentrator
are investigated. The concentrator is made by the "bulge" method, using sheet mate-
rial under an equilibrium load. This gives the concentrator an approximately
parabolic shape. The radiant flux density along the focal image for a parabolic
concentrator is given by

$$E_r = C_1 e^{-C_2 r^2}$$

where r is the distance from the optical axis. To verify this experimentally, a

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continuous-flow calorimeter is placed on the focal point of the concentrator with a collection of diaphragms to locate the beam along the focal image. The measurement results are plotted as E (the radiant flux density) versus distance from the optical axis r . When compared with the above theoretically derived formula, the agreement is found to be quite poor. For the "bulged" concentrator, the results show a sharp peak of E on the optical axis. Orig. art. has: 3 figures and 2 formulas.

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TARNIZHEVSKIY, M.V.

Measurement of contact resistance between streetcar tracks and
the ground. Sbor. nauch. rab. AKKH no.2:5-15 '60. (MIRA 15:5)
(Electric railroads--Wires and wiring)

TARNIZHEVSKIY, M.V.

Calculation of the leakage of traction currents from the rails of
electric railroads. Sbor.nauch.rab.AKKH no. 4. Zashch.podzem.socr.ot
kor no.2:18-35 '60. (MIRA 15:7)
(Electric railroads) (Electrolytic corrosion)

STRIZHEVSKIY, I.V.; TARNIZHEVSKIY, M.V.

Taking measures to limit leakage currents from the rails of main
railroads. Sbor.nauch.rab.AKKH no. 4. Zashch.podzem.soor.ot kor
no.2:36-44 '60. (MIRA 15:7)

(Electric railroads)

(Electrolytic corrosion)

OGANEZOVA, I.S.; STRIZHEVSKIY, I.V.; TARNIZHEVSKIY *И.В.*

Effect of strengthened protection against stray currents on leakage
currents from rails. Sbor.nauch.rab.AKKH no. 4. Zashch.podzem.soor.ot
kor no.2:45-55 '60. (MIRA 15:7)
(Electric railroads) (Electrolytic corrosion)

TARNIZHEVSKIY, M.V.

Calculation of leakage currents from rail networks when underground
piping is protected from stray currents. Sbor.nauch.rab.AKKH no. 4.
Zashch.podzem.soor.ot kor no.2:67-84 '60. (MIRA 15:7)
(Electric currents, Leakage) (Pipe—Electrolytic corrosion)

OGANEZOVA, I.S.; STRIZHEVSKIY, I.V.; TARN'IZHEVSKIY, M.V.

Determining the rate of leakage according to the potentials of an
average day of a rail network. Sbor.nauch.rab.AKKH no. 4. Zashch.podzem.-
soor.ot kor no.2:85-88 '60. (MIRA 15:7)
(Electric railroads) (Electric currents, Leakage)