

OSTROVSKIY, Yu.M.; GVOZDEVA, M.A.

Colorimetric determination of the concentration of medicinal preparations containing thiazole. Apt.delo 9 no.2:52-54 Mr-
Ap '60. (MIRA 13:6)

1. Iz biokhimicheskoy laboratorii Vitebskoy oblastnoy klinicheskoy bol'nitsy.
(COLORIMETRY) (THIAZOLE)

IVANOV-EMIN, B.N.; NISEL'SON, L.A.; GVOZDEVA, N.I.

Solubility of gallium hydroxide in sodium hydroxide and potassium
hydroxide solutions at 25°C. Zhur.neorg.khim. 7 no.5:1150-1153
My '62. (MIRA 15:7)
(Gallium hydroxide) (Alkalies) (Solubility)

YABLOKOV, V.S.; GVOZDEVA, N.P.; KOCHETOVA, V.I.; UMNOVA, N.I.;
KREN', N.L.; SHMIDT, M.I.; VANDERFLIT, Ye.K.; PAVLOV, S.I.,
red.; FINOGENOV, V.P., red.; RODIONOV, A.F., tekhn. red.

[Atlas of coals of the Moscow Basin]Atlas uglei Podmoskovnogo
basseina. Pod red. V.S.Iablokova. Tula, TSentr. biuro tekhn.
informatsii. Vol.1. 1962. 195 p. Vol.2.[Photographs of
thin sections and samples of coals]Fotografii shlifov i obras-
tsov uglei. 1961. 56 tables. (MIRA 16:4)
(Moscow Basin—Coal)

S/081/63/000/001/013/061
B101/B186

AUTHORS: Belousova, Ye. M., Gvozdeva, S. A.

TITLE: Cryoscopic study of complex formation in the system
 $\text{CdBr}_2 - \text{KI} - \text{H}_2\text{O}$

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1963, 74, abstract
1B495 (Nauchn. yezhegodnik. Odessk. un-t. Khim. fak., Odessa,
no. 2, 1961, 59 - 62)

TEXT: In a cryoscopic study of the system $\text{CdBr}_2 - \text{KI} - \text{H}_2\text{O}$ it was found
that the compound $\text{CdBr}_2 \cdot 2\text{KI}$ formed in the solution. The complex compound
of the composition $\text{K}_2[\text{CdBr}_2 \cdot \text{I}_2] \cdot 2\text{H}_2\text{O}$ was obtained by a preparative method,
and its solubility, density, and electrical conductivity were studied.
[Abstracter's note: Complete translation.]

Card 1/1

SALDADZE, K.M.; YASMINOV, A.A.; GVOZDEVA, L.N.

Systems of distribution of electrolyte in electrodiализers. Khim.
prom. no.10:756-760 O '63. (MIRA 17:6)

GVOZDEVA, S. V.; FOMIN, A. Ye.; and ASTAKHOVA, N. K.

"Root Nourishment of Plants with Organic Compounds Synthesized by Microorganisms,"
edited by A. A. Imshenetskiy, Corresponding Member, Academy of Medical Sciences
USSR, Moscow, Publishing House of the Academy of Sciences USSR, 1955, 239 pp

Sum 1467

88049

S/139/60/000/006/016/032
E073/E335

18.7000 only 2408
1413

AUTHORS: Savitskiy, K.V., Paskal', Yu.I. and Gvozdeva, T.I.

TITLE: On Thermocyclic Ageing of Duralumin

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Fizika, 1960, No. 6, pp. 109 - 112

TEXT: It is known that in a number of alloys creep under cyclic temperature fluctuations is different from that under isothermal conditions. I.A. Odina arrived at the conclusion that the observed reduction in creep due to cyclic temperature fluctuations is associated with the formation of alternating temperature stresses and with activation of the process of ageing. V.S. Yermakov (Ref. 2) has studied the influence of cyclic heat-treatment on the dispersion decomposition of the alloy ЭИ-437 (EI-437). He found that cyclic heat-treatment accelerates the thermocyclic ageing of the alloy. To some extent the effect of cyclic heat-treatment is analogous to the effect of an external alternating load and to the effect of ultrasonics (Ref. 3). The effect of thermocyclic ageing was also observed by the authors of this paper in lead (Ref.4).

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E073/E335

On Thermocyclic Ageing of Duralumin

Apparently, thermocyclic ageing is due to the effect of temperature stresses and strains caused by it and has a number of common characteristics with strain ageing. In this paper the influence of cyclic heat-treatment on the early stages of the process of ageing of duralumin $\Delta-1$ (D-1) is investigated. Wire specimens of 1 and 2 mm dia. were investigated; the microhardness was measured on 2 mm dia. specimens on which a facet about 1 mm wide was ground along the axis of the specimen. This facet was chemically polished in a mixture of nitric and phosphoric acids with water and glycerin. To prevent blackening of the ground surface as a result of quenching, the quenching was effected in acetone. The electric resistance was measured on the 1 mm specimens; most of the 1 mm dia. specimens were quenched in water. The quenching was after a 2-hour soaking at 505-510 °C. The cyclic heat-treatment was effected from -196 (liquid nitrogen) to +20 °C (water) and from -196 to +150 °C (paraffin). Heating and cooling were effected by

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On Thermocyclic Ageing of Duralumin

simple submersion. The soaking time in the heating and cooling media was selected in such a way that the entire volume of the specimen should have time to assume the temperature of the medium. The duration of the cycle was 30-35 sec. For comparison the change in the properties of identical specimens subjected to isothermal holding at +20 and +150 °C was also determined. Each experiment was repeated on 3-5 specimens; the property-treatment time curves were measured twice and good agreement was found to exist. The microhardness was measured with a PMT-3 (PMT-3) instrument with a 200 g load. The variance did not exceed 5% of the measured value. The electric resistance was measured by means of a bridge. The results of the treatment -196 to +20 °C and vice versa are given in Fig. 1; the properties are plotted as a function of the holding time. In Fig. 1 the changes are plotted of the microhardness (a, kg/mm²) and of the specific electric resistance (b, μΩcm) for thermocyclic (as a function of the number of -196 °C → +20 °C cycles) ageing and isothermal

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On Thermocyclic Ageing of Duralumin

(20 °C) ageing (as a function of holding time, min.).
Curves 1 and 5 represent thermocyclic ageing after quenching in acetone; Curve 2 - isothermal ageing after quenching in acetone; Curve 3 thermocyclic ageing after quenching in water; Curve 4 isothermal ageing after quenching in water. The data for the thermocyclic ageing were plotted taking into consideration the full duration of the cycle. Comparison of the thermocyclic and isothermal ageing indicates that the former accelerates the process of dispersion hardening, which is particularly pronounced during the first cycles. The hardness curve shows a pronounced maximum with a subsequent drop and passing through a minimum it shows a further slowing down of the hardness increase; the maximum microhardness is lower than that obtained in isothermal ageing of identical specimens. The electric resistance changes in a similar manner to the microhardness. Whilst in water-quenched specimens pronounced maxima and minima of the electric resistance was observed, on acetone-quenched ones these were not very pronounced. In Fig. 2, the Card 4/8

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On Thermocyclic Ageing of Duralumin

results are given of comparative measurements on cyclically heat-treated (1300 cycles) and naturally-aged specimens with the same hardness. The change was investigated in the hardness of both batches during holding at $+150^{\circ}\text{C}$. The change in the microhardness was qualitatively the same in both cases, but the specimens which were thermocyclically aged had a higher thermal stability at 150°C . In Fig. 2 Curve 1 relates to thermocyclically-aged specimens, Curve 2 to isothermally-aged specimens (hardness, kg/mm^2 versus duration, min). In the case of cyclic heat-treatment of $-196 \rightleftharpoons +150^{\circ}\text{C}$ activation of the ageing process was observed only during the first cycles of the heat-treatment. Fig. 3 shows the changes in the microhardness (a, kg/mm^2) and in the electric resistance (b, $\mu\Omega\text{cm}$) as a function of the treatment time, min, and, respectively, the number of cycles for thermocyclically ($-196 \rightleftharpoons 150^{\circ}\text{C}$) and isothermally ($+150^{\circ}\text{C}$) aged specimens. The Curves 1 and 3 relate to thermocyclic ageing,

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On Thermocyclic Ageing of Duralumin

Curves 2 and 4 relate to isothermal ageing.
There are 3 figures and 5 Soviet references.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri
Tomskom gosuniversitete imeni V.V. Kuybysheva
(Siberian Physicotechnical Institute of
Tomsk State University imeni V.V. Kuybyshev) X

SUBMITTED: July 4, 1960

Card 6/8

SAMSONOV, G.V.; BASHKOVICH, A.P.; GVOZDEVA, V.G.; MOISEYENKO, L.A.

Effect of the nature of the anions on the cation exchange of
antibiotics of the tetracycline series. Trudy Len.khim-farm.
inst. no.15:185-190. '62. (MIRA 15:11)
(ION EXCHANGE) (TETRACYCLINE)

SHATENSHTEYN, A.I.; GVOZDEVA, Ya.A.

Acidity of organic sulfides. Teoret. i eksper. khim. 1 no.3;
352-360 My-Je '65. (MIRA 18:9)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova, Moskva.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

GVOZDEVA, Ye. I.

CA

Chin Pharmacology

11H

Influence of glucose on biological activity of cardiac glucosides. A. M. Preobrazhenskii and Ye. I. Gvozdeva (Moscow Med. Inst.). *Farmakol. i Toksikol.* 8, No. 5, 6-10(1945). -The influence of glucose (I) on activity of g-strophanthin, diginorm (Soviet analog of digipurat), adonilene, and convallarin depends on concn. of I and the method of dosage. Infusion of isotonic I soln. along with the drug does not change the lethal dose of a cardiac glycoside in cats anesthetized with narcolan. Injection of a hypertonic I soln. increases the lethal dose (lowers hml. activity). Apparently an osmotic effect is involved.

Julian F. Smith

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

GVOZDEVA, Ye.I.

Combined effect of sulfidine and diuretin on diuresis in white mice. Tr. Vsesoiuz. obsh. fiziol. no. 1:135-136 1952. (GLML 24;1)

1. Delivered 23 June 1950, Moscow.

GVOZDEVA, Ye. I.

1. GVOZEDVA, Ye I.
2. USSR (600)
4. Ginseng
7. "Materials for the study of stimulants and tonics produced from the roots of ginseng and Schisandra." Reviewed by Ye I. Gvozdeva. Apt. delo no.6, 1952
9. Monthly list of Russian Accessions, Library of Congress, March 1953, Unclassified

GVOZDEVA, Ye.I.

Combined effect of soporifics and diuretics. Farm.i toks. 16 no.4:
29-32 J1-Ag '53. (MLRA 7:5)

1. Iz kafedry farmakologii (zaveduyushchiy - professor M.M.Nikolayeva)
Moskovskogo farmatsevticheskogo instituta.
(Narcotics) (Diuretics and diuresis)

С. С. Давыдов
MASHKOVSKIY, Mikhail Davydovich; prof.; GVOZDEVA, Ye.I., red.; LYUDKOVSKAYA,
N.I., tekhn.red.

[Medicinals; a manual for physicians] Lekarstvennye sredstva;
posobie dlia vrachei. Izd.2-oe, perer.i dop. Moskva, Gos.izd-vo
med.lit-ry, 1957. 811 p. (MIRA 10:12)

(DRUGS)

GVOZDEVA, Ye.I.; ZAYDLER, Ya.I.

Reactivity of the organism to cardiac glycosides in combination
with anticoagulants. Farm.i toks. 23 no.2:125-127 Mr.-Ap '60.

(MIRA 14:3)

1. Kafedra farmakologii (zav. - prof. M.M.Nikolayeva) Moskovskogo
farmatsevticheskogo instituta.

(CARDIAC GLYCOSIDES)

(COUMARIN)

PERSHIN, Grigoriy Nikolayevich; GVOZDEVA, Yelena Ivanovna; MENTOVA, V.N.,
red.; KUZ'MINA, N.S., tekhn. red.

[Textbook in pharmacology] Uchebnik farmakologii. Moskva, Gos.
izd-vo med. lit-ry Medgiz, 1961. 402 p. (MIRA 14:7)
(PHARMACOLOGY)

ZAYDLER, Ya.I.; GVOZDEVA, Ye.I.

Effect of heparin and dicoumarin on the toxicity and concentration
of strophanthin. Farm.i toks. 24 no.1:80-83 Ja-F '61.

(MIRA 14:5)

1. Kafedra farmakologii farmatsevticheskogo fakul'teta (zav. -
prof. M.M.Nikolayeva) I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova.

(STROPHANTHIN)

(HESPARIN)

(COUMARIN)

OKULOV, Igor' Borisovich, inzh.; SHUBIN, Boris Minich, inzh.; Prinimala
uchastiye GVCZDEVA, Z.P., inzh.; MARGOLIN, P.A., inzh.,
retsenzent; BELOBORODOVA, O.S., inzh., retsenzent; DUGINA, N.A.,
tekhn. red.

[Electroplating] Gal'vanicheskie pokrytiia. Moskva, Mashgiz,
1962. 176 p. (MIRA 16:2)

(Electroplating)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82447

Author : Gvozdeva, Z.V.

Last

Title : Utilization of Unisexual Female Castor Plants in the

Matter of Increasing the Yield of This Crop.

Orig Pub : Tr. po prikl. botan., genet. i selektsii, 1957, No 3,
140-142

Abstract : As the result of a study of a castor plant collection, a successful separation was made of the individual species and varieties possessing a strong tendency to the formation of unisexual female plants. Their offspring are more viable and productive in comparison with ordinary plants. This was confirmed at competitive variety trials conducted in 1954 when the female offspring of the Early Hybrid variety was studied in comparison with the ordinary offspring of normal plants. It is assumed that

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SOV-26-58-3-40/51

AUTHOR: Gvozdeva, Z.V., Candidate of Agricultural Sciences

TITLE: A Rare Case of the Appearance of Female Plants of the Sunflower (Redkly sluchay poyavleniya zhonskikh rasteniy podsolnechnika)

PERIODICAL: Priroda, 1958, Nr 3, pp 115-116 (USSR)

ABSTRACT: In the sunflower (*Helianthus annuus*) occurrence of female plants with male sterility is extremely rare in these hermaphroditic plants. There is only one instance quoted in literature previously. Professor A.I. Kuptsov quoted one instance in 1929 where a specimen of India was found. Since then, 21 male sterile, so-called female sunflower plants were noticed in 1951 and 1952 in the Kubanskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva (Kuban Experimental Station of the All-Union Institute of Plant Cultivation) among the descendants of the graftings of genetically remote forms of this culture. The occurrence of female plants is tentatively explained as the result of a sudden change of metabolism of the graft of the olive sunflower under the influence of the genetically and biologically remote wildings.

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SCV-26-58-3-40/51

A Rare Case of the Appearance of Female Plants of the Sunflower

ASSOCIATION: Eksperimental'naya baza VIR-g.Pavlovsk (Experimental Base of VIR-Pavlovsk)

1. Plants--Physiology
2. Plants--Genetic factors

Card 2/2

GVOZDEVA, Z.V., kand. sel'skokhoz. nauk

Reliable method for the continuous storage of the seeds of
collection specimens. Agrobiologia no.4:572-576 JI-Ag '65.
(MIRA 18:11)

1. Vsesoyuznyy institut rasteniyevodstva, laboratoriya
semenovedeniya, Leningrad.

S/112/59/000/014/055/085
A052/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 14, p. 196,
29973

AUTHOR: Gvozdevich, A.M.

TITLE: Mechanization and Automation of Production

PERIODICAL: V sb.: Za novuyu tekhn. i progressivn. tekhnol. Minsk, Gos. izd-
vo BSSR, 1958, pp. 142-154

TEXT: The problems of mechanization and automation of foundries are
discussed. ✓

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

ZAYGEROV, Iosif Borisovich; prinalni uchastiye: GVOZDEVICH, A.M.
SHMORGUN, Ya.Sh., inzh.; TIMOFEYEV, T.S., inzh.; ARAV, R.I.,
inzh., KULESHOVA, A.I., inzh.; GORODETSKIY, G.Ye., inzh.;
SOSNENKO, M.N., inzh. retsenzent; SIROTIN, A.I., red.;
BL'KIND, V.D., tekhn. red.

[Reclamation of used sand mixtures; design of pneumatic reclaimers]
Regeneratsiia otrabotannykh smesei v liteinom proizvodstve; kon-
struktsiia i raschet pnevmaticheskikh regenerátorov. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 181 p.
(MIRA 14:5)

1. Nachal'nik otdela mekhanizatsii Moskovskogo transformativnogo
zavoda (for Gvozdevich, Shmorgun, Timofeyev, Arav, Kuleshova,
Gorodetskiy)

(Sand, Foundry)

(Pneumatic machinery)

GVOZDEVICH, Aleksandr Makarovich; ZAYGEROV, Iosif Borisovich;
KOROLEV, Vitaliy Arkad'yevich; SHMORGUN, Yakov Shayevich;
KASHTANOV, F., red.; DOMOVSKAYA, G., tekhn. red.

[Mechanization of conveying operations in machinery plants;
experience of the Minsk Tractor Factory] Mekhanizatsiia tran-
sportnykh operatsii v mashinostroenii; iz opyta raboty Min-
skogo traktornogo zavoda. Minsk, Gos.izd-vo BSSR. Red. pro-
izvodstvennoi lit-ry, 1961. 70 p. (MIRA 15:2)
(Minsk--Conveying machinery)

GVOZDEYEV, M.S.

Correcting defects in iron castings by welding. Lit. proizv.
no.1:41 Ja '62. (MIRA 16:8)

(Cast iron—Defects)

BULGARIAN/Chemical Technology. Chemical Products and Their Applications. Dyeing and Chemical Treatment of Textile Materials.

E

Abs Jour: Ref Zhur-Khin., No 8, 1959, 29898.

Author : Lukanov, E. and Gvozdieva, I.

Inst :

Title : Dyeing and Printing with Pigmented Dyes.

Orig Pub: Leka Promishlenost Tekstil, 7, No 4, 16-18 (1958)
(in Bulgarian)

Abstract: The authors discuss the advantages and application methods of pigmented dyes of the orem, printofix, acramine, and helizarin type, using literature data. The need for the introduction of such dyes in Bulgarian textile practice is noted. The relative

Card : 1/2

BULGARIAN/Chemical Technology. Chemical Products and Their Applications. Dyeing and Chemical Treatment of Textile Materials.

Abs Jour: Ref Zhur-Khin., No 8, 1959, 29898.

volume of pigmented dye utilization in textile printing is 300% [sic] in the GDR, 13% in Hungary, 7% in Poland, and 5% in Czechoslovakia. -- K. Markuze.

Card : 2/2

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GVOZDIK, A.A.

Use of a phosphate reagent for cleaning raw juice preheaters. Sakh.
prom. 33 no.12:25-26 D '59. (MIRA 13:4)

1. Gorodishchenskiy sakharnyy zavod.
(Sodium phosphates)
(Sugar manufacture--Equipment and supplies)

ANBINDER, Ya.Ye. [Anbinder, IA.IE.]; SHPAKOVSKIY, N.Ye. [Shpakovs'kyi, N.E.];
DARBINYAN, S.A.; KOMAROV, V.V.; KOMAROVA, T.V.; KOZLOV, Yu.A.; KONKOTIN,
L.P.; ZEREKIDZE, V.M.; SHULYATITSKIY, S.M. [Shyliatyts'kyi, S.M.];
KHODURSKIY, Ye.A. [Khodurs'kyi, IE.A.]; OBUSHINSKIY, Ye.I. [Obushyns'kyi,
IE.I.]; GVOZDIK, A.A. [Hvozdyk, A.A.]; NIKITINA, M.A.; LUPASHKO, N.F.;
BESKROVNIY, M.N.; TSIMBLER, M.Ye. [TSymbler, M.IE.]; ILYN, A.N.; TOTADZE,
P.M.; ZHIGURS, Kh.Yu.; ZAKREVSKIY, Ye.S. [Zakrevs'kyi, IE.S.];
FEDOROVICH, A.G. [Fedorovych, A.H.]; CHALENKO, D.K.; KHC MUTOV, D.A.;
SKURIKHIN, I.M.; NILOV, V.I.; YEFIMOV, B.N. [IEfimov, B.N.]; KAZANOVSKIY,
V.S. [Kazanovs'kyi, V.S.]; ZOTIKOV, L.S.; KOCHURENKO, M.A.

Soviet certificates of invention. Khar. prom. no.2:57-59 Ap-Je '65.
(MIRA 18:5)

GVOZDIK, V.A., student; TROTSSENKO, M.A., student; POTAPOVA, V.P., student

Quantitative determination of atoxyl by the bromometric method.
Apt.delo 3 no.3:33-35 My-Je '54. (MLRA 7:6)

1. Iz ⁿⁱnauchnogo ^{200.}studentskogo kruzhka kafedry farmatsevticheskoy khimii (zav. kafedroy-prof. A.I.Portnov) Odesskogo farmatsevticheskogo instituta.

(ARSENICALS, determination,

*atoxyl, bromide treatment technic)

(BROMIDES,

*determ. of atoxyl)

Country : USSR
Category : Forestry. Forest Cultures. K
Abs Jour : RZhBiol., No 6, 1959, No 24735
Author : Gvozdkov, A. V.
Inst : Tashkent Agricultural Institute.
Title : Concerning Seed-Planting Norms in the Sands
of Central Asia.
Orig Pub : Tr. Tashkents. s.-kh. in-ta, 1957, vyp. 9,
93-98
Abstract : Proceeding from the accepted nest and line
sowing of psammophytes of the average seed-
planting norm (75,000 pieces per hectare) and
discounting the average weight of the seeds,
seed-planting norms were arrived at for under-
brush species; it was indicated that for the
majority of them, the recommended by the Main
Department of Silviculture seed-planting norm,
being 8 kg/ha, appears to be highly exaggera-
Card : 1/3

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Country : USSR
Category : Forestry. Forest Cultures. K
APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000617720014-3"
Abs Jour : RZhBiol., No 6, 1959, No 24733
Author :
Inst :
Title :
Orig Pub :
Abstract : ted. If the very low propability of the seeds
finding themselves in favorable conditions
during the scattered sowing in sands be dis-
counted (including aviation sowing), even
under these conditions the recommended norm
for the majority of the species may be lowe-
red considerably. Just in Uzbekistan, this
would save 600-1000 t of haloxylon seeds in
Card : 2/3

CHAUSOV, Nikita Semenovich, kand.tekhn.nauk; Primalni uchastiye:

GVOZDIKOV, B.F., inzh.-elektrik; KULAKOV, B.F., inzh.-elektrik;
SBORSHCHIKOV, S.G., inzh.-elektrik; PUKHLYANKO, A.A., inzh.-elektrik;
KORNEYEVA, V.P., tekhnik-elektrik; AYNBERG, V.D., programmist; MEL'NIKOVA,
M.G., programmist; KOZLOVA, R.Ya., programmist; ARKHIPOVA, A.A., programmist
VILKOV, G.N., red.izd-va; MOCHALINA, Z.S., tekhn.red.

[Using electronic computers in calculating engineering constructions
(programming the calculation of shallow shells and beams for the electronic
digital computer "Ural-1")] Primenenie elektronnykh vychislitel'nykh
mashin pri raschete inzhenernykh sooruzhenii (programirovanie rascheta
pologikh obolochek i sterzhnei dlia ETsVM "Ural-1"). Moskva, Gos.izd-vo
lit-ry po stroit., arkh.it.i stroit. materialam, 1962. 135 p. (Akademiia
stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruksii.
Trudy, no.9). (MIRA 15:8)

(Electronic digital computers) (Elastic plates and shells)
(Beams and girders)

USSR/Human and Animal Physiology - The Effect of Physical Factors. T
Ionizing Radiation.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13408

Author : Gvozdkova, Z. N.
Inst : -
Title : Electrophysiological Data on Changes in Spinal Reflexes
as a Result of Roentgen Exposure

Orig Pub : Tr. Vses. konferentsii po med. radiol. Eksperim. med.
radiol. M., Medgiz, 1957, 34-39

Abstract : In rabbits, which received total radiation of 500 r,
the flexor reflexes of the rear extremity were slightly
changed in response to stimulation of the shin
with single shocks of induction current, but as soon
as 30 minutes after radiation with a dosage of 800 -
1000 r there was a sharp lowering of the amplitude
and frequency of the action current (AC) and a pro-
longation of the reflex period. The phenomena were

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000617720014-3
USSR/Human and Animal Physiology - The Effect of Physical Factors. T
Ionizing Radiation.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13408

demonstrated best 1 - 5 days after irradiation; and
sometimes a complete loss of reflexes was also obser-
ved. Less clearly expressed changes in the spinal
motor reflexes were also observed with stimulation
of the sciatic nerve with exclusion of the receptor
member of the reflex arch. Local radiation with
500 r of corresponding spinal centers (SC: in the
area of the lumbar vertebra) led to weakly expressed
dissimilar changes in the reflex activity, but after
1000 r there was a sharp decrease in amplitude and
frequency of CA and a lengthening of the reflex
period to approximately the same time after radia-
tion as with stimulation of the skin. With local
irradiation of the corresponding receptor zones
(lower third of the shin) with light roentgen rays
(20 kilowatt) even after 500 r there was a definite

Card 2/3

GVOZDIKOVA, Z.M.

Analysis of influences of the hypothalamic region on the dynamics
of spinal reflexes following local irradiation. Report No.1.
Irradiation of the rabbit head. . Radiobiologia 1 no.5:761-768 '61.
(MIRA 14:11)

(HYPOTHALAMUS) (X RAYS--PHYSIOLOGICAL EFFECT)
(SPINAL CORD)

GVOZDIKOVA, Z.M. (Moskva)

Effect of the hypothalamic region on the dynamics of spinal reflexes
in rabbits after total-body X-ray irradiation. Pat. fiziol. i eksp.
terap. 5 no.6:15-21 N-D '61. (MIRA 15:4)

1. Nauchnyy rukovoditel' - prof. M.N.Livanov.
(HYPOTHALAMUS) (RADIATION SICKNESS)
(SPINAL CORD--INNERVATION) (REFLEXES)

GVOZDIKOVA, Z.M.

Analysis of the effect of the hypothalamic region on the dynamics
of spinal reflexes after local irradiation. Report No.2: After
irradiation of the spinal cord and leg in rabbits. Radiobiologia
2 no.1:75-81 Ja '62 (MIRA 18:1)

S/205/62/002/004/009/014
I015/I215

AUTHOR: Gvozdkova, Z. M.

TITLE: Changes in the myotactic reflexes of X-irradiated rabbits

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 573-579

TEXT: This is the continuation of a previous study. Experiments were carried out on 18 rabbits decerebrated by the Sharrington-Magnus method. The amplitudes and frequency of the action potentials of m.femoralis were recorded in 9 rabbits before irradiation and in 9 rabbits after X-irradiation with 800-1000r at a dose rate of 26.8-29.3r/min. The myotactic reflex of m.femoralis was weakened in decerebrated and irradiated animals. This could be observed only at the early stage of the radiation sickness, moreover all the decerebrated animals died within 5-12 days of irradiation. The decrease in the electrical response of the muscle was revealed despite the small number of experiments

Card 1/2

S/205/62/002/004/009/014
I015/I215

Changes in the myotactic reflexes...

by a decrease in the amplitude and by shorter reflex-reaction time.
There are 3 figures and 1 table.

SUBMITTED: September 2, 1961

✓

Card 2/2

L 8782-65 EWG(j)/EWT(d)/EWG(r)/EMI(l)/FS(v)-3/ENG(v)/EEC-4/ENG(a)/ENG(c) Pe-5
AFNL/AMD/AFETR/ASD(a)-5/AFMDC/BSO/AEDC(b)/AFTC(b)/SSD/ESD(a)/ESD(t)/RAEM(t)/Pa-4/
ESD(gs) DD

ACCESSION NR: AP4043807

S/0219/64/058/008/0063/0068 8

AUTHOR: Gvozdkova, Z. M.; Anan'yev, V. M.; Zanina, I. N.; Zak, V. I.

TITLE: The sensitivity of the central nervous systems of rabbits to
a constant electromagnetic field of ultrahigh frequencies. P

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny*, v. 58,
no. 8, 1964, 63-68

TOPIC TAGS: ultrahigh frequency, electromagnetic field, central
nervous system, rabbit

ABSTRACT: To investigate the sensitivity of the central nervous
system to UHF fields of various wavelengths, the authors used 172
chinchilla rabbits weighing no less than 2 kg each. Three series of
investigations took place in which rabbits were exposed to unilateral
5-min UHF fields of 1) 52-cm waves from an experimental triode gener-
ator in the decimeter range, 2) 100-cm waves from the same source,
and 3) 12.5-cm waves from a therapeutic "Lugh-58" magnetron generator.
Flux densities ranged from 0.02 to 50 mw/cm². Needle electrodes fixed

Card 1/2

L 8782-65

ACCESSION NR: AP4043807

contralaterally in the cranium were connected to a 4-EEG-1 VNIIMIO electroencephalograph. In some tests, the EEG was registered from both cerebral hemispheres. Bradyrhythmic variations in the EEG of rabbits exposed to 52- and 100-cm UHF fields depended upon field flux density. Analyses of these two series showed that most EEG variations (58%) occurred within the first minute of exposure to UHF, with variation incidences of 31% for the second minute, nearly 10% for the third minute, and only 1% for the fourth and fifth minutes of exposure. The tests indicate that EEG variation increases in direct proportion to field flux density and reflects the sensitivity of the central nervous system to UHF. The 100-cm field had the greatest biological effect while 52- and 12.5-cm fields had proportionately less. Orig. art. has: 1 table and 3 figures.

ASSOCIATION: none

SUBMITTED: 24May63

ATD PRESS: 3100

ENCL: 00

SUB CODE: LS, EC

NO REF SOV: 016

OTHER: 002

Card 2/2

GVOZDILOVA, D.A.

Cutaneous allergic test with an antigen from *Rickettsia pro-*
zekii in typhus fever patients. Trudy Len.inst.epid.i mikrobiol.
23:15-24 '61. (MIRA 16:3)
(TYPHUS FEVER) (ANTIGENS AND ANTIBODIES) (RICKETTSIA)

GVOZDILOVA, D.A.

Cutaneous allergic test in the study of the immunological structure
of rural population with respect to typhus fever. Trudy Len. inst.
epid.i mikrobiol. 23:25-31 '61. (MIRA 16:3)
(TYPHUS FEVER) (IMMUNITY)

SHMAKOVA, V.I.; YUZHAKOVA, N.N.; REZNICHENKO, V.G.; GLEBOV, I.T.; VOLKOV, A.S.;
URZLIYA, N.Ye.; BEKHTEREV, P.A.; RYS', G.I.; VORONINA, M.N.; GVOZDINTS-
KIY, I.M.; VARAKSINA, M.P.; MASTERSKIKH, M.A.; GONCHAROVA, V.A.;
BICHEVINA, A.N.; SOROKIN, M.A., red.; GRIN', Ye., tekhn.red.

[Economy of Altai Territory during the past 40 years; a statistical
manual] Narodnoe khoziaistvo Altaiskogo kraia za 40 let. Sovetskoi
vlasti; statisticheskii sbornik. Barnaul, Altaiskoe knizhnoe izd-vo,
1957. 110 p. (MIRA 11:3)

1. Altayskiy kray. Statisticheskoye upravleniye. 2. Statisticheskoye upravleniya Altayskogo kraia (for all except Sorokin, Grin')
1. 3. Nachal'nik Statisticheskogo upravleniya Altayskogo kraia (for Sorokin)
(Altai territory--Statistics)

GVOZDJAK, J.

NIEDERLAND, T.R.; GVOZDJAK, J.; BRIKOVA, E.; MASLER, P.; MEZES, V.;
HOLANOVA, J. (~~techn.~~ spolupraca)

Metabolism of salicylates in the organism. II. Effect of salicylate
therapy on prothrombin time. Cas. lek. cesk. 93 no.22-23:616-620
4 June 54.

1. Z Ustavu pre vseobecnu a kliniku biochemiu SU v Bratislave.
Prednosta prof. MUDr T.R.Niederland.

(PROTHROMBIN TIME, effect of drugs on
salicylates)

(SALICYLATES, effects,
on prothrombin time)

NI EDERLAND, T. R.; BRIKOVA, E.; GVOZDJAK, J.; Techn. spolupraca:
HOLANOVA, J.

Metabolic effects of salicylates in the organism. 3. Biochemical changes in the suprarenal glands in rabbits in chronic administration of salicylates. Bratisl. lek. listy 35 2 no.3:140-154 15 Aug 55.

1. Z Ustavu pre vseobecnu a klinicku biochemiu LFUK v Bratislave, prednosta prof. dr. T. R. Niederland. Biochemicke zmeny v nadoblickach kralikov pri chronickom podanovi salicylatov.

(SALICYLATES, effects

on biochem. changes of adrenal glands, after chronic admin. in rabbits.)

(ADRENAL GLANDS, effects of drugs on

salicylates, chronic admin., causing biochem. changes in rabbit)

Gvozďjak, J.

The determination of glycogen in muscle tissues. T. R. Niederland, J. Gvozďjak, and M. Triznová (Komenský Univ., Bratislava, Czech.). *Chem. Zvesti* 10, 242-5 (1956) (German summary).—A crit. study of various methods of glycogen detn. was made. Morris' (*C.A.* 42, 4033a) and Boettiger's (*C.A.* 40, 5086⁴) methods are recommended as suitable and Good, *et al.*'s (*C.A.* 27, 3406) is not recommended because it was found to be too slow. Jan Micka

chem 3

GVOZDJEK, J.

/Metabolic influence of salicylates in the organism. V.

Changes of the prothrombin time following toxic doses of salicylates in rabbits, influence of vitamin K and of nutrition upon these changes. T. R. Niederland, E. Brixová, J. Gvozdjak, and M. Triznová (Komenský Univ., Bratislava, Czech): *Bratislav. Lekárske Listy* 56, Pt. 1, 877-87 (1956); cf. C.A. 50, 10929g.—The highly toxic effect of subcutaneously injected Na salicylate (0.51-0.68 g/kg.) characterized by a progressive prolongation of the prothrombin time (1) was considerably dependent on the compn. of food. Administration of vitamin K did not block it. (cf. C.A. 48, 11645g.)
Y. J. Urbánek

if
Max

NIEDERLAND, T.R.; GVOZDJAK, J.; BRIXOVA, E.

Dynamic changes of l-ascorbic acid and cholesterol in the adrenals
after massive doses of salicylates. Cas. lek. cesk. 99 no.16:497-
500 15 Ap '60.

(ADRENAL CORTEX pharmacol.)

(SALICYLATES pharmacol.)

(VITAMIN C metab.)

(CHOLESTEROL metab.)

NIEDERLAND, T. R.; ~~GVOZDJAK, J.~~; BRIXOVA, E.; BACHLEDOVA, E.; technicka
spolupraca: BELAJOVA, E.; MATOLKOVA, M.

Changes in the concentration of l ascorbic acid and cholesterol in
the adrenal gland during the course of chronic and chronic intermittent
administration of salicylates. Bratisl. Lek. Listy 2 no.11:647-651
'61.

1. Z III internej kliniky Lek. fak. Univ. Komenskeho v Bratislave,
predrosta prof. MUDr. T. R. Niederland.

(ADRENAL CORTEX pharmacol) (VITAMIN C metab)
(CHOLESTEROL metab) (SALICYLATES pharmacol)

GVCZDJAK, J.; NIEDERLAND, T. R., with the technical assistance of KAPLANOVA, M.

The effect of digitoxin on the lipid metabolism of myocardium and striated muscle. *Cor vasa* 4 no.2:154-160 '62.

1. The Pharmacobiochemical Laboratory of the III Internal Clinic, Medical Faculty, Comenius University, Bratislava, Czechoslovakia.

(MYOCARDIUM metab) (MUSCLES metab)
(LIPIDS metab) (DIGITALIS pharmacol)

GVOZDJAK, J.; NIEDERLAND, T. R., with the technical assistance of KAPLANOVA, M.

The effect of digitoxin on protein content in the myocardium, striated muscle and liver of the rat. Cor vasa 4 no.2:161-164 '62.

1. The Pharmacobiochemical Laboratory of the III Internal Clinic, Medical Faculty, Comenius University, Bratislava, Czechoslovakia.

(DIGITALIS pharmacol) (PROTEINS metab)
(MYOCARDIUM metab) (MUSCLES metab)
(LIVER metab)

GVOZDJÁK, J.

Czechoslovakia

Third Internal Medicine Clinic LFUK -- Bratislava
(III. Interni klinika LFUK -- Bratislava);
Head: T. NIEDERLAND, Prof. MD.

Bratislava

~~Prague~~, Lekársky Obzor, No 12, 1962, pp 695-699

"Reserve Power and Coronary Reserve of the Heart."

GVOZDJAK, J.; With the technical assistance of: KAPLANOVA, M.

The dynamics of myocardial glycogen content during chronic administration of digitoxin. Cor vasa 5 no.3:220-224 '63.

1. Research Laboratory of Pharmacobiochemistry, IIIrd Internal Clinic, Komensky University, Bratislava, Czechoslovakia.
(MYOCARDIUM) (CARBOHYDRATE METABOLISM)
(GLYCOGEN) (DIGITOXIN)

GVOZDJAK, J.; with the technical assistance of: KAPLANOVA, M.

The behaviour of myocardial lipids during chronic administration of digitoxin. Cor vasa 5 no.3:225-229 '63.

1. Research Laboratory of Pharmacobiochemistry, IIIrd Internal Clinic Medical Faculty, Komensky University, Bratislava, Czechoslovakia.

(MYOCARDIUM) (LIPID METABOLISM)
(FATTY ACIDS) (CHOLESTEROL)
(PHOSPHOLIPIDS) (DIGITOXIN)

CZECHOSLOVAKIA

GVOZDZAK, Jan. and NIEDERLAND, T. Rudolf; Pharmacobiochemistry Research Laboratory of the Third Clinic of Internal Medicine at the Medical Faculty of Comenius University (Vedecke laboratorium farmakobiochemicke pri III internej klinike Lekarskej Fakulty Univerzity Komenskeho,) Bratislava.

"Effect of Prolonged Administration of Digitoxin on Rat Adrenals."

Bratislava, Biologia, Vol 18, No 8, 1963; pp 621-625.

Abstract [German summary modified]: Study of changes of adrenal weights, ascorbic acid and cholesterol in rats after 1 mg./Kg. of digitoxin daily i.p. for up to 28 days. Adrenal weights were unchanged, ascorbic acid decreased in the second half of experiment only, cholesterol initially only. Conclusion: changes are unspecific. Diagram, Table; 4 Western ref's.

1/1

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000617720014-3"

GVOZDZAK, J.; NIEDERLAND, T.R.; BACHLEDOVA, E.; TOMIK, F.; FEDORCAKOVA, A.;
KRAMAR, T. Technical assistance: KAPLANOVA, M.

Experimental cardiomyofibrosis produced by diet (ECFD). I. Changes in ~~carbohydrate~~ ~~metabolism~~ of the myocardium in dynamic development. Cor. vasa 6 no.2:153-158 '64.

Experimental cardiomyofibrosis produced by diet (ECFD). II. Changes in lipid metabolism in the myocardium. Ibid.:159-163 '64.

1. Research Laboratory of Pharmacobiochemistry, IIIrd Internal Clinic, Faculty of Medicine, Komensky University, Bratislava, Czechoslovakia.

*

GVOZDIJAK, J.; NIEDERLAND, T.R.; Techn. spoluprac. M. KALINOVKA

Effect of chronic intermittent administration of digitoxin
on carbohydrate metabolism. Bratisl. Lek. Listy 44 no.8:
449-453 1964.

1. Vedecke laboratorium farmakobiochimie Lek. Fak. Univerzity
Komenskeho v Bratislave (veduci prof. MUDr. Niederland, T.R.,
Dr.Sc.).

GVYZDIAK, J.; TEDONCAKOVA, A.; BACHLEDOVA, E.; NIEDERLAND, T.R.;
Technicka spolupraca: KAPLANOVA, M.; RADICOVA, L.

On biochemical changes of the rat myocardium in late ontogenesis
during experimental cardiomyofibrosis. Bratisl. lek. listy 45
no.6:334-338 30 S '65.

1. III. interna klinika Lek. fak. Univerzity Komenskeho v Brati-
slave (veduci prof. MUDr. T.R. Niederland, DrSc.).

NEPOMUKA, T.R.; GVOZDJAK, J.; BACHLEDOVA, E.

Changes in esterified fatty acids in the liver during experimental infarctoid cardiopathy. Cas. lek. cesk. 104 no.34:924-925 27 Ag '65.

1. III. interna klinika Lekarskej fakulty Univerzity Komenskeho v Bratislave a Vedecke laboratorium farmakobiochemie v Bratislave (prednosta prof. dr. T.R. Niederland, DrSc.).

GVOZDJAK, L.

Separating condenser with small ground resistance. p. 71.
STROJNOELEKTROTECHNICKY CASOPIS, Bratislava, Vol. 4, no. 1, 1953.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956. Uncl.

GVOZDJAK, L.

Coupling condenser with a low leakage resistance, p. 77, SDELOVACI
TECHNIKA (Ministerstvo strojirenstvi) Praha, Vol. 2, No. 3, Mar. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

GVCZDIAK, L.

"Correction Scale for Microphotographs. (To be cont'd) I. 425.
(TECHNICKA INACA, Vol. 4, No. 7, July 1964, Bratislava, Czechoslovakia)

SC: Monthly List of East European Accessions, (EMAL), IC, Vol. 4,
No. 1, Jan. 1963, Uncl.

Czechoslovakia/Radiophysics - Radio-wave Reception, I-7

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35345

Author: Gvozdkak, Ladislav

Institution: None

Title: Stability of Multistage Amplifiers with Negative Feedback

Original

Periodical: Strojnoelektrotechn. casop., 1956, 7, No 1, 17-25; Slovak; Russian and German resumés

Abstract: Analysis of the stability conditions of multistage low-frequency amplifiers with heavy negative feedback. It is shown that the stability can be assured by suitable choice of the time constants of the coupling circuits. A diagram is obtained for determining the necessary values of the time constants. The theoretical results are confirmed experimentally. The measurement circuit and results are given.

Card 1/1

ACC NR. AB7003755

SOURCE CODE: 52/98/2/66/009/008/0683/9581

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000617720014-3"

AUTHOR: Dvorak, V. (Engineer); Nevriwa, P. (Engineer); Gvozdkak, L.

ORG: ^[DVOZAK] Computer Research Institute, (Vyzkumny ustav matematickeho stroju Praha); ^[NEVRIVA] Mining Institute of Higher Learning (Vysoka skola banska, Ostrava)

TITLE: Analysis of a forming amplifier with a transistor and a transformer

SOURCE: Elektrotechnicky casopis, no. 9, 1966, 683-691

TOPIC TAGS: transistorized amplifier, pulse shaper, analog computer application, PULSE TRANSFORMER

ABSTRACT: An analysis is made of a one-transistor forming amplifier in the collector of which a pulse transformer is connected, and whose emitter contains an RC feedback network. The operation of the system is described and a quantitative analysis of the circuit is presented. Differential equations describing the circuit during formation of the top of the pulse are developed, and results of their solution on the MEDA-II-type analog computer are given. The effect is described of the primary inductance of the transformer and of the RC feedback network on the current in the base. The current falls to considerable negative values, with the result that the width of the output pulse is stabilized. The results measured on a real network are compared with those obtained on the computer. Orig. art. has: 9 figures, 17 formulas.

SUB CODE: 09/ SUBM DATE: 14Jan66/ ORIG REF: 003/ SOV REF: 001

Card 1/1

UDC: none

FURDIK, M.; GVOZDJAKOVA, A.; KANALA, A.

Contribution to the synthesis of homopiperonal. Acta r nat
Univ Com 7 no.10:557-566 '63.

1. Katedra organickej chemie a biochemie, Univerzita Komenskeho,
Bratislava, Smeralova 2.

VOLYNSKIY, B.G.; FREYDMAN, S.L.; GLAZYRINA, G.A.; KUZ'MINA, K.A.;
KUZNETSOVA, S.G.; GVOZDKOV, A.V.

Use of vitamins in some toxications under experimental conditions.
Trudy Sar. gos. med. inst. 26:119-121 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra farmakologii
(zav. - dotsent B.G. Volynskiy).
(POISONS--PHYSIOLOGICAL EFFECT)
(VITAMIN THERAPY)

VOLYNSKIY, V.G.; FREYDMAN, S.L.; KUZNETSOVA, S.G.; KUZ'MINA, K.A.;
GVOZDKOV, A.V.

Influence of vitamin B₁₂ on the course of experimental phosphorus
intoxication. Trudy Sar. gos. med. inst. 26:122-125 '59.
(MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra farmakologii
(zav.- dotsent B.G. Volynskiy).
(CYANOCOBALAMINE) (PHOSPHORUS—TOXICOLOGY)

MITINA, V.S.; GVOZDKOV, A.V.

Influence of deoxyribonucleic acid on the stability and
variability of intestinal bacilli. Trudy Sar. Gos. med.
inst. 26:265-270 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra biologicheskoy
khimii (zav. - prof. N.N. Ivanovskiy).
(NUCLEIC ACIDS) (ESCHERICHIA COLI)

GVOZDKOV, A.V.; NIKIFOROVA, N.Ye. (Saratov)

Prolapse of the gastric mucosa into the duodenal bulb. Klin.
med. 39 no.2:39-44, F '61. (MIRA 14:3)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof.
P.I. Shamarin) Saratovskogo meditsinskogo instituta i rentgeno-
logicheskogo otdeleniya (zav. M.Ye. Nikiforova) 2-y Gorodskoy
klinicheskoy bol'nitsy Saratova.

(STOMACH—DISEASES)

GVOZDKOV, A.V. (Saratov)

One relatively rare form of lymphogranulomatosis (mycosis fungoides). Klin.med. 40 no.6:79-82 Je '62. (MIRA 15:9)

1. Iz kliniki propedvtiki vnutrennikh bolezney (zav. - prof. P.I. Shamarin) i kliniki kozhnykh bolezney (zav. - prof. A.F. Ukhin) Saratovskogo meditsinskogo instituta (dir. - dotsent N.R. Ivanov).

(DERMATOMYCOSIS)

GVOZDKOV, N. N.

USSR/Physics - Heat Exchange Oct 53

"Turbulent Friction and Heat Exchange of a Wedge in a Gaseous Stream," N.N. Gvozdkov and M.F. Shirokov, Chair of Teoretic Phys

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 7, PP 105-115

Attempts to compute the friction and heat exchange of a wedge in a stream for given temp distribution on its faces, taking into account the large velocities of circulation around the wedge. Refers to related works of L. Ye. Kalikhman (Prikl Mat i Mekh, Vol 9, No 3, 1945; Vol 10, No 4, 1946).

273T96

GVOZDKOV, N. N.

"On Approximate Equations of Motion in a Thin Layer of a Viscous Compressible Fluid With Heat Exchange," by N. N. Gvozdkov, Tr. Voronezhsk. un-ta., 27, 1954, pp 14-19 (from Referativnyy Zhurnal--Mekhanika, No 11, Nov 56, Abstract No 7529, by G. M. Bam-Zelikovich)

"The sought-for functions (components of velocity, pressure, etc.) are laid out in a series along degrees $1/R$ in the case of small Reynold's numbers R , and along degrees $1/\sqrt{R}$ in the case of large R numbers. After substituting these resolutions into hydrodynamics equations, the terms are equalized with the same degree R numbers; equation systems for finding subsequent approximations are thus found.

"The article presents systems of equations for the sought-for functions of zero approximation and first approximation."

Sum 1258

USSR/Physics - Supersonic Gas Flow

FD-1681

Card 1/1 : Pub. 129-6/25

Author : Gvozdkov, N. N.

Title : ~~Calculation of the friction of a wedge in the supersonic flow of a gas~~
Calculation of the friction of a wedge in the supersonic flow of a gas

Periodical : Vest. Mosk. un., Ser. fizikom. i yest. nauk, Vol 10, 53-60, Feb 1955

Abstract : In his work "Turbulent Friction and Heat Exchange of a Wedge in a Gaseous Stream" (coauthor: M. F. Shirokov, *ibid.*, Oct 1953), employing the exponential laws governing the distribution of velocities and temperatures in the boundary layer, the author established the general methods for calculating the friction and heat exchange of a wedge for an arbitrary distribution of temperature over its surface. In the present work he presents the results of calculations of the coefficient of friction for a plate and wedge where the temperature of their surface maintains over the entire extent a constant magnitude and where the index n of the power law governing the velocity distribution is taken to equal $1/7$. He concludes that the greatest influence upon the friction of the wedge is exerted by the value of the Reynolds number and by the heating of the surface. Three references (L. Ye. Kalikhman, "Resistance and Heat Transfer of a Plate in a Gas Flow at Great Speeds," *PMM*, 9, No 3, 1945; L. G. Loytsanskiy, *Mekhanika zhidkosti i gaza*, GITTL, 1950).

Institution : Chair of Theoretical Physics

Submitted : June 23, 1954

Gvozdkov, N.N.

(Co)
A
Meth

Gvozdkov, N. N. Nonsteady motion of a viscous fluid in the boundary layer, Akad. Nauk Uzbek. SSR Izv. Inst. Mat. Meh. 15 (1935), 99-105. (Russian)

Noting that a boundary layer creates vorticity, the author endeavors to develop a boundary-layer theory for non-steady motion based on vortex theory. Starting with the vortex transport equation, the author recalls that in the initial instants in accelerated motion the convective terms may be neglected, and that the simplified (now linear) equation can be solved exactly for single vortex in the origin. The boundary layer on two sides of a body is replaced by two counter-rotating systems of vortices. The distribution of intensities is selected so as to satisfy the no-slip condition. The case of an infinitely thin plate of length l started impulsively is treated in detail, on the assumption that each of the two systems of vortices affects the flow on its side only. This allows the author to construct an expression for the logarithmic potential, and to derive expressions for the velocity components. These are given in closed form as triple integrals. An expression for skin friction (involving a singular integral) is also derived. The author states that the same idea can be applied to uniform acceleration, and to arbitrary shape by the use of conformal mapping.

The utility of the author's idea cannot be judged in the

1/2

Guozhifan, M.N.

Essence of more detailed results. No comparison of the case treated with the well-known Italian solution [2. Math. Phys. 56 (1968), 1-67] of experiment is given.

J. Kestin (Providence, R.I.)

2/2

DE

AUTHOR: Gvozdkov, N.N. SOV/55-58-1-19/33

TITLE: On the Heat Propagation in a Fixed Porous Body for Percolation of a Fluid (O rasprostraneni tepla v tverdom poristom tele pri prosachivani zhidkosti)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya fiziko-matematicheskikh i yestestvennykh nauk, 1958, Nr 1, pp 147-155 (USSR)

ABSTRACT: The author investigates the heat propagation in porous plates and tubes, where temperature and pressure at both sides of the areas of contact are constant and in the pores there is no vaporization. As patterns the author considers two domains I and II, adjoining immediately one to another. I consists only of the fixed skeleton of the body, II forms a connected flow of the fluid. Because of different thermal properties and because of the flow of the fluid in the direction of higher temperatures there appears a heat interchange, corresponding in the mean to the heat propagation in the plate and in the tube.
There are 2 figures, and 4 Soviet references.

ASSOCIATION: Kafedra statisticheskoy fiziki i mekhaniki (Chair of Statistical Physics and Mechanics)

Card 1/2

10(6)

AUTHOR: Gvozdkov, N.N. SOV/155-58-5-17/37

TITLE: On the Turbulent Gasodynamic Diffusion Boundary Layer on a Plate Under Consideration of the Flow in the Lower Stratum

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskoye nauki, 1958, Nr 5, pp 85-90 (USSR)

ABSTRACT: The author considers the flow around a plate by a turbulent gas flow with simultaneous diffusion of the products of a heterogeneous reaction which takes place on the surface of the plate. The assumption that the turbulent boundary layer possesses the usual structure allows near the surface of the plate to understand a certain region of flow as a lower stratum (as for an incompressible fluid). Under numerous suppositions the author obtains an approximative solution. There are 1 table, and 2 references, 1 of which is Soviet, and 1 German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: December 25, 1957 ✓

Card 1/1

34589

S/044/62/000/001/041/061
C111/C444

26.5100

AUTHOR: Gvozdkov, N.N.

TITLE: On the diffusion of heat in a cone

PERIODICAL: Referativnyy zhurnal. Matematika, no. 1, 1962, 61,
abstract 1 B 291. (Nauchn. dokl. vyssh. shkoly. Fiz.-matem.n.,
1959, no. 3, 14-21)

TEXT: One solves two problems of the theory of heat conduction for a homogeneous sphere sector. In the first one the heating takes place at the side face while at the spheric surface there is no loss of heat. In the second problem one considers a stationary temperature gradient, where the heating of the side face is compensated by the loss of heat at the spheric surface. Both problems are solved by the Fourier method.

[Abstracter's note : Complete translation.]

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GVOZDKOV, N. N. (Voronezh)

"On the Heat Transfer of a Porous Axisymmetric Body in Gas Flows."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

GVOZDKOV, N.N.; VAULIN, Ye.P.; ATENKOV, S., tekhn. red.

[Heat transfer from a porous plate in gas flow; Conference on Heat and Mass Transfer, Minsk, January 23-27, 1961] O teplo-obmene poristoi plastiny v gazovom potoke; soveshchanie po teoplo-i massoobmemu, g. Minsk, 23-27 ianvaria 1961 g. Minsk, 1961. 16 p. (MIRA 15:2)

(Heat—Transmission) (Gas flow)

GVOZDKOV, N. N.

"On Heat Transfer of a Porous Plate in a Gas Flow"

Report presented at the Conference on heat and Mass Transfer.
Minsk, USSR, 5-10 June 61

The problem is being solved on heat transfer between a porous plate and a heated gas flow for a laminar boundary layer with reactions in a volume and on a boundary surface as well as at the diffusion of a reaction products.

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S/057/62/032/002/018/022
B124/B102

26.7/81

AUTHORS: Vaulin, Ye. P., and Gvozdkov, N. N.

TITLE: Heat insulation of a porous plate in a dynamic gas flow by diffusive leakage of a liquid and physicochemical reactions in the laminar flow interface

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 2, 1962, 238 - 247

TEXT: With respect to the complexity of the processes involved, the problem had to be solved by examining first the convection of heat in a porous plate with the leakage of a liquid, and then the heat exchange between the plate and the dynamic gas flow. Thus, the heat convection process in the porous plate with leakage of a liquid is considered. Laminar interface equations are analyzed with respect to physicochemical changes and to the diffusion of reaction or evaporation products in the gaseous flow, and, finally, the special case of heterogeneous physicochemical conversion is treated. For T_1 (temperature at an arbitrary point of the solid skeleton

of the porous plate) one obtains $T_1 = \frac{1}{Pe} \sum_{k=0}^2 c_k \gamma_k e^{(Re/\gamma_k)x} + C_3$. where P is Card (1/5) X

Heat insulation of a ...

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the Peclet number of the leaking liquid, $\psi_k = \frac{3}{1+2\sqrt{1+\epsilon\cos\frac{\psi+2k\pi}{3}}}$, whereas

T_2 is given by $T_2 = \frac{1}{Pe} \sum_{k=0}^2 c_k \psi_k b_k e^{(Pe/\psi_k) x} + C_3$ with $b_k = 1 - \frac{3}{\psi_k^2} (1 - \frac{1+\omega_2}{\omega_2} \frac{\lambda_1}{\lambda_2})$

where ω_1 and ω_2 are the solid and the liquid-filled portion of a given volume of the plate, λ_1 and λ_2 are the heat-transfer coefficients of the solid skeleton and of the pores, respectively, c_k is determined from the system of linear equations

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$$\left. \begin{aligned} T_w^* &= \frac{1}{P_c} \sum_{k=0}^2 c_k \psi_k e^{\frac{P_c}{\psi_k}} + C_3, \\ 1 &= \frac{1}{P_c} \sum_{k=0}^2 c_k \psi_k + C_3, \\ T_w^* &= \frac{1}{P_c} \sum_{k=0}^2 c_k b_k \psi_k e^{\frac{P_c}{\psi_k}} + C_3, \\ 1 &= \frac{1}{P_c} \sum_{k=0}^2 c_k b_k \psi_k + C_3, \end{aligned} \right\} (19),$$

i. e., $c_k = \frac{\Delta_k}{\Delta}$ with Δ_k and Δ being determinants of (19). The total heat balance is given by

$$\sum_{k=0}^2 \Delta_k \left(1 - e^{\frac{P_c}{\psi_k}} \right) \left(1 - \frac{3}{\psi_k^2} \right) = \frac{P_c \Delta}{1 + \frac{1 - \omega_2}{\omega_2} \frac{\lambda_1}{\lambda_2}} (T_w^* - 1). \quad (22).$$

This equation yields the functional relation of the parameters $f(c, P_c, \frac{\lambda_1}{\lambda_2})$.

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heat insulation of a ...

$q_2 = 0$, from which the "internal heat emission" coefficient T_w^* can be determined. The pressure required for the liquid to leak through the plate is given by

$$p_0 = p + \rho_{oz} w \int_0^L \frac{dx}{\kappa(T_2)}, \text{ where } w \text{ is the filtration rate, } \rho_{oz} \text{ is}$$

the specific density of the leaking liquid, and κ is the filtration coefficient. This equation can also be given in the form $P_0 = P_\infty$

$+0.664 c_{1w} \frac{\log \frac{Pr_\infty}{L \kappa}}{L \kappa} Re_\infty^{1/2}$, where α is the heat transfer coefficient between the solid and the liquid portion of the plate, and χ is considered to be independent of temperature. The equation

$$Q = \frac{1}{L} \int_0^L Q_w dx_1 = 0.664 \frac{c_p \rho_\infty u_\infty T_\infty}{P^{1/2} Re_\infty^{1/2}} \left[\frac{T_w}{T_\infty} \left(1 + \frac{|q_1| c_{1w}}{c_p T_w} \right) - \right. \quad (57)$$

$$\left. - \left(1 + \frac{\gamma-1}{2} M_\infty^2 \sqrt{P} \right) \right]. \quad \text{or } Q = -\frac{T_{0r}}{l} \sum_{k=0}^2 \frac{\Delta_k}{\Delta} e^{\frac{P_0}{\Delta k}} (\omega_1 \lambda_1 + \omega_2 \lambda_2 b_k). \quad (58)$$

may be used to calculate the mean heat flow in the section. By comparing

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(57) with (58), $\frac{T_o}{T_\infty} = \frac{T_w}{T_\infty} \left(1 + \frac{1.91/c_{1w}}{c_p T_\infty} \right) + 1.5P^{-1/3} Re_\infty^{-1/2} \frac{L}{1} \frac{T}{T_\infty} \sum_{k=0}^2 (\omega_k \frac{\lambda_1}{\lambda_\infty} + \omega_2 \frac{\lambda_2}{\lambda_\infty} b_k) \frac{4k}{\Delta} e^{Pe/\psi k}$ (59) which interrelates the critical parameters of

the gas, the coolant, and the characteristics of the porous plate. The necessary consumption of cooling liquid is determined under given conditions from Eq. (56). Dorodnitsin (Ref. 4: N. Ye. Kochin, N. A. 'Kibel', N. V. Roze, Teoreticheskaya gidromekhanika (Theoretical hydromechanics), p. 2, Gostekhizdat, 1958) is mentioned. The authors thank M. F. Shirokov. There are 1 figure and 5 references: 4 Soviet and 1 non-Soviet.

ASSOCIATION: Kafedra statisticheskoy fiziki i mekhaniki MGU, Fizicheskiy fakul'tet (Department of Statistical Physics and Mechanics of MGU, Division of Physics)

SUBMITTED: December 16, 1957 (initially)
November 2, 1960 (after revision)

Card 5/5

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L 18787-63 EPR/EPA(b)/EPF(c)/EWT(l)/EPF(n)-2/EWP(q)/EWT(m)/BDS AEDC/ASD/
AFFTC/AFMDC/IJP(C)/SSD P5-4/Pd-4/Pr-4/Pu-4 WW/JD
ACCESSION NR: AR3006439 S/0124/63/000/008/B084/B084

SOURCE: RZh. Mekhanika, Abs. 8B571

AUTHOR: Gvozdkov, N. N. 83

TITLE: Heat exchange of a porous body of rotation with streamline flow around it
by a gas dynamic current 4

CITED SOURCE: Tr. Voronezhsk. un-ta, v. 61, 1962, 9-16

TOPIC TAGS: streamline flow, laminar flow, heat of reaction, heat exchange
viscosity, heat propagation

TRANSLATION: The equation of a compressed laminar boundary layer in the neighborhood of an advance critical point of an axially symmetric body is considered. The equation of motion of a binary reactive mixture gases with the use of a series of simplifications (concerning values of the product of the density by the viscosity and the parameter, associated with heat of reaction) reduces to the system of ordinary differential equations having self-reproducing solutions.

The thermal balance equation at a porous surface is written, taking account of the problem earlier treated by the author, of the propagation of heat in a one-dimensional porous body. V. P. Mugalev

DATE ACQ: 28Aug63

SUB CODE: AI, PH

ENCL: 00

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L 13157-63
Pu-4 EM

EWP(r)/EWT(1)/EPF(n)-2/EWT(m)/BDS AFFTC/ASD/SSD
S/170/63/000/004/012/017

AUTHOR: Gvozdkov, N. N. 62

TITLE: Nonstationary heating of a cone 21 26

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 4, 1963, 96-100

TEXT: The author considers the boundary problem of heat propagation in a cone when there is a temporarily variable temperature at its lateral surface while heat transfer is lacking on the spherical surface delimiting the conical body. The solution is given as a series arranged according to the products of spherical functions times the Bessel ones. The order of these functions and eigenvalues of the problem are also found. There are 19 equations.

ASSOCIATION: Gosudarstvennyy universitet (Voronezh) (State University (Voronezh))

SUBMITTED: Jul 20, 62

Card 1/1

GVOZDKOV, N.N.; KHOLOPOV, V.L.

Heat propagation in a hollow conical body. Inzh.-fiz. zhur. 6
no.5:119-123 My '63. (MIRA 16:5)

1. Gosudarstvennyy universitet, Voronezh.
(Heat--Conduction)

L:17143-63

Pr-4/Pu-4/Ps-4

WW

EPR/EPF(c)/EWT(1)/EPF(n)-2/BDS AFPTC/ASD/IJP(C)/SSD

ACCESSION NR: AP3000449

S/0170/63/006/005/0119/0123

AUTHOR: Gvozdkov, N. V.; Kholopov, V. L.

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TITLE: Heat convection²⁾ in a conical cavity

SOURCE: Inzhenerno-fizicheskij zhurnal, v. 6, no. 5, 1963, 119-123

TOPIC TAGS: heat convection, conical cavity, variable separation

ABSTRACT: The heat conduction equation for a conical cavity with transient boundary conditions, and defined by the solid angles $2\alpha_1$ and $2\alpha_2$ (α_1 is greater than α_2) and a sphere of unit radius is solved by the method of separation of variables (cf. Gvozdkov, N. N., Inzhenerno-fizicheskij zhurnal, no. 4, 1963). The solution is represented by equation (10) of Enclosure 1. The index n_e of the Bessel functions in the solution is determined from equation (8) of Enclosure 1 and the eigenvalues $\lambda_{ne}^{(s)}$ from equation (9) of Enclosure 1. Approximate methods of solving these equations are given. Some results obtained by the method using a Ural-1 computer are presented in the table of Enclosure 2. Orig. art. has: 25 formulas and 1 table.

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Gvozdkov, N. V.; Kholopov, V. L.

L 17773-63

ACCESSION NR: AP3005846

the intensity and degree of polarization of the radiation "reflected" from a layer of infinite optical thickness, observation in a direction perpendicular to the layer. Numerical calculations are carried out for the two extreme cases of polarization $p(\lambda_0) = 1/2$ and $-1/3$. Equations are given for the Stokes parameters, intensities and degrees of polarization of the primary and secondary luminescence in the different cases for illumination by natural light and by linearly polarized light. In addition some of these quantities are plotted as functions of the optical thickness of the layer. The authors also make some remarks concerning experimental measurements of the degree of polarization and the need for taking into account the influence of secondary absorption and emission processes in performing such measurements. The results of polarization calculations for a particular case are compared with experimental data in a table. "In conclusion, the authors express their deep gratitude to B.I.Stepanov for his great interest in the work." Orig.art.has: 31 sets of equations, 6 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 24 Dec62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 001

Card 2/2

GVOZDKOV, P.Z., dvazhdy Geroy Sotsialisticheskogo Truda; SHURYGIN, A.P.,
kand, sel'skokhoz, nauk

A Volga region collective farm is introducing efficient farming
practices. Zemledelie 7 no.9:15-21 S '59. (MIRA 12:11)

1. Predsedatel' kolkhoza "Deminskiy" Novo-Annenskogo rayona, Stalin-
gradskoy oblasti (for Gvozdkov).
(Volga Valley—Agriculture)

ANDRIANOV, S.N., kand. sel'khoz. nauk; D'YACHENKO, A.Ye., kand. sel'-khoz. nauk; GYOZDKOV, P.Z., dvazhdy Geory Sotsialisticheskogo Truda; BIZYAYEV, I.A., inzh.-lesomeliorator; REDINA, V.P., agrolesomeliorator; ADEL'FINSKAYA, Ye.N., red.; SAYTANIDI, L.D., tekhn. red.

[Shelterbelt afforestation in the steppe] Polezashchitnoe lesorazvedenie v stepi. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1962. 108 p. (MIRA 15:5)

1. Predsedatel' kolkhoza "Deminskiy" Novo-Annenskogo rayona Volgogradskoy oblasti (for Gvozdkov). (Windbreaks, shelterbelts, etc.)

NEDOCHETOV, I.S., dotsent; GVOZDKOV, V.M., kand. med. nauk

Treatment of nonspecific arthroses with autohemonovocaine under
conditions of polyclinics. Sbor. nauch. rab. Sar. gos. med. inst.
44:219-223 '64. (MIRA 18:7)

GVAZ. RAV, Vasilii Mikhaylovich

Of the method of analysis and treatment of the sick with injuries.

Dissertation for candidate of a Medical Science degree.
Polyclinic Saratov (gorodskaya bol'nitsa) 1955

GVOZDKOVA, E.M.

Clinical significance of noise in the umbilicus in prevention of stillbirths. Akush.i gin. no.2:65-66 Mr-Ap '53. (MLRA 6:5)

1. Tsentral'nyi roditel'nyi dom Astrakhanskogo gorodskogo zdravotdela. (Stillbirth)

LAVRENT'YEV, P.A., prof.; KOZLOV, Ye.M., mladshiy nauchnyy sotrudnik;
GVOZDKOVA, N.A., starshiy laborant

Prolongation of the insecticidal action of chlorophos. Veterinar'ia
41 no.8:90-92 Ag '64. (MIRA 18:4)

1. Kazanskiy veterinarnyy institut.