

BELONOGOV, K.N.; BOLES LAVSKAYA, N.F.; GOSTIKIN, V.P.; NISHCHENKOVA, L.G.

Catalytic reduction of nitro derivatives by hydrogen. Part 1:
Effect of certain factors on the activity and stability of nickel
catalysts in the reduction of nitro derivatives by hydrogen in the
liquid phase. Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.5:781-786
'63. (MIRA 16:12)

1. Ivanovskiy khimiko-tekhnologicheskii institut, kafedra fizicheskoy
i kolloidnoy khimii.

NISHCHENKOVA, L.G.; BELONOGOV, K.N.; GOSTIKIN, V.P.; ZHORKIN, N.V.;
BAENEYEV, A.D.

Catalytic reduction of nitro derivatives with hydrogen. Part. 3:
Continuous reduction of sodium para nitrophenolate on mixed
catalysts. Izv. vys. ucheb. zav., khim. i khim. tekh. 7 no.5:
782-786 '64 (MIRA 18:1)

1. Kafedra fizicheskoy i kolloidnoy khimii Ivanovskogo khimiko
tehnologicheskogo instituta.

GOSTILNICHAROV, N.

"Coastal Radio Station."

p. 4 (Radio I Televiziia, Vol. 7, No. 6, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11,
Nov. 1958

GOSTILOVSKAYA, M.G.

New and little-known Bryozoa (Cyclostonata) from the White Sea.
Trudy Zool. inst. 18:100-105 '55. (MIRA 9:2)
(White Sea--Polyzoa)

GOSTILOVSKAYA, M.G.

Polyzoa of the White Sea. Mat. po kompl.izuch. Bel. mor. no.1:474-477
'57. (MLBA 10:8)

1. Murmanskaya biologicheskaya stantsiya AN SSSR.
(White Sea--Polyzoa)

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELKOV, A.A.; KOLTUN, V.M.; NAUMOV, D.V.; IVANOV, A.F.; BYKHOVSKIY, B.Ye. ZHUKOV, Ye.V.; PIERGAMENT, T.S.; KOBOTKEVICH, V.S.; USHAKOV, P.V.; KLYUGE, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.; GUSEV, A.V.; TARASOV, N.I.; GUR'YANOVA, Ye.F.; VAGIN, V.L.; IOMAKINA, N.B.; BULYCHEVA, A.I.; KOPYAKOVA, Z.I.; LOZINO-LOZINSKIY, L.K.; YAKOVLEVA, A.M.; GALKIN, Yu.I.; SKARIATO, O.A.; AKIMUSHKIN, I.I.; D'YAKONOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.; SKALKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 '59.
(MIRA 13:3)

1. Zoologicheskiy institut AN SSSR.
(Sakhalin--Marine fauna)
(Kurile Islands--Marine fauna)

GOSTILOVSKAYA, M.G.

Bryozoa of Novaya Zemlya (the strait of Matochkin
Shar and Moller Bay). Trudy MMBI no.4:64-96 '62. (MIRA 15:11)

1. Laboratoriya gidrobiologii (zav. -- M.M. Kamshilov)
Murmanskogo morskogo biologicheskogo instituta.
(Novaya Zemlya--Polyzoa)

GOSTILOVSKAYA, M.G.

Bryozoa collected by the expedition on the icebreaker "F.
Litke" in 1955 north of Franz Josef Land and Spitsbergen.
Trudy AANII 259:191-228 '64. (MIRA 17:12)

GOSTILOVSKAYA, M. I.

Gostilovshaya, M. I. "The phytoplakton of Gridin bay in the white Sea",
Roboty Mor. biol. stantsii Karelo-Din. gos. un-ta, Issue 1, 1947, (In column
heading: 1948), p. 93-103, - Bibliog: 11 items.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

L 19453-63 EWT(l)/FCC(w)/FS(v)-2/BDS/ES(a)/ES(j)/ES(c)/ES(k)/ES(t)-2/
EEO-2/ES(v) AFFTC/AMD/AFMDC/ESD-3 Pb-l/Pi-l/Po-l/Pq-l/Pe-l TT/A/RD/DD
ACCESSION NR: AP3007352 S/0293/63/001/001/0186/0191

53 B
52

AUTHOR: Khvostova, V. V.; Gostimskiy, S. A.; Mozhayeva, V. S.;
Nebzgodina, L. V.

TITLE: Further study of the influence of conditions of space flight 2)
on chromosomes of primary roots of pea and wheat sprouts

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 186-191

TOPIC TAGS: space flight effect, chromosome reconstruction, 660-
Mev proton, cobalt 60 Gamma ray, Vostok 1, Vostok 2, Vostok 3,
Vostok 4

ABSTRACT: Dry seeds of winter wheat (PPG-186) and peas ("Kapital"
variety) were exposed to effects of space flight on the four Vostok
spaceships. A cytological analysis of the sprout roots of seeds in-
dicated that exposure to space flight resulted in a small but sta-
tistically significant increase in chromosome reconstructions. The
percentage of reconstructions does not depend on the duration of
flight. More reconstructions were found in seeds flown in Vostok-2 12
than in seeds flown in Vostok-3, in which there was a distinct,

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ACCESSION NR: AP3007352

but not statistically significant increase. There was no increase in the number of reconstructions in seeds flown in Vostok-4. Control seeds were subjected to radiation and vibration in an attempt to identify which aspects of space flight were responsible for the increase. Exposure to vibration (70 cps; amplitude, 0.4 mm) for 4 hr did not increase the number of reconstructions. Exposure of seeds to 660-Mev protons (dose 1940 rad; rate, 43/min) was no more effective as far as the number of reconstructions is concerned than exposure to Co^{60} γ -rays (dose, 1940 rad; rate, 289/min). Orig. art. has: 4 tables.

ASSOCIATION: none

SUBMITTED: 24Apr63

DATE ACQ: 21Oct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 007

OTHER: 001

Card 2/2

GOSTEMSKIY, S.A.; KIVGOSTOVA, V.V.

Effect of chemical mutagens on two pea varieties. *Biul. MOIP. Otd.*
biol. 70 no.4:148-152 J1-Ag '65. (MIRA 18:9)

GOSTIMSKIY, S.A.; KHVOSTOVA, V.V.

Change in the rate of chromosome reorganization induced by ethylenimine in the first mitosis of pea rootlets. Dokl. AN SSSR 162 no.1:197-200 My '65. (MIRA 18:5)

1. Institut biologicheskoy fiziki AN SSSR. Submitted June 25, 1964.

MODZALEVSKAYA, Ye.A.; FREYDIN, A.I.; GOSTINTSEV, K.K.

Recent data on Lower Carboniferous deposits of the middle
Amur Valley. Dokl. AN SSSR 148 no.3:672-675 Ja '63.

(MIRA 16:2)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-
razvedochnyy institut. Predstavleno akademikom D.V. Malivkinym.
(Skovorodino District—Geology, Stratigraphic)

GOSTINTSEV, K.K.; POLYAKOVA, N.N.

"Gatchettite" and evenkite from the Suchan coal basin. Trudy VNIIGRI
no.227 Geokhim.sbor. no.9:112-118 '64.

(MIRA 18.1)

L 31324-66 EWT(m) WW/JWD

ACC NR: AP5026068

SOURCE CODE: UR/0405/65/000/002/0069/0075

AUTHOR: Gostintsev, Yu. A. (Moscow); Margolin, A. D. (Moscow)

ORG: none

TITLE: Nonsteady-state powder combustion under the action of pressure pulses

SOURCE: Nauchno-tekhnicheskiye problemy gorenija i vzryva, no. 2, 1965, 69-75

TOPIC TAGS: solid propellant, combustion, combustion theory, nonsteady state combustion, combustion instability, solid propellant combustion

ABSTRACT: An analysis was made of the nonsteady-state combustion of solid propellants induced by rectangular or triangular pressure pulses. Combustion of a semi-infinite charge was analyzed on the basis of the Zel'dovich theory of powder combustion. The nonlinear equations of heat conduction were solved through the use of integral relationships. As a result, a diagram was obtained which shows the regions of flame extinction as a function of the intensity and duration of the pressure pulses. The optimum condition for extinction exists when the duration of the pressure pulse is of the same order of magnitude as the thermal relaxation time of the heated propellant layer. With very short pressure pulses, the theoretical

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UDC: 536.46+532.501.32

L 31324-66

ACC NR: AP5026068

results do not correspond to the experimental results because the processes in the gas and condensed phases are not quasi-steady state as assumed in the analysis. Orig. art. has: 20 formulas and 3 figures. [ATD PRESS: 4125]

SUB CODE: 21 / SUEM DATE: 24Feb65 / ORIG REF: 011 / OTH REF: 001

Card 2/2

L 4521-66 EWT(1)/EWP(m)/EWT(m)/EPF(c)/ETC/EPF(n)-2/EWG(m)/EWP(j)/I/FCS(k)/EWA(c)

ACC NR: AP5026068 EWA(1) RFL WW/JW/WE/RM SOURCE CODE: UR/0405/65/000/002/0069/0075

AUTHOR: Gostintsev, Yu. A. (Moscow); Margolin, A. D. (Moscow)

ORG: none

TITLE: Convective heat and mass transfer in combustion of chemically active substances in the boundary layer on a porous surface

SOURCE: Nauchno-tehnicheskiye problemy gorenija i vzryva, no. 2, 1965, 69-75

TOPIC TAGS: combustion, heat transfer, cooling, transpiration cooling, combustion chamber

ABSTRACT: Thermal protection of walls by injection of a liquid or gaseous coolant through the porous wall was analyzed on the basis of experimental data obtained previously by N. G. Kulgein (Journal of Fluid Mechanics, 12, 3, 1962) with methane injected through the wall into an air stream. In the present article, methane, oxygen, and carbon dioxide concentration profiles in the boundary layer with and without combustion were plotted. The validity of analytical solutions is discussed on the basis of a plot of the skin friction coefficient, Stanton number, and mass transfer coefficient vs Reynolds number. The dimensionless relationships obtained correlated with the experimental data with an accuracy of +30%. Systematic experiments using other types of combustible systems including liquids are recommended. Orig. art. has: 2 figures and 10 formulas. [PV]

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L 4521-66

ACC NR: AP5026068

0

SUB CODE: ~~FP, TO, M~~/SUBM DATE: 24 Feb 65/ ORIG REF: 011/ OTH REF: 001/ ATD PRESS 4/30

OC

Card 2/2

L 27200-65 EWP(e)/EAT(m)/EWP(k)/EWP(t)/EWP(b) Pr-4 JD
 S/0207/64/000/005/0167/0168
 ACCESSION NR: AP5002683

AUTHORS: Gostintsev, Yu. A. (Moscow); Margolin, A. D. (Moscow) 22

TITLE: On the nonstationary combustion of thin plates of powder 15
 8

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1964, 167-168

TOPIC TAGS: combustion, powder combustion rate, powder, porous medium 4

ABSTRACT: The equations governing the nonstationary combustion of a plate of powder are solved by the method of integral relations. A formula is obtained for the time of complete combustion, τ_+ , of a plate of thickness $2\delta_0$. The combustion was considered to take place along the two unbounded directions parallel to the plane of the plate. The system of equations governing the combustion of the plate is:

$$\omega = \eta - (\eta - 1) \left(\frac{\partial \theta(\xi, \tau)}{\partial \xi} \right)_{\xi=1}$$

$$\frac{\partial \theta(\xi, \tau)}{\partial \tau} = \frac{\partial^2 \theta(\xi, \tau)}{\partial \xi^2} \quad (\tau > 0, 0 < \xi < \delta(\tau))$$

$$\theta(\xi, \tau) = 1 \text{ at } \xi = \delta(\tau), \quad \frac{\partial \theta(\xi, \tau)}{\partial \xi} = 0 \text{ at } \xi = 0, \quad \theta = \frac{ch\xi}{ch\delta} \text{ at } \delta \rightarrow \delta_0$$

All the quantities here are dimensionless; ω is the stationary rate of
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L 27200-65
ACCESSION NR: AP5002883

combustion, η a parameter characterizing the porosity of the plate, ϑ the temperature at any point, τ the time, and ξ the distance along the thickness of the plate. The time for complete combustion was obtained in the form

$$\tau_c = \frac{\eta - 1}{\eta} \left[\frac{\delta_0}{\eta - 1} - \psi_0 (th \delta_0 - \delta_0) \right]$$

where ψ_0 is the value at the center of the plate of the function $\psi(\tau)$ given by

$$\theta = \psi(\tau) \frac{ch \xi}{ch \delta(\tau)} + 1 - \psi(\tau)$$

Orig. art. has: 2 figures and 11 formulas.

ASSOCIATION: none

SUBMITTED: 07Feb64

ENCL: 00

SUB CODE: FP

NO REF SOV: 002

OTHER: 002

Card 2/2

SOURCE CODE: U:/0421/66/000/006/0045/0049

ACC NR: AP7001570

AUTHORS: Gostintsev, Yu. A. (Moscow); Margolin, A. D. (Moscow)

ORG: none

TITLE: Boundary layer on the free surface of a flat vortex

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 6, 1966, 45-49

TOPIC TAGS: boundary layer, incompressible flow, vortex flow, Laplace transform

ABSTRACT: The rotary motion of a viscous incompressible fluid is analyzed with a cavity of radius r_0 in the center. The flow is assumed to be unsteady and governed by the equation

$$\frac{\partial V_\phi}{\partial t} = \nu \left(\frac{\partial^2 V_\phi}{\partial r^2} + \frac{1}{r} \frac{\partial V_\phi}{\partial r} - \frac{V_\phi}{r^2} \right).$$

The boundary conditions are $\frac{\partial V_\phi}{\partial r} - \frac{V_\phi}{r} = 0$ at $r = r_0$, $V_\phi \rightarrow 0$ as $r \rightarrow \infty$, and the initial condition is $V_\phi = \frac{\Gamma}{2\pi r}$ at $t = 0$. The solution is obtained by using a Laplace transformation. The inversion of the transformation is obtained for two limiting cases only. For small times, $\nu t/r_0^2$, the tangential velocity is

$$V_\phi(r=r_0, t) = \frac{\Gamma}{2\pi r_0} \left(1 - \frac{4\sqrt{\nu t}}{r_0\sqrt{\pi}} + \frac{3\nu t}{r_0^2} - \frac{5(\nu t)^{3/2}}{r_0^3\sqrt{\pi}} + \dots \right);$$

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ACC NR: AP7001570

and for very long times the solution is the same as that of a rigid body with very small angular velocity. A second method is introduced which consists of a vortex boundary layer approximation $\epsilon \sim r^{1/2}$. Using the Karman-Pohlhausen momentum integral method, this analysis leads to an identical result for small times as the first method described above. Orig. art. has: 10 equations and 2 figures.

SUB CODE: 20/ SUBM DATE: 13May66/ ORIG REF: 005/ OTH REF: 002

Card 2/2

MASLENNIKOV, D.S., arkhitekto; Primali uchastiye: GOSTINTSEVA,
starshiy tekhnik-meteorolog; ABRAMOVA, V.S., starshiy tekhnik-
chertezhnik; IVANOV, V.K., maketchik-fotograf.

Sun exposure of building in block no.9 in Novyye Cheremushki.
Issl.po mikroklim.nasel.mest i zdan.i po stroi.fiz. no.1:34-53 '62.
(MIRA 15:9)

(Moscow—city planning)

GOSTISA, B.

Hydrologic conditions in the basin of Ribnica-Kocevje and their influence on the opening of and digging in the coal mine District of Kocevje. p. 113.

NOVA PROIZVODNJA. (Zveza drustev inzenirjev in tehnikov IRS)
Ljubljana, Yugoslavia. Vol. 10, no. 2, Apr. 1959.

Monthly list of the East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

LITVIN-MAKSYUTA, K.M.; KRYSENKO, N.S.; GOSTISHCHEV, K.P.

Regeneration of sodium xanthogenate from cobalt xanthate sinter
cakes. TSvet. met. 35 no.5:78-80 My '62. (MIRA 16:5)
(Nonferrous metals--Metallurgy) (Xanthic acid)

LITVIN-MAKSYUTA, K.M.; KRYSENKO, N.S.; GOSTISHCHEV, K.P.

Obtaining a cobalt concentrate from a cobaltic xanthate cake.
Zhur. prikl. khim. 36 no.5:1135-1136 My '63. (MIRA 16:8)

(Cobalt) (Power metallurgy)

LITVIN-MAKSYUTA, K.M.; GOSTISHCHEV, K.P.; KRYSENKO, N.S.; POLYAKOVA,
M.N.; ZUBENKO, K.L.; KOZACHENKO, V.K.; VASIL'YEVA, N.M.

Regeneration of xanthate from cobalt cake. Tsvet. met. 38
no.6:44-45 J₆ '65. (MIRA 18:10)

GOSTISHCHEV, V.G.; KULIKOV, A.D.

The URRU-1 universal radioactive level indicator. Biul.tekh.-
ekon.inform. no.1:40-42 '62. (MIRA 15:2)
(Level indicators)

S/272/63/000/002/008/009
E032/E114

AUTHORS: Gostishchev, V.S. and Sharashkin, E.N.

TITLE: A device for charging DK-0.2 (DK-0.2) dosimeters using the phenomenon of electrification

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, Metrologiya i izmeritel'naya tekhnika, no.2, 1963, 123-124, abstract 2.32.821. (Sb. rabot N.-i. in-ta tekhnol. mashinostr. Sovnarkhoz Rostovsk. ekon. adm. r-na, no.2, 1961, 91-96)

TEXT: A charging device using the phenomenon of electrification was developed at Rostov NIITMe for charging DK-0.2 dosimeters. The device consists of a friction disk made of perspex, a base to which a rubber mat is attached, a reflecting foil for illuminating the dosimeter scale and fibre by reflected light and a contact-rod housing. When the friction disk rotates, the rubber mat, which is pressed against it, transfers a positive charge to the disk and this charge is taken off by copper threads passing through the rubber mat. The charge is then transmitted

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A device for charging DK-0.2 ...

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E032/E114

to the contact rod and through it to the dosimeter fibre. Eventually, the potential of the fibre increases to the necessary level. The charging device has been tested and found satisfactory. Information is given on the order in which the charge of the dosimeters is carried out with this device. 4 figures.

[Abstractor's note: Complete translation.]

Card 2/2 :

GOSTISHCHEV, Viktor Sergeyevich; VINOGRADOVA, O.K., red.

[Work experience of the Base Isotope Laboratory of the
North Caucasus Economic Council] Opyt raboty bazovoi izo-
topnoi laboratorii Severo-Kavkazskogo SNKh, Moskva,
Atomizdat, 1965. 54 p. (MIRA 18:10)

GRIGORYAN, A.V.; GOSTISHCHEV, V.K.

Prophylaxis of postoperative thromboses and thromboembolism in lung cancer. Grud. khir. 6 no.5:81-85 S-0 '64.

(MIRA 18:4)

1. Klinika obshchey khirurgii lechebnogo fakul'teta (zav. - chlen-korrespondent AMN SSSR prof. V.I.Struchkov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova. Adres avtorov: Moskva, Internatsional'naya ulitsa, dom 11, Bol'nitsa imeni Medsantrud.

35608

S/193/62/000/002/003/006
A004/A101

26.2190

AUTHORS: Gostishchev, V. S., Kulikov, A. D.

TITLE: The PCV -1 (RSU-1) radioisotope tracking level gage

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 2, 1962, 26-29

TEXT: The authors report on the new RSU-1 radioisotope tracking level gage with float, developed by the Rostovskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (Rostov Scientific Research Institute of Mechanical Engineering Technology). The level gage is intended for the automatic measurement and regulation of the liquid level in closed and open vessels, and also for the dosing of such liquids. The device can be used in all fields of industry for the automation of processes connected with the storage and processing of liquids. The RSU-1 level gage consists of the electronic relay block, which is a two-channel gamma-relay, and a column with the tracking unit. Besides, an electromagnetic reversing trigger is used in the device, the trigger being controlled by signals of the electronic relay block and serving to reverse the motor of the tracking system. The latter consists of the AOЛП-4 (AOLP-4) electromotor, a two-stage worm reducer, screw, clasp nut with lead wedge and column base. The

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S/193/62/000/002/003/006
A004/A101

The PCY -1 (RSU-1) radioisotope ...

float with the gamma-radiation source (isotope of cobalt Co^{60} or cesium Cs^{137}) of an activity of 0.1 - 0.2 mg-equiv. Radium is made of stainless steel, fluoroplastic, glass, etc. In the "neutral" position the gamma-radiation source radiates simultaneously on a group of counters located both above and below the lead wedge, as a result of which a pulse current passes through the load resistor of the upper and lower counter groups whose constant component is proportional to the counting rate. If the level changes and, consequently the float position, the counter group is radiated nonuniformly which causes them to shift until the given liquid level is attained. A detailed description of the functioning of the device and the following technical data are given: Level measurement range - 0-1,000 mm; level measuring accuracy - ± 10 mm; tracking speed - 500 mm/min; minimum radiation intensity of counters - 100 impulses/sec.; rated supply voltage of the electronic relay block at 50 cps frequency - 220 v; maximum current passing through the regulation unit contacts - 3 amp; overall dimensions: of the electronic relay block - 110 x 180 x 250 mm, of the column - 1,360 x 385 x 230 mm; weight: of the block - 4.7 kg, of the column - 35.0 kg. The RSU-1 device has been successfully tested on distillation columns of the Volgo-donskiy kombinat sinteticheskikh zhirozameniteley (Volga-Don Combine of Synthetic Fat Substitutes). There are 2 figures.

Card 2/2

GOSTISHCHEV, V.S.; RUSSKIKH, V.I.

Automatic control of paint spreaders by means of radioisotope
devices. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.1
tekh.inform. 17 no.1:49-50 '64. (MIRA 17:2)

GOSTISHCHEV, V.S.; TREN, B.M.; ZEYTMAN, G.I.; DIANOV, V.F.

Nomogram of the exposure of steel to gamma rays. Zav. lab. 30
no.10:1281-1282 '64. (MIRA 18:4)

1. Bazovaya izotopnaya laboratoriya Severo-Kavkazskogo soveta
narodnogo khozyaystva i Taganrogskiy zavod "Krasnyy kotel'shchik".

GOSTKHORZHEVICH, P.

Bridge Crane for construction of 2-and 3-story houses. Npv.neft.
tekhn.: Stroitel. mont. no.4:1-2 '48. (MLBA 9:5)
(Cranes, derricks, etc.)

GOSTKHORZHEVICH, Ya. V., inzhener.

Control system for four-speed motors. Prom.energ.12 no.2:16-
19 F '57. (MIRA 10:3)

1. Rostovskoye otdeleniye Teploelektroproyekta.
(Electric motors, Induction)

GOSTKOWSKA, Bozena

Determination of ultratrace impurities in solids by the double focusing mass spectrograph. Przegl elektroniki 5 no.8:376-382 Ag '64.

1. Institute of Physics, Polish Academy of Sciences.

POLAND

GOSTKOWSKA, Bozena

Polish Academy of Sciences (PAN)

Warsaw, Przegląd geologiczny, No 5, May 1966, pages 225-229

"Determining the age of rocks by means of a mass-spectrometer."

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516420005-

POLAND

GOSTKOWSKA, Bozena; EKIERT, Halina

Institute of Physics, Polish Academy of Sciences
(Instytut Fizyki PAN) - (for both)

Warsaw, Przegląd elektroniki, No 5, May 1966, pages
229-234

"Attempts at spectrographic determination of trace
impurities in semiconductor materials using high-
frequency plasma generator as an excitation source."

ACC NR: AP6027552

SOURCE CODE: PO/0053/66/000/005/0229/0234

AUTHOR: Gostkowska, Bozena; Ekiert, Halina

ORG: Institute of Physics of the Polish AS (Instytut Fizyki PAN)

TITLE: The spectrographic determination of trace impurities in semiconductors using a plasma generator

SOURCE: Przegląd elektroniki, no. 5, 1966, 229-234

TOPIC TAGS: impurity band, impurity center, impurity conductivity, ~~semiconductor~~
~~semiconductor~~ semiconductor crystal, spectrographic analysis, laser, laser optics, ~~PLASMA~~
~~GENERATOR~~

ABSTRACT: The article reports on experiments made on various materials (boron, bismuth, antimony) in various atmospheres (air, argon, argon-nitrogen) at the Institute of Semiconductor Technology (Zakład Technologii Polprzewodników) of the Institute of Physics of the Polish AS to determine the feasibility of using a high frequency plasma generator as an excitation source for the spectral analysis of trace impurities in semiconductor materials. The most suitable frequency proved to be 20mc. The circuit of plasma gas was maintained at an operating pressure of 1 atm. The presence of Si, Mg, Cu, Mn, Mo, Fe, Al, As, Bi, Tl, Sb, Pb, Ni, Na, and Ca was determined in quantities on the order of 10^{-5} to 1%. The investigation was undertaken because up to the present researchers in the field had used graphite (in one case graphite-tungsten) electrodes and determined rather large concentrations of individual trace elements principally in

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UDC: 621.389

ACC NR: AP6027552

solution or in solid or powdered samples and no one had used a plasma burner for the analysis of trace impurities. In these experiments samples in the form of rods were used. It was possible to use the plasma generator as a source of excitation thanks to the use of copper instead of graphite for the auxiliary electrodes. The method described requires large analysis samples which can be its advantage or disadvantage depending on conditions. Orig. art. has 3 figures and 4 tables.

SUB CODE: 201 SUBM DATE: none/ ORIG REF: 004/ OTH REF: 004/

Card 2/2

GUSTKO WSKA, H.

Little INVESTIGATION OF THE EFFECT OF BIZANE AND OTHER
CHANGE IN THE QUALITY OF COFFEE WHEN STORED IN
... and ...

POLAND / Chemical Technology. Processing of Solid
Fossil Fuels.

H-22

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78999.

Author : Dobrowolski, M., Gostkowska, H.

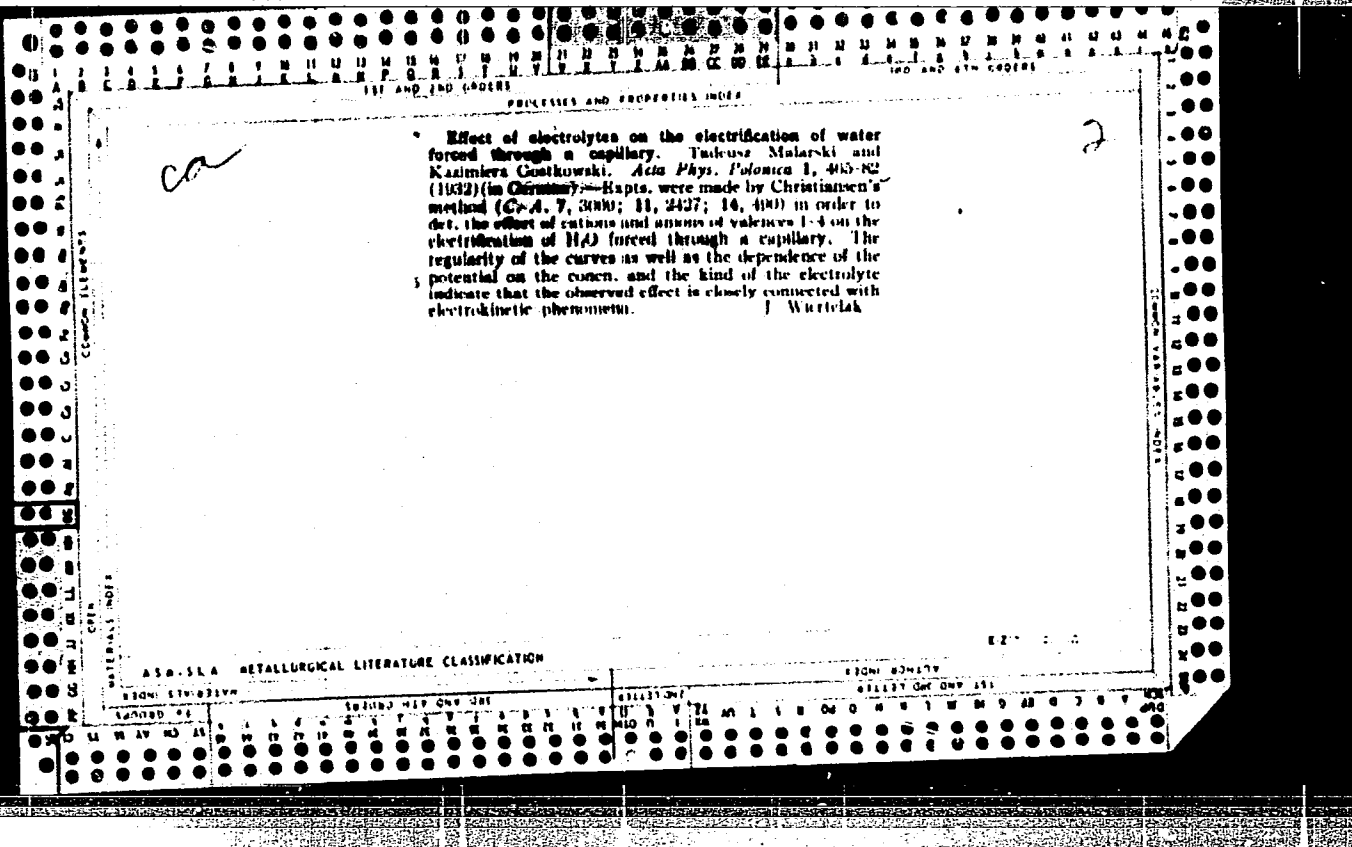
Inst : Not given.

Title : The Effect of Tamping Upon the Quality and Yield
of Coke.

Orig Pub: Koks, smola, gaz, 1957, 2, No 6, 253-259.

Abstract: Experimental carbonization with and without tamping of a charge was carried out under comparable conditions in coke ovens of Otto's system. It was demonstrated that the volume weight of a charge can be increased up to 30% with tamping. The coke produced with the application of tamping had a lesser wearability, but practically the same drum test (Micum's method) as in the

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PROCESSES AND PROPERTIES INDEX

2

The relation between electrokinetic potential and equivalent conductivity. K. Gostkowski. *Acta Phys. Polonica 1, 403-6(1932)*(in German); cf. preceding abstract.—The relation between the electrification of a soln. of an electrolyte forced through a capillary tube and the equiv. cond. is expressed by the formula: $\lambda_2/V = K(V''/V')$ in which V is the potential of a Pt plate hit by a streaming liquid, and K a proportionality factor of the order 1.
J. Wiertelak

ALSO-51A METALLURGICAL LITERATURE CLASSIFICATION

RECORDS

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
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PROCESSES AND PROPERTIES INDEX

Common Elements
Common Variable Index

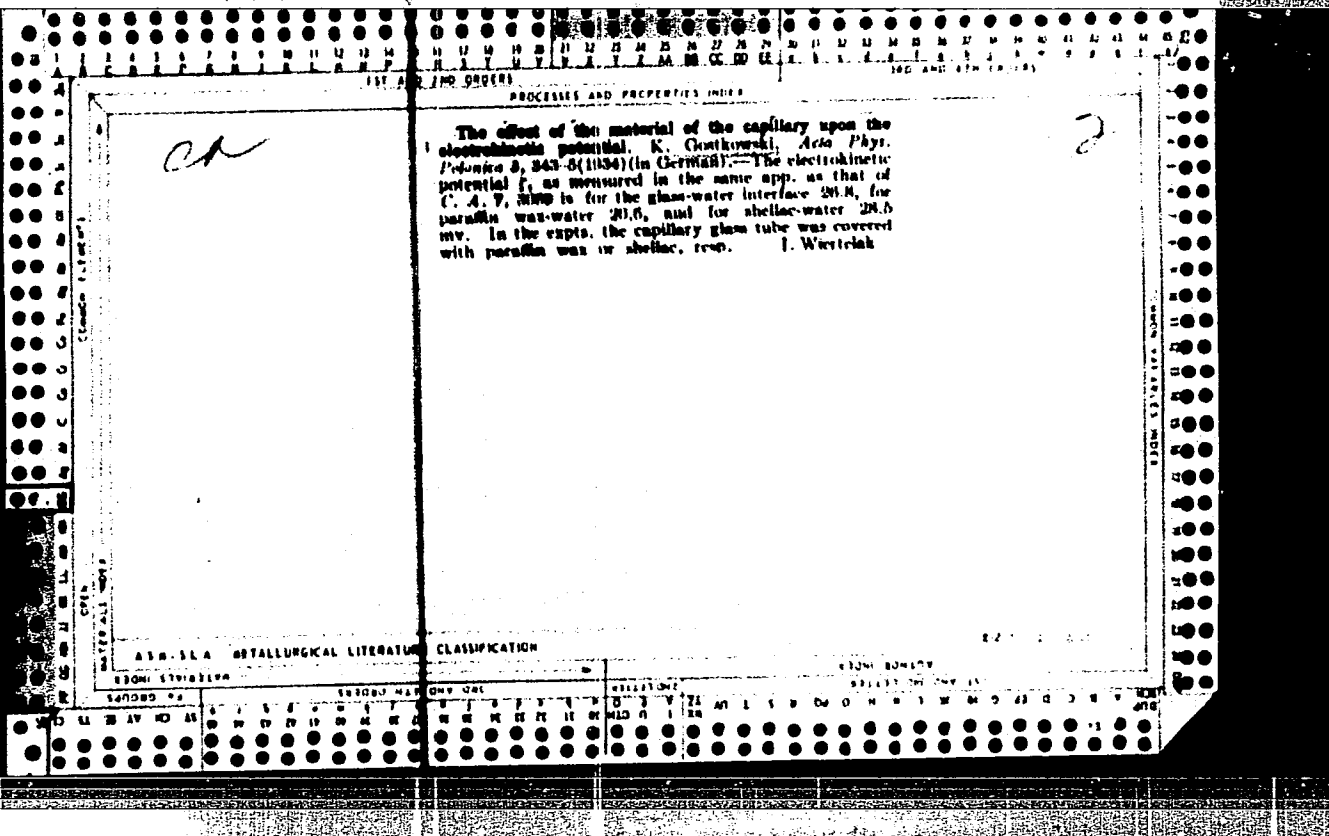
pp

is attempted to determine the limiting equivalent conductivity, λ_{∞} , Gamskrombi. *Acta Phys. Polonica 3, 215-18 (1953)* (in German).—With the aid of the simple relation between the electrokinetic potential V and the equiv. cond. λ_{∞} , viz: $\lambda_{\infty}/\lambda_{\infty}^0 = KV^2/V'$ (cf. *C. A.* 29, 4887) and from known data for KCl and HCl the limiting equiv. cond. for HCl is calcd. to be 444. If $Pb(NO_3)_2$ is taken instead of KCl, the value λ_{∞} HCl is 446, while for λ_{∞} NaOH (204.5) it equals 409. In fact the value 204.5 for NaOH seems to be too small, since the sum of both Na and OH mobilities equals 218. The new value calcd. from the above formula is 222, which gives 444 again for HCl. The product $\lambda_{\infty} V'$ is a const. of the app. (in the present expts. 408). 1 Wierzbicki

A.S.B.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

GROUP NO. 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

117117 Qm Qm 111



PROCESSING AND PROPERTIES INDEX

A-1

**Influence of capillary tube materials on electrochromatic potential. K. Gammowski (Acta phys. polon., 8, 243-245; Chem. Abstr., 1950, 1, 1824).--
The electrochromatic potential for a paraffin surface is < for shellac but > for glass. J. N. A.**

A.S.M. I.S.A. METALLURGICAL LITERATURE CLASSIFICATION

A.S.M. I.S.A. METALLURGICAL LITERATURE CLASSIFICATION

A.S.M. I.S.A. METALLURGICAL LITERATURE CLASSIFICATION

CA

Determination of porosity Kazimierz Goskowska.
(Patent 10. 484-5(1931).—G. describes the construction

and use of a comparatively simple app. for detn. of the porosity of porous materials based on displacement method. It is claimed that good accuracy and reproducibility can be obtained while the time required for a single detn. does not exceed 30 min. Adam J. Pikor

GOSTAWSKI, PAZIMIERZ

Relation between electrostatic potential and equivalent

each other behaved like electrostatic gas molecules. The apparatus consisted of a capillary tube and a pair of parallel plates. The capillary tube was heated and connected to a pair of quadrants of an electrometer.

still further they were drawn equally from all sides. In fact, the walls of the capillary tube were drawn equally from all sides.

GOSTKOWSKI, KAZIMIERZ

4

Relation between coagulation and mobility of coagulant ions. Kazimierz Gostkowski (Politech., Silesia, Poland). *Polish J. Chem. Phys. Chem. No. 3, 61-8 (1954); cf. preceding abstr.*—G. found a rule that with higher mobility of an ion of the same valency higher coagulation ability was found. The relation between the electrokinetic potential and the equiv. cond. (at its limit) of electrolytes (*loc. cit.*) was used to explain the coagulation phenomena. G. thought that in all instances where a double layer existed, the mobility of the ion had a definite effect on the given phenomena. The above rule by G. could, perhaps, be applied to such phenomena like internal friction, solv., the rate of spon., surface tension, adsorption ability of ions, etc. Thus, the coagulation of albumin required less K^+ than Na^+ because the mobility of K^+ was 64.6 and of Na^+ 43.5. In a similar manner coagulation of hemoglobin required less K^+ than NH_4^+ because the mobility of the former was 64.6 and the latter 61.0. The salting-out ability of globulin with anions decreased in the following order: Br^- , NO_3^- , and ClO_4^- (provided that the cation was the same, e.g. Na^+) because the mobility of the anions decreased in the following order: 67.6, 61.7, and 55.9. The coagulation of colloidal S required less univalent electrolytes like KCl, RbCl, and CsCl than bivalent ones like $Ca(NO_3)_2$ and $Ni(NO_3)_2$ (the mobility of Ca^{++} was 46 and of Ni^{++} 44); this was contrary to the rule of Schultz and Hardy which stated that the coagulation ability of an ion depended on its hydration and hence it had to be supplemented by the above rule of G.

~~KAZIMIERZ~~ GOSTKOWSKI, K.

B-14

POLAND/Chemistry of Colloids - Dispersed Systems.

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18779

Author : Kazimierz Gostkowski.

Inst : Silesian Polytechnical Institute.

Title : Connection Between Coagulation and Mobility of Coagulation Ions.

Orig Pub : Zesz. nauk. Politechn. Slaskiej, 1955, No 3, Chemia No 1, 51-56.

Abstract : Basing on the research carried out earlier, which had resulted in the establishment of the dependence between the electro-kynetic potential and the limiting equilibrium conductivity, the author expressed the surmise that the coagulating ability of an ion was connected with its mobility. Indeed, it follows from the shown tables that in 49 cases out of 54, the increase in the ion mobility is accompanied by an increase of their coagulation ability. The author proposed a supplement to

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POLAND/Chemistry of Colloids - Dispersed Systems

B-14

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18779

the rule of Schulze-Cardi: "The coagulation ability of ions of the same valency depends also on their mobility".

In the opinion of the author, such a dependence exists between the capacity of an ion of being adsorbed and its mobility.

Card 2/2

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GOSTKOWSKI, Z

"Burning coal economically." p. 103 (Wiadomosci Gornicze, Vol. 4, No. 4, Apr. 1953,
Katowice)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.
1954, Uncl.

GOSTKOWSKI, Z.

"Shocks Caused by Electricity" p. 212 (Wianomosci Gornicza, Vol. 4, No. 7/8
July/Aug., 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
February, 1954, Uncl.

GOSTL, B.; KOPRČIĆ, P.

The present possibilities of rehabilitation of mental patients.
Neuropsihijatrija 10 no 1/2:1-11 '62.

1. Iz Bolnice za zivcane i dusevne bolesti i u Vrapcu (Ravnatelj:
Prim. dr Josip Glaser).

(MENTAL DISORDERS) (REHABILITATION)

S

GOSTOF, K., MUDr.; HOMOLKA, J., MUDr.

Significance of half-times as tests of renal function. Cesk.
pediat. 11 no.10:744-752 Oct 56.

1. I. detska klinika KU, predn. prof. Dr. J. Svejcar, Biochem.
laborator DFN, predn. doc. Dr. J. Homolka.
(KIDNEY FUNCTION TESTS, in infant and child
inulin & PAH half-times, significance (Cz))

Gostof, R.

MYDLIL, V., ~~GOSTOF, R.~~

Certain aspects in the microsedimentation in newborn and premature.
Pediat. listy 5:3, May-June 50. p. 171-2

1. Of the First Children's Clinic of Prof. Svejcar in Prague.

CLM 19, 5, Nov., 1950

GOSTOF, R;HOMOLKA, J;ZBLEENKA, J.

Felentan substances in breast milk and their paradox effect
on prothrombin. Pediat. listy 5 no.4:225-227 July-Aug. 1950.
(CML 20:1)

1. Of the First Clinic of Prof. Svejcar in Prague.

GOSTOF, R.

[Study on the incidence of premature babies] Prehled poctu nedonosenych deti a vysledky jejich osetrovani. Cesk.gyn. 15 no.1-2:138-142 '50.
(GLML 19:1)

1. Of the Pediatric Clinic of Charles University, Prague.

GOSTOF, R.

Perinatal mortality of prematures. Cesk.gyn. 15 no.12:842-854 1950.
(CJML 20:6)

1. First Children's Clinic (Head--Prof.J.Svejcar,M.D.), Prague.

GOSTOF, R.; HOMOLKA, J.

Fat balance in prematures. *Pediat. listy.* 6 no.1:29-32 Jan-Feb 51.
(CML 20:7)

1. Of the First Children's Clinic of Prof. Svejcar in Prague.

HOMOLKA, J.; GOSTOF, R.

Chemical changes of fat in browned flour and its significance in infant feeding. *Pediat. listy* 6 no.1:32-34 Jan-Feb 51. (CML 20:7)

1. Of the First Children's Clinic of Prof. Svejcar in Prague.

GOSTOV, R.; FRIC, B.; KRUPICKOVA, J.;

Two years of milk banks in Prague. *Pediat. listy* 6 no.2:118-120
Mar-Apr 1951. (CLML 20:9)

1. Of the First Children's Clinic of Charles University and of
the Health Referat of UNV.

GOSTOF, R.; HOMOLKA, J.

Significance of fetal hemoglobin. *Pediat. listy, Praha* 7 no. 3:147-150 May-June 1952. (CML 22:4)

1. Assistants at the First Pediatric Clinic (Head--Prof. J. Svejcar, M. D.) of Charles University, Prague.

GOSTOF, R.;RIMAN, J.

Time factor in biotin metabolism in various diseases with special reference to liver diseases. *Pediat. listy, Praha* 7 no. 4:204-206 July-Aug 1952. (CML 23:1)

1. Of the Pediatric Clinic (Head--Prof. J. Svejcar, M. D.) of Charles University, Prague.

GOSTOF, R. MUDr; RASKA, B. MUDr; SVAHENSKA, J. MUDr

Survey on kidney diseases in the years 1946-1952 at the I pediatric clinic. *Pediat. listy*, Praha 9 no.5:271-276 Sept-Oct 54.

1. Z I detske kliniky v Praze, prednosta prof. Dr. Josef Svejcar
(KIDNEYS, diseases
in inf. & child. in Czech. statist.)

GOSTOF, R.

Poisoning with salicylic acid after cutaneous application
R. Gostof, M. ...
93 173 (4 1964) ...
sis after having been treated with a 10% salicylic acid
ointment extracutaneously. The condition was successfully
treated by doses of NaHCO_3 . At the first day of the poison-
ing, the Cl in the blood rose to 10 mg. Cl had completely
disappeared on the fifth day. The alkali reserve showed a
decrease of 13 vol.-% CO_2 . The pH of the blood dropped
quite noticeably, and the pH of the urine was 5.0. The
was suppressed. After 5 days the child was improved, and
could be discharged on the 11th day. — Werner Jacobson

GOSTOF, R., Dr.

Evaluation of the results of surgical treatment of chronic glomerulo-
nephritis. Cas. lek. cesk. 93 no.48:1331-1332 26 Nov 54.

1. I. detska klinika
(GLOMERULONEPHRITIS, surgery
results evaluation)

GOSTOF, R., MUDr.; SVEJCAROVA, M., MUDr.

ACTH administration to children. Cesk. pediat. 11 no.8:
628-629 Aug 56.

1. Z I. detske klin. KU, predn. prof. MUDr. J. Svejcar.
(ACTH, admin.
in child (Oz))

GOSTOP, K.

GOSTOP, R., MUDr.; LACKOVA, E., MUDr..

Pubertal cachexia without anorexia in 13 year old boy. Cesk. pediat. 12 no.5-6:545-549 May-June 57.

1. Detska klinika prof. Svejcara.

(CACHEXIA, case reports

pubertal, without anorexia in 13 year old boy (Cs))

(PUBERTY

cachexia without anorexia in 13 year old boy (Cs))

VYSOKA-BURIANOVA, B.; BURIAN, V.; FIASAROVA, M.; GOSTOFF, R.; JANICEK, B.;
MAZEL, J.; SKALICKOVA, J.; ZIMOLA, J.; technicka spoluprace F. Padour

Dynamics of trans-placental transfer of antibodies against
pertussis and parapertussis. Cesk. epidem. mikrob. imun. 9 no.4:
223-228 Je '60.

1. Katedra epidemiologie lekarske fakulty hygienicke KU v Praze,
krajske ustavy narodniho zdravi a krajske hygienicko-epidemiologicke
stanice v Liberci, Usti n. L., Jihlave a Olomouci.
(WHOOPING COUGH immunol.)
(PLACENTA physiol.)
(ANTIBODIES)

KOLACZEK, B.; GOSTOF, R.

Congenital tuberculosis and pneumocytic infection. Cesk. pediat.
20 no.7:629-633 J1 '65.

1. Detske oddeleni (vedouci doc. dr. R. Gostof, CSc.) a patologickeanatomicke oddeleni (vedouci J. Pur, prom. lekar) Obvodniho ustavu narodniho zdravi v Liberci.

GOSTOF, R.; BORC, K.

Nevoxantho-endothelioma in a child followed from birth to 6 years. *Cesk. pediat.* 20 no.9:809-811 S '65.

1. Detske oddeleni (vedouci doc. dr. R. Gostof, CSc.) a kozni oddeleni (vedouci MUDr. K. Borc) Obvodniho ustavu narodniho zdravi v Liberci.

GOSTOF, R.; STOVICEK, Z.; PUR, J.; BERAN, J.

Neurofibromatosis in 5 children. Cesk. pediat. 20 no.11:970-976
N '65.

1. Detske oddeleni (vedouci doc. dr. R. Gostof, CSc.), patolo-
gickoanatomicke oddeleni (vedouci MUDr. J. Pur) a rentgenolo-
gicke oddeleni (vedouci MUDr. J. Vyskocil) nemocnice v Liberci.

GOSTOF, R., (Praha 6, Nad Sarkou 58); PUR, J.; JANDOVA, L.

Nephronophthisis. Cas. lek. Cesk. 104 no.44:1199-1206 5 N '65.

1. Detske oddeleni Obvodniho ustavu narodniho zdravi v Liberci (vedouci doc. dr. R. Gostof, CSc.) a Patologickoanatomicke oddeleni Obvodniho ustavu narodniho zdravi v Liberci (vedouci J. Pur, prom. lekar). Submitted September 1964.

Congenital Defects and Diseases

CZECHOSLOVAKIA

UDC 616.007.1(:576.356.4)-053.3

GOSTOF, R.; KUCEROVA, M.; DANECKOVA, I.; RUMLOVA, E.; Pediatric Department, Hospital (Detske Oddeleni Nemocnice) Prague 8 - Bulovka, Head (Vedouci) Docent Dr R. GOSTOF; Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences (Ustav Experimentalni Biologie a Genetiky CSAV), Prague, Director (Reditel) Docent Dr M. HASEK; Department of Pediatric Surgery, Hospital (Oddeleni Detske Chirurgie Nemocnice), Prague 8 - Bulovka, Head (Vedouci) Dr F. FOJTIK.

"Mosaicism 46/47 with Trisomia 17-18."

Prague, Casopis Lekarů Ceskych, Vol 105, No 44, 4 Nov 66, pp 1205 - 1208

Abstract /Authors' English summary modified 7: A case of a 5 day old old girl with 46/47 mosaic and 17-18 trisomia is described. Apart from anomalies and signs observed in the past in cases of trisomia 17-18, the patient suffered also from stenosis of the esophagus and cardia, hiatus hernia, duplicate of the gastric wall with an orifice of an accessory pancreatic tail, and pylorostenosis. The absence of some cardiac changes in the syndrome indicates a case of mosaic and latent trisomia 17-18. 4 Figures, 3 Tables, 16 Western references. (Manuscript rec. Mar 66).

~~OSTOMSKIY YU~~

USSR APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516420005-8
 Chemical Technology, Chemical Products and Their Application I-27

Wood chemistry products. Cellulose and its manufacture. Paper.

Abs Jour; Referat Zhur - Khimiya, No 9, 1957, 32652

Author : Kyurshner K., Gostomskiy Yu.

Title : Double Bonds of Native Lignins

Orig Pub: Zh. prikl. khimii, 1956, 29, No 10, 1529, 1540

Abstract: It is shown by addition of bromine to wood in vacuum, that undamaged native lignin must contain aliphatic double bonds. Since on bromination there are possible not only reactions of additions also substitution reactions, the bromination procedure is affected by the selection of the solvent for bromine. By determining the

Card 1/2

USSR /Chemical Technology. Chemical Products
and Their Application

I-27

Wood chemistry products. Cellulose and its
manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32652

amount of absorbed bromine the iodine value is
calculated. It corresponds to the total amount
of halogen which was added or substituted by
100 g of wood. For a quantitative determination
of lignin use is made of the formula: lignin
(in %) - iodine value ψ . The determined values
of ψ are given for individual groups of woody
plants. For an experimental verification of ψ
the authors made use of the gravimetric method
of lignin determination according to Komarov.

Card 2/2

BRAGINSKIY, L.I.; GOSTOV, V.I., retsentsent; ZHURAVLEV, A.N., kandidat
tekhnikeskikh nauk, redaktor; TIKHONOV, A.Ya., tekhnicheskii
redaktor.

[Operational statistical quality control in machine construction
by the individual values method] Operativnyi statisticheskii
kontrol' kachestva v mashinostroenii; po metodu individual'nykh
znachenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1951. 159 p. (MIRA 8:3)
(Machinery industry--Quality control)

BOŠKOVIĆ, N.

"Fragments about the Great Mermoz, One of the Pioneers of Air Transportation"
p. 5

"Airplane Disaster; an Excerpt from the Book The Blue RAF by Alfred Max" p.6

"Who Was the First Serbian Pilot?" p.8

(AERO SVET, Vol. 2, no. 21, September 1952, Beograd, Yugoslavia)

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

GOSTOVIC, N.

"A Victory by Pilot Jaksevic" p. 2
(AERO SVET, Vol. 2, no. 25, October, 1952, Beograd, Yugoslavia)

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

GOSTOVIC, N.

"A Very Simple Life and a Bit of History; from the Account of an Old Mechanic"
p. 5

"From behind the Iron Curtain" p. 5

"Fighter Escorts" p. 6

(AERO SVET, Vol. 2, no. 27, Nov. 1952, Beograd, Yugoslavia)

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

GOSTOVIC, H.

"Defeat and Victories" p. 5

"Flying Saucers in Poland" p. 5

"In the Hell of Guadalcanal; an Excerpt from the Book The Blue RAF by Alfred Max" p. 6

(AERO SVET, Vol. 2, no. 29, Dec. 1952, Beograd, Yugoslavia)

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

GONJOWIC, H.

"Following Glorious Paths; a Talk with Radoje Djubacic, National Hero" p. 5

"One Night in France; an Excerpt from the Book The Great Circus by Pierre Klostermann" p. 6

(ANRS SVET, Vol. 2, no. 30, Dec. 1952, Beograd, Yugoslavia)

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

SEMICVIC, H.

"Death on a Rampart; Eduard Musljan, Our First Aeronautic Casualty" p. 8
(AERO SVET, Vol. 3, no. 32, Jan. 1953, Beograd, Yugoslavia)

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

GOSTOVIC, N.

"Mihajlo Mercep, our first plane builder." p. 5.

"Up and down Hungary." p. 5. (Aero Svet. Vol. 3, no. 33, 1953. Feb. Beograd.)

"Clouds, snow, and Focke-Wulfs." p. 6.

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.
Uncl.

OSLOVIO, N.
"Between the sky and the earth; a report on the first sport parachutist." p. 5.
"Great exploit; a report on the bombardment of Floesti by William D. Banks." p. 6.
(Aero Svet. Vol. 3, no. 35, Mar. 1953. Beograd.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.
Uncl.

GOSTOVIC, N.

"Three years ago grass was growing here; a visit to ~~the~~ newest plant." p. 5. (Aero Svet.
Vol. 3, no. 41, June 1953. Beograd.)

"Colonel Figeot; an excerpt from the book Celestial Fires by Pierre Klostermann." p. 6.

"What is the value of decreasing the weight of airplanes?" p. 7.

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.
Uncl.

GOSTOVIC, N.

"Unfinished report"; an account on Cvetka Klancnik, gliding instructor and holder of the national record. (p. 5) Vo. 3, no. 44, Aug. 1953

SO: East European Accessions List, Vol 3, no 8, Aug 1954

ROZHKOV, V.M.; GOSTREM, R.V.

Pulse voltmeter with increased accuracy. Izv. SO AN SSSR no.10:
115-117 '63. (MIRA 17:11)

1. Institut radiofiziki i elektroniki Sibirskogo otdeleniya AN
SSSR, Novosibirsk.

GOSTREM, Runar Viktorovich; ZINOV'YEV, Gennadiy Stepanovich;
SNITSARENKO, A.A., red.

[Tunnel diodes and their applications] Tunnel'nye diody
i ikh primeneniye. Novosibirsk, Red.-izd. otdel Sibir-
skogo otd-niia AN SSSR, 1964. 130 p. (MIRA 18:1)

GOSTRYI

KISELEV, A. (Zaporosh'ye); ABRAMOV, P. (Zaporosh'ye); BAYEV, G. (Zaporosh'ye);
AGARKOV, V. (Zaporosh'ye); ~~GOSTRYI, I.~~ (Zaporosh'ye); MAYBORODA, I.
(Zaporosh'ye); HUBANIK, I. (Zaporosh'ye); SMERDOV, A. (Zaporosh'ye);
KHLIVENKO, V. (Zaporosh'ye); DOLGONOVSKIY, N. (Zaporosh'ye).

We support the patriotic initiative of the Muscovites; a letter from
active members of mass defense work in Zaporosh'ye. Voen.znan.32
no.12:17 D '56. (MLRA 10:2)

1. Predsedatel' Dneprovskogo alyuminiyevogo zavodskogo komiteta Dobrovol'nogo obshchestva soдействия armii, aviatsii i flotu (for Kiselev). 2. Chlen komiteta (for Abramov, Bayev). 3. Obshchestvennyye instruktory (for Agarkov, Gostryy, Mayboroda, Hubanik). 4. Aktivisty obronno-massovoy raboty (for Smerdov, Khlivenko). 5. Sekretar' Dneprovskogo zavodskogo komiteta Leninskogo kommunisticheskogo soyuza molodezhi Ukrainy (for Dolgonovskiy).
(Military education)

POLAND/Microbiology - Microbes Pathogenic in Man and Animals.

F.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67317

Author : Zablotskiy, B., Kotolko, K., Gostitskiy, Ya.

Inst : Polish Academy of Sciences.

Title : Antigenous Fractions Isolated From Group A Streptococci and Their Serological Properties.

Orig Pub : Byul. Pol'skoy AN, 1956, Section 2, 4, No 5, 169-172.

Abstract : A dry mass of Group A streptococci was cleansed of fat (using a mixture of ether and alcohol), pulverized in distilled water, and centrifuged, at a temperature of 0° three fractions were precipitated out of the suprasedimentary liquid by adding ethanol: to a concentration of 41% with a pH of 5.5 (first fraction), to a concentration of 75% with an pH of 5.8 (second fraction), and to a concentration of 88% with a pH of 7.0 (third fraction).

Card 1/2

CA

Addition of hydrogen to 1,3-dienes with the aid of calcium-ammonia. B. A. Kazanskiĭ and I. V. Gostunskaya. *Doklady Akad. Nauk. S.S.S.R.* 71, 2958 (1957); cf. *C.A.* 52, 2009; 53, 6223. —1,3-Dienes add 2 H atoms at the moment of decompos. of $\text{Ca}(\text{NH}_3)_2$ (1), forming olefins. The reaction of isoprene (0.2 mol.) with 1 mol. 1 by the previously described technique yielded, after the usual purification, 70% $\text{Me}_2\text{C}=\text{CHMe}$ and about 8% $\text{Me}(\text{C}=\text{CH})_2$. No $\text{Me}_2\text{C}=\text{CHCH}=\text{CH}_2$ was detected. Similar reaction with $(\text{CH}_2=\text{CMe})_2$ gave 17-18% $(\text{CH}_2=\text{CMe})_2$ and 65-6% $\text{Me}_2\text{C}=\text{CHCH}_2\text{CMe}_2$. The results are derived from the n and d. detns. of the various fractions obtained. G. M. Kosolapoff

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B

Addition of hydrogen to an isolated double bond at the moment of formation. B. A. Kazanski and I. V. Gostunskaya. *Doklady Akad. Nauk S.S.S.R.* 76, 477-10(1951); cf. *C.A.* 44, 7749f.—While the addn. of H to a diene at the instant of formation (from $\text{Ca}(\text{NH}_2)_2$) appears to take place at only 1 double bond (i.e. addn. of 1 mole H) the products show lesser amounts than called for by such a formulation. This indicates possible partial addn. of 2 H. To check this, a 3-fold reduction of $(\text{CH}_3)_2\text{C}=\text{CHCH}=\text{CHMe}$, and of $\text{Me}_2\text{C}=\text{CH}-\text{CMe}=\text{CH}_2$, as well as of $\text{Me}_2\text{C}=\text{CHCH}=\text{CHMe}$, was conducted with an excess of $\text{Ca}(\text{NH}_2)_2$. In all instances, careful distn. of the products gave the completely hydrogenated product, $(\text{Me}_2\text{CHCH}_2)_2$. The other product of hydrogenation of the dienes is $(\text{Me}_2\text{CCH}_2)_2$. With a $\text{Ca}(\text{NH}_2)_2$ excess of 2.5-5 (molar ratio), up to 36.8% of the satd. product can be obtained after 3 passes. G. M. Kosolapoff

GOSTUNSKAYA, I. V.

✓ Catalytic hydrogenation of doubly unsaturated compounds with a conjugated system of double bonds. II. Hydrogenation of isoprene in the presence of platinum, palladium, and nickel. By A. Kazanski, I. V. Gostunskaya, and A. M. Zinov'eva. *Dokl. Akad. Nauk S.S.S.R.* (Engl. transl. *M. V. Lomonosovskiy, D.N. Pribl. i. Khim.*) *Izv. Akad. Nauk S.S.S.R. Otdel. Khim. Nauk* 1953, 670-7; *J. C.A.* 48, 6068b. Hydrogenation of isoprene over Ni, Pd, and Pt proceeds according to the 1,2-cis scheme proposed by Lebedev, et al. (cf. *J.A.* 19, 1401). In the presence of Pt, a lesser selectivity of hydrogenation is observed than with Ni or Pd. In no case do the hydrogenation curves show the true course of hydrogenation insofar as the curve shape is concerned. The products of hydrogenation were sep'd. in an efficient fractionation column and identified. After addn. of 1 mole H to isoprene over Pt black, the mixt. contains (in mole-%): Me₂CHCH=CH₂, 7.0, Me₂C=CHMe, 23.0, Me₂C=CHMe, 15.0, Me₂CHCH₂, 25.0, and isoprene 28.0. Over Pd black the products in the same order are (in mole-%): 25.0, 31.0, 41.0, 2, 3 (after complete reaction) over Raney Ni, 16, 42, 40, 2, 2. G. M. K.

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Catalytic hydrogenation of double bonds with conjugated system of double bonds. III. Hydrogenation of dimethyl-1,2-butadiene in the presence of platinum, nickel and palladium. I. L. Loev, and B. A. Kizyushki. *Russ. Chem. Rev.* 1955, 24(Enpl. translation). - See C.A. B. M. R.

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✓ Catalytic hydrogenation of doubly unsaturated compounds
 with conjugated system of double bonds. III. Hydro-
 genation of 2,3-dimethyl-1,1-butadiene in the presence of
 platinum, nickel and palladium. J. V. Gostunskaya, G. V.
 Loza, and G. A. Kazanski (M. V. Lomonosov State Univ.,
 Moscow). Izvest. Akad. Nauk S.S.S.R., Otdel. Khim.
 Nauk 1959, 863-8; cf. C.A. 49, 440d. — In the presence of
 Pt or Ni the hydrogenation of (CMe:CH₂) occurs along all
 possible paths. Kinetic curves of the hydrogenations are
 shown. Only 1 expt. with Pd black is recorded; the curve
 is very similar to that obtained with Ni. The reaction over
 Ni yields but 25% of the product of 1,4-addn., while iso-
 prene yields 40% of such an adduct. Over Pt, isoprene and
 (CMe:CH₂) give comparable dispersions of the possible
 products. G. M. Kosolapoff

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Diene formed in dehydration of 3,4-dimethyl-3,4-hexanediol. Gostunskaya, E. S., Kravanskaya, and N. A. Keran. *Dokl. Akad. Nauk SSSR*, 144: 53 (1956). *Zhur. Obshch. Khim.* 25, 1443-53 (1956). MeEtCO (0.1 mole) and 0.07 mole $HgCl_2$ in 60 ml. C_6H_6 were added gradually to 1 g.-at. Mg and after the reaction had commenced the mixt. was treated with 1.4 moles MeEtCO in 40 ml. C_6H_6 ; after spontaneous boiling for 1 hr. the mixt. was dil'd. with 120 ml. C_6H_6 and refluxed 2 hrs. Treatment with hot H_2O , sepn. of $Mg(OH)_2$, and extn. with C_6H_6 gave after distn. of the org. layer 30-32% 3,4-dimethyl-3,4-hexanediol, b_p 96-100°, m 46-7°. Pure product, b_p 119°. This (0.36 mole) and 3 drops 20% H_2SO_4 were heated gradually to 180° with distn. of H_2O and hydrocarbons; redista. yielded a range of products, b_p 111.3-152.7°. If the diol with 4 parts Ac_2O and a little H_3PO_4 was heated slowly to 160-70° there resulted an 86% yield of hydrocarbons, b_p 108.3-136.8°. Fractionation of all the collected hydrocarbons yielded 3 distinct substances (cf. Macallum and Whitby, *C.A.* 22, 2080): 3,4-dimethyl-2,4-hexadiene (I), b_p 114.6-14.8°, n_D^{20} 1.4410, d_4^{20} 0.7541; 2,3-diethyl-1,3-butadiene (II), b_p 126.3°, n_D^{20} 1.4610, d_4^{20} 0.7760; and 3-methyl-2-ethyl-1,3-pentadiene (III), b_p 130.3°, n_D^{20} 1.4760, d_4^{20} 0.7918. I forms a maleic anhydride adduct, b_p 148-60°, m 46-7°, which distd. with P_2O_5 gave 1,2,3,4-tetramethylbenzene. II yields a maleic anhydride adduct, m 59°, which distd. with P_2O_5 gave 1,2-Et₂C₆H₄. III gave a maleic anhydride adduct, m 104°, which heated with P_2O_5 gave 1,2-dimethyl-3-ethylbenzene. All 3 add 2 moles of H. III is formed in the greatest yields among the 3 dienes. G. M. Kosolapoff