

PELYUGIN, G. T.; GUTSULYAK, B. M.; GORICHOK, Ya. D.

Synthetic dyes. Part 38: Synthesis and transformations of  
1,2-diaryl lepidinium salts. Zhur. ob. Khim. 34 no.6:1992-1997  
Je '64. (MIRA 17:7)  
1. Chernovitskiy gosudarstvennyy universitet.

PILYUGIN, G.T.; GUTSULYAK, B.M.; GORICHOK, Ya.O.

Synthetic dyes. Part 39: Condensation of 1-aryl lepidinium salts with Michler ketone and auramine. Zhur. ob. khim. 34 no.7:2412-2416 J1 '64 (MIRA 17:8)

1. Chernovitskiy gosudarstvennyy universitet.

PILYUGIN, G.P.; BOJUN, Yu.S.; GORICHOK, Ya.O.; GORICHOK, P.I.

Synthetic dyes. Part 49: Structure and ultraviolet absorption spectra of lepidinium salts. Zhur. Obshch. Khim. 35 no. 1:506-509 (1961) (UDC 18:4)

1. Chernovitskiy gosudarstvennyy universitet i Institut organicheskoy khimii AN UkrSSR.

GORID'KO, I.V.

Effect of cobalt on the yield and quality of potato tubers.  
Fiziol. rast. 11 no. 4:922-926 S-D '67. (MIRA 17:10)

I. Orlovskiy pedagogicheskiy institut.

КОБЕЛ'КО, Л.В.

Effect of cobalt on the rate of photosynthesis in potato leaves.  
Fitiol. rast. 12 no.2:2946-2948 Mar-Apr '65. (MIRA 18:6)

1. Orlowskiy pedagogicheskiy institut.

32079

S/181/61/003/012/014/028

B104/B102

24.7400 (1055, 1454, 1555)

AUTHORS: Gorid'ko, N. Ya., Kuz'menko, P. P., and Novikov, N. N.

TITLE: Mechanical properties of germanium as a function of carrier concentration

PERIODICAL: Fizika tverdogo tela, v. 3, no. 12, 1961, 3650 - 3656

TEXT: The variation in microhardness of the surface layer of germanium with varying concentration of free carriers has been studied. The microhardness was measured with a ПМТ-3 (PMT-3) instrument at loads of 3 - 5 g. The indentations were measured with an immersion objective (2000x) in order to reduce the error in measurement. The carrier concentrations were changed by irradiating the germanium surface with light of varying intensity. 300-w motion-picture lamps circularly arranged at a distance of 10 cm from the specimen were used for the purpose. A maximum light intensity of 50,000 lux was reached. It was lowered by removing some reflectors and lamps. Fans prevented the specimens and lamps from heating. The carrier concentration was also changed by carrier injection from point

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B104/B102

Mechanical properties of ...

contacts. For this purpose, a plate with probes was attached to the PMT-3 instrument in such a way that the probes were regularly arranged around the point where the indenter penetrated into the specimen. Preliminary experiments have shown that at a stress of 3 - 5 g the indentations are entirely in the layer (1 - 2 $\mu$ ) where the photomechanical effect occurs. The experiments have indicated that the variation in hardness of the germanium specimen is due to the variation in carrier concentration (Fig. 2), no matter how the carriers are introduced into the semiconductor. The variation in hardness must therefore be related to a variation in dislocation density or mobility. It is concluded from the results that it is the dislocation mobility that varies. After irradiation with 40 - 50,000 lux for several hours, the properties of the surface layer passed over into a new state, in which the indentations were surrounded by bright and dark rings ("aureoles") which vanished after holding at room temperature or in boiling water for several hours. The aureoles are now being examined. V. N. Dobrovolskiy is thanked for discussions. There are 5 figures, 1 table, and 5 references: 1 Soviet and 4 non-Soviet. The three references to English-language publications read as follows: G. C. Kuczinski and

Card 2/ 3

35879

Mechanical properties of ...

S/181/61/003/012/014/028  
B104/B102

R. H. Hochman. Phys. Rev., 108, 946, 1957; J. Appl. Phys., 30, 267, 1959;  
W. T. Read. Phil. Mag., 42, 367, 1954.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko  
(Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: July 6, 1961

4

Card 3/4 3



11-22h

S/181/62/004/010/003/063  
B108/B186

AUTHORS: Kuz'menko, P. P., Novikov, N. N., and Gorid'ko, N. Ya.

TITLE: The photomechanical effect in antimony

PERIODICAL: Fizika tverdogo tela, v. 4, no. 10, 1962, 2656-2659

TEXT: Earlier studies (G. C. Kuczynski, R. H. Hochman. J. Appl. Phys., 30, 267, 1959) revealed a photomechanical effect (reduction in microhardness) in germanium in the range of intrinsic absorption (2 - 4 $\mu$ ). Attempts were made to find out whether this effect occurs in other materials with similar intrinsic absorption bands, e. g. in Sb or Bi. To study this effect in antimony, small specimens of high purity (99.999%)

were hardness-tested at an approximately constant temperature of 15-16 $^{\circ}$ C using a ПМТ-3 (PMT-3) device with a diamond pyramid. The microhardness was found to decrease linearly with the intensity of light in the visible and near infrared region used for illuminating the sample. This decrease, however, continues only to about 30,000 lux, and the microhardness which up to there has dropped by 45% remains constant at higher illuminances. Tests with filtered light showed that the

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The photomechanical effect in antimony

S/181/62/004/G10/003/063  
B108/B186

photomechanical effect is due only to infrared radiation, which proves some semiconducting property of antimony. The infrared light transfers electrons to higher energy levels thus changing the dislocation mobility and, consequently, also the mechanical properties of antimony. Careful examination of Cu revealed no photomechanical effect. There are 4 figures.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: April 23, 1962 (initially)  
June 12, 1962 (after revision)

Card 2/2

KUZ'MENKO, F.P.; NOVIKOV, N.N. [Novykov, M.M.]; GORID'KO, N.Ya.  
[Horyd'ko, M.IA.]

Photomechanical effect in titanium. Ukr. fiz. zhur. 8 no.1:  
116-120 Ja '63. (MIRA 16:5)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.  
(Titanium) (Metals, Effect of radiation on)

KUZ'MENKO, P.P.; NOVIKOV, N.N. [Novykov, M.M.]; GORID'KO, N.Ya.  
[Horid'ko, M.IA.]

The anomalous properties of antimony. Ukr. fiz. zhur. 8  
no.7:787-792 J1 '63. (MJRA 16:8)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.  
(Antimony—Thermal properties)  
(Antimony—Electric properties)

REF ID: A6 FMT(w)/WP(t)/WP(b) IJP(s) ASD(a) L-9 101 6 12 1984  
ACCESSION NR: AP4043864 S/O 19 64 007 0047 0011 001

AUTHOR: Novikov, N. N.; Gorid'ko, N. Ya.; Rudenko, A. G.

Photomechanical effect in cadmium sulfide.

SOURCE: IVUZ. Fizika, no. 4, 1964, 11-13

TOPIC TAGS: cadmium sulfide, microhardness, temperature dependence, frequency dependence, carrier density

ABSTRACT: Changes in plastic properties of cadmium sulfide (such as microhardness) under the influence of illumination were investigated to check whether this photomechanical effect is observed in materials having an absorption band in the visible region (germanium, antimony, titanium) is indeed due to the excitation of the carrier. For this purpose, also, a test method was described for a thin surface layer. The test equipment is also described. The tests show that the surface microhardness decreased

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ACCESSION NR: AP4043864

by approximately 40% when the surface receives an integral illumination on the order of 40,000 lux. This confirms the presence of the photomechanical effect in CdS. Tests of the frequency dependence of the effect have shown it to occur only in the region of intrinsic absorption. Orig. art. has: 3 figures.

ASSOCIATION: Kiyevskiy gosuniversitet imeni T. G. Shevchenko (Kiev State University)

REMITTED: 03Jan63

ENCL: 01

SUB CODE: SS, OP

NO REF SOV: 01

FORM: 102

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ACCESSION NR: AP4043864

INCLOSURE 01

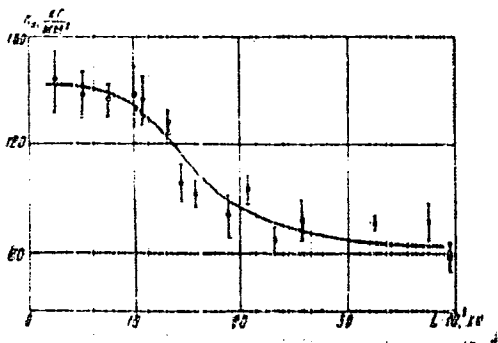


Fig. 1. The dependence of photomechanical effect on the illumination.

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1, 9049-00 ISS (1/ESJ, go/AS ip)-2/4776/1) (30) (FTT) (AFTT)  
ACCESSION NR: AP4044924 S/111/01/009/2580/2582

AUTHOR: Kuz'merko, P. P.; Nevikov, N. N.; Gorkhina, N.-M.

TITLE: The temperature range of the existence of the photomechanical effect

SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2580-2612

TOPIC TAGS: solid state physics, photomechanical effect, temperature range, hardness, germanium, antimony, extrinsic conductivity, dislocation

ABSTRACT: An attempt is made to determine the conditions under which the photomechanical effect occurs by means of investigating hardness as a function of the temperature of illuminated germanium and antimony. According to the authors, the photomechanical effect which they observed not only in semiconductors but also in metallic materials must be connected with changes in the electronic structure. They consider this firmly established by their own earlier experiments (FTT, 3, 1961; 3650; FTT, 4, 1962; 2656; UFZh, 8, 1963, 1) and by the work of other Soviet researchers (V. N. Baylin, Yu. Kh. Valdilo, FTT, 5, 1963; 2372; T. A. Kontorova, FTT, 4, 1962; 1328; M. S. Ahlova, A. R. Rogel', FTT, 4, 1962; 1053; V. V. Zhdanova, FTT, 5, 1963, 3341). In particular, they connect the phenomenon with a photon-

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L 9049-65

ACCESSION NR: AF404924

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induced rise in dislocation mobility, the mechanism of the process remaining still unexplained. In their last experiments, changes in the hardness of n-type germanium and of antimony samples were measured in a temperature range of -60 to 220C for Ge, and of 0 to 144C for Sb, under 30,000 lux illumination, and in the absence of light. The measurements showed that until a certain critical temperature is reached -- about 130 to 140C for Ge and 60C for Sb -- the hardness of the illuminated samples is independent of, or only slightly dependent of, the temperature, while in the same temperature range, the hardness of the unilluminated samples is temperature dependent. The previously insignificant dependence of the illuminated samples on temperature becomes noticeable only in the region where the two curves merge, that is, at reaching the critical temperature. The critical temperature is mainly a function of the temperature.

The results can be explained by assuming that the critical temperature is a function of the increase in the hardness of the unilluminated samples with increasing temperature. One of these causes acts as the only factor in the case of temperature changes as well as in the case of a change in the critical temperature at temperatures higher than 130-140C for Ge and 60C for Sb. The critical temperature is related to the origin of the dislocations, which may be a result of the passage from an unilluminated state to an illuminated state.

L 6045-45  
ACCESSION NR: AP4044924

which occurs at 100-110C in the case of germanium, that is, when a temperature dependence of the illuminated sample begins to show before the merging of the two curves. Orig. art. has: 3 figures.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiev State University)

SUBMITTED: 13Feb64

ATD PRESS: 6110

SUB CODE: AS

NO. 1

KUZ'MENKO, P.P.; NOVIKOV, N.N. [Novykov, M.M.]; GORID'KO, N.Ya.  
[Horid'ko, M.IA.]; SALEY, V.S.

Use of the infrared polariscopy method in studying photo-  
mechanical and electromechanical effects. Ukr. fiz. zhur. 10  
no. 11:1258-1259 N '65. (MIRA 18:12)

1. Kiyevskiy gosudarstvennyy universitet imeni Shevchenko.  
Submitted February 15, 1965.

L 24453-66 EWT(1)/EWT(m)/ENP(w)/T/ENP(t) IJP(c) JD/GS/AT

ACC NR: AT6010577 (N) SOURCE CODE: UR/0000/65/000/000/0095/0105

AUTHOR: Kuz'menko, P. P. (Doctor of physico-mathematical sciences); Novikov, N. N.;  
Gorid'ko, N. Ya.

ORG: Kiev State University im. T. G. Shevchenko (Kiyevskiy gosudarstvennyy universitet)

TITLE: The photomechanical effect in crystals and its physical nature

SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 96-105

TOPIC TAGS: photoeffect, semiconductor crystal, IR radiation, germanium, cadmium sulfide, antimony, titanium, hardness

ABSTRACT: The authors study the photomechanical effect (a reduction in the hardness of a material under illumination at room temperature) in *n*- and *p*-Ge, dislocationless *n*-Ge, CdS, antimony and titanium. The microhardness of the specimens was measured as a function of illumination intensity. The curves for *n*- and *p*-germanium and dislocationless germanium are all similar. The change in hardness for *p*-germanium is approximately 1/2 that for *n*-germanium. The surface hardness of *n*-

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L 24453-66

ACC NR: AT6010577

germanium decreases with an increase in illumination by approximately 57-60%, while that of p-germanium changes by 40%. The curves show saturation at approximately 20,000 lux. The softened layer extends to a depth of 1-2  $\mu$ . The photomechanical effect takes place only in the infrared region of the spectrum where the natural absorption region lies. The surface hardness of cadmium sulfide is reduced by approximately 40% with an increase in illumination intensity. Saturation begins at approximately 40,000 lux. The photomechanical effect in antimony reaches 45% with saturation at 30,000 lux. The depth of the softened layer is approximately 3  $\mu$ . Titanium shows an effect of 30% with saturation at 25,000 lux. The depth of the softened layer is 2.6  $\mu$ . The effect takes place in the infrared region of the spectrum in all specimens except cadmium sulfide. This is probably due to the fact that acceptor levels of dislocations in CdS lie rather deep with respect to the bottom of the conduction band, as distinct from germanium. A curve for microhardness in n-germanium as a function of current carrier concentration shows that an increase in current carriers reduces microhardness. It is suggested that a study should be made of the magnitude of the photomechanical effect as a function of light frequency. Orig. art. has: 8 figures.

SUB CODE: 20/ SUMM DATE: 23Jul64/ ORIG REF: 005/ OTH REF: 002

Card 2/2 dda

ACC NR: AP6018534

SOURCE CODE: UR/0181/66/008/008/1732/1738

AUTHOR: Kuz'menko, P. P.; Novikov, H. H.; Gorid'ko, N. Ya.; Fedorenko, L. I.

ORG: Kiev State University im. T. G. Shevchenko (Kiyevskiy gosudarstvenny universitet)

TITLE: Photomechanical effect in germanium doped with weakly soluble elements

SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1732-1738

TOPIC TAGS: germanium, hardening, photomechanical effect

ABSTRACT: The purpose of the investigation was to clarify the physical nature of the decrease in hardness of illuminated Ge, in view of the lack of information on the influence of impurities on this process and the lack of systematic research on the influence of impurities on the hardness of Ge, in general. Tests were made on samples containing small concentrations of Sb, In, and Ga, and also on Sb containing Ge as an impurity. The Ge host in all tests was standard single crystal with carrier density not higher than  $5 \times 10^{13} \text{ cm}^{-3}$ . The photochemical effect was measured with the PMT-3 instrument using a procedure described elsewhere (Izv. Vuzov. Fizika, No. 4, 22, 1964). In all cases it was found that the decrease in the hardness of the illuminated surface was strongly dependent on the amount of impurity. When the impurity concentration reached the solubility limit, the photomechanical effect decreased to zero. The character of the impurity had no influence, within the limits of errors, on either the characteristics of the photomechanical effect or the microhardness of the samples in darkness. It is therefore concluded that the governing factor in the

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ACC NR: AP6018534

properties of Ge is the quantity and not the type of impurity. In view of the complicated nature of the phenomenon, however, the authors caution that the results should be regarded only as preliminary. Orig. art. has: 8 figures and 2 tables.

SUB CODE: 20/    SUEM DATE: 01Nov65/    ORIG REF: 011/    OTH REF: 004

Card

2/2mlr

GORIKOV, N. G.

"Histogenesis of the Lining of the Walls of the Pulmonary Alveoli." Cand  
Med Sci, Rostov Medical Inst, Rostov-on-Don, 1954. (RZh.Biol, No 8, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (16).



*Ordinary, ml*

26-58-6-29/56

AUTHOR: Sorikov, N.G., Candidate of Medical Sciences

TITLE: Peculiarities of the Structure of the Dolphin's Bronchial Ramifications (Osobennosti stroeniya bronkhial'nykh vetvey del'fina)

PERIODICAL: Priroda, 1958, Nr 6, p 101-102 (USSR)

ABSTRACT: The author has been conducting extensive research work on the lungs and bronchi of dolphins. He found that the walls of their bronchi are provided with ring-shaped interceptors for contraction, which alternate with spheric bulges (widening). The narrow portions of the bronchi are controlled by powerful muscle bunches, while the bulges are fortified by cartilage plates. These devices enable dolphins to store air in their lungs and to resist water pressure as well as the possible penetration of water into their lungs. There is 1 figure.

ASSOCIATION: Rostovskiy meditsinskiy institut (Rostov Medical Institute)  
Card 1/1 1. Fishes-Physiology

GORIKOV, N.G. (Rostov-na-Donu, Nizhne-Bul'varnaya ul., d.83-b, kv.1)

\*Specialized human embryology<sup>11</sup> by P.J. Gerke. Reviewed by N.G. Gorikov. Arkh. anat. gist. i embr. 36 no.4:101-103 Ap '59.  
(EMBRYOLOGY, HUMAN) (MIRA 12:7)  
(GERKE, P.J.)

GORIKOVA, L. B.

GORIKOVA, L. B.--"Development of Therapeutic and Prophylactic Aid to Children in Rostov Oblast. "(Dissertation for Degree in Science and Engineering Defended at USSR Higher Educational Institutions. ) Rostov-on-Don State Medical Inst, Rostov-on-Don, 1955

SO: Knizhnaya Letopis', No 25, 18 Jun 55

\* For Degree of Candidate in Medical Sciences

GORIMOVA, L.B.

Quality of medical diagnoses made by the doctors of outpatient polyclinics of the pediatric hospitals of the city of Rostov-on-Don. Sbor. nauch. trud. Rost. gos. med. inst. no.22:109-113 '63. (MIRA 18:7)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny Rostovskogo gosudarstvennogo meditsinskogo instituta (zav. -- prof. A.S.Gromov).

GORIKOVA, L.B.; NIKOL'SKAYA, Yu.M.

Age- and sex-related characteristics of morbidity among children in  
the city of Rostov-on-Don. Sbor. nauch. trud. Rost. gos. med. inst.  
no.22:120-124 '63. (MIRA 18:7)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny  
Rostovskogo gosudarstvennogo meditsinskogo instituta (zav. - prof.  
A.S.Gromov).

BOYKOVA, A. I.

"Cancerous Conditions of the Stomach As Depicted in Roentgenological Images (Roentgenosurgical and Pathoanatomical Comparison)." Cand Med Sci, Lvov State Medical Inst, Lvov, 1954. (RZhBiol, No 4, Feb 55)

SO: Surv. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

GORILOVSKAYA, A. I., kandidat meditsinskikh nauk

Some peculiarities of the gastric mucosa in pernicious anemia [with  
summary in English]. Vest. rent. i rad. 32 no.2:48-50 Mr-Apr '57.  
(MIRA 10:8)

1. Iz kliniki gosital'noy terapii (zav. - prof. T.G.Glukhen'kiy;  
dir. kliniki \* kandidat meditsinskikh nauk P.S.Koren'kov) L'vovskogo  
meditsinskogo instituta

(STOMACH, in various diseases,  
anemia, pernicious, mucosal changes (Rus))

(ANEMIA, PERNICIOUS, physiology,  
stomach mucosa (Rus))

GORILOVSKAYA, A.I., kand.med.nauk; NESVETOV, N.G.

Effect of oxygen on the motor-evacuatory function of the  
gastrointestinal tract. Vrach.delo no.2:135-138 F '59.  
(MIRA 12:6)

1. Kafedra propedevtiki vnutrennikh bolezney (zav. - dots.  
M.G.Masik) Ternopol'skogo meditsinskogo instituta.  
(ALIMENTARY CANAL) (OXYGEN--PHYSIOLOGICAL EFFECT)



GORILOVSKAYA, A.I., kand.meditsinskikh nauk; CHAPLIY, O.V.

Method for the recognition of diffuse fibrous osteodystrophy. Vrach.  
delo no.8:102-103 Ag '60. (MIRA 13:9)

1. Vtoroye terapevticheskoye otdeleniye L'vovskoy oblastnoy kliniche-  
skoy bol'nitsy.

(OSTEITIS FIBROSA)

ГОРЛЮКОВА, А.И., канд. мед. наук; Горюкова, А.И.

Multiple chondromatosis of the bones in a twin. (ortop., travm. i protez. no.9:84-86 '62. (MIRA 17:11)

1. Iz otdeleniya ortopedii, travmatologii i detskoy khirurgii (zav. - prof. I.I. Saychenko) i rentgenologicheskogo otdeleniya (zav. - dotsent Ya. A. Krihtel'skaya) Lvovskoy oblastiynoy bol'nitsy (glavnyy vrach - N.I. Besedin).

GNATYSHAK, A. I.; GORILOVSKAYA, A. I.

"Irradiation and surgical treatment of cancer of the bladder."

Radiology Congress, Karlovy Vary, Czechoslovakia, 10-14 June 63

GORILOVSKIY, L.M.

Rupture of abdominal extrauterine pregnancy in acute cholecystitis.  
Khirurgiya, Moskva 34 no.11:104 N 158. (MIRA 12:1)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. N.N. Khoroshmanenko) 1-y  
gorodskoy bol'nitsy Ust'-Kamenogorska (glavnyy vrach N.I. Orlova).

(CHOLECYSTITIS, in progn.

acuto, with rupt. of abdom. ectopic pregn. (Rus))

(PREGNANCY, compl.

abdom. rupt. with acute cholecystitis (Rus))

GORILOVSKIY, L.M. . .

Combined perforated gastric ulcer and perforated ulcer of the esophagus. *Khirurgia* 35 no.7:126-127 J1 '59. (MIRA 12:12)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - N.N. Khoroshmanenko)  
1-y Gorodskoy bol'nitsy (glavnyy vrach N.I. Orlova) Ust'-Kamenogorska.  
(PEPTIC ULCER, complications)  
(ESOPHAGUS, diseases)

GORILOVSKIY, J.M.

Leukoplakia of the upper urinary tract. Urologiya. no.5:30-  
34 '64. (MIRA 18:8)

1. Urologicheskoye otdeleniye (zav. - kand. med. nauk A.A.Bukhman)  
52-y Gorodskoy klinicheskoy bol'nitsy Moskvy.

GORILOVSKIY, L.M.

Epispadias in men. Urologia. 29 no.3:11-13 My-Je '64.

(MIRA 18:10)

1. Urologicheskaya klinika (zav.- doktor med. nauk I.P. Pogorelko)

TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

*GORILOVSKIY, M.I.*

IGNAT'YEV, A.F.; GORILOVSKIY, M.I.; KOZIN, V.A., otvetstvennyy red.

[Automatic control, telemechanics and radio on the railroads of the U.S.S.R.] Avtomatika, telemekhanika i radio na zheleznykh dorogakh SSSR, Kiev, Ob-vo po rasprostraneniю polit. i nauchnykh znaniy USSR, 1957. 52 p. (MIRA 11:7)

(Railroads--Communication systems)

(Railroads--Electronic equipment)



32(3)

SOV/112-59-5-9086

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 97 (USSR)

AUTHOR: Litvinovskiy, G. O., and Gorilovskiy, M. I.

TITLE: Electrified Main-Line Railroads

PERIODICAL: Nauka i zhittya, 1957, Nr 12, pp 21-24 (Original in Ukranian)

ABSTRACT: There are 20,600 km of railroads in the Ukraine with a freight turn-over as high as 153 billion ton/km per year. Electrification of these railroads would tend to increase the freight turnover and to facilitate rural electrification. Technical advantages of electric traction and electric locomotives are indicated. It is expected that 30% of all Ukranian railroads will be electrified by 1970. Transportation data for the Ukraine is given.

L.G.P.

Card 1/1

LOGVINENKO, Ivan Petrovich [Lohvynenko, I.P.]; GORILOVSKIY, Mikhail  
Iosifovich [Horilovs'kyi, M.I.]; D'YAKONOV, V.K., red.;  
LISENKO, P.K. [Ipsenko, P.K.], red.

[Electrification of Ukrainian railroads] Elektryfikatsiia zaliznyts'  
Ukrainy. Kyiv, 1958. 35 p. (Tovarystvo dlia poshyrennia politych-  
nykh i naukovykh znan' Ukrain's'koi RSR. Ser. 4, no.1) [In Ukrainian]  
(MIRA 11:6)

(Ukraine--Railroads--Electrification)

LITVINOVSKIY, G.O. [Lytvynovs'kyi, G.O.]; Gorilovskiy, M.I. [Horylovs'kyi, M.I.], inzh.

Automation of railroad transportation. Nauka i zhyttia 9 no.12:  
21-24 D '59. (MIRA 13:4)

1. Glavnyy inzhener Kiyevskogo gosudarstvennogo instituta  
proyektirovaniya shelesnykh dorog "Kiydiprotrans" (for  
Litvinovskiy).

(Railroads)

(Automation)

GORILOVSKIY, M.I.

Ways to decrease the expenditure of electric cables. Avtom.,  
telem. i sviaz' 6 no.3:18-20 Mr '62. (MIRA 15:3)

1. Glavnyy inzh. proyekta Kiyevgiprotransa.  
(Electric railroads--Wires and wiring)

GORILOVSKIY, M.I.

Further decrease in the cost of reconstruction of communication systems in a.c. traction districts. Avtom., telem. i sviaz' 7 no.12:13-16 D '63. (MIRA 17:4)

1. Glavnyy inzh. proyekta Kiyevgiprotransa.

GORIN, A.

At the wall newspaper showcase. Zhil.-kom. khoz. 13 no.5:  
7 My '63. (MIRA 16:8)

1. Redaktor stennoy gazety domoupravleniya No.3 Poltava.  
(No subject headings)

GORIN, A.A. (Dnepropetrovsk)

Calculating girders with spiral axes. Stroi. mekh. i rasch.  
soor. 1 no.4:39-46 '59. (MIRA 12:10)  
(Girders)

GORIN, A.A. (Dnepropetrovsk)

Calculations for bars with a spatial broken axis. Stroi.mekh.1  
rasch.soor. 3 no.2:16-22 '61. (MIRA 14:5)  
(Structures, Theory, of)



CORIN, A.A., dotsent, kand.tekhn.nauk (Dnepropetrovsk)

Designing regular plane rod contours with a polygonal axis. Issl.  
po teor. sooruzh. no.10:238-252 '61. (MIRA 14:8)  
(Elastic rods and wires)

GORIN, A.I., kand. tekhn. nauk, doklady (Inzhenerovskiy)

Calculating continuous beams with a spiral axis. Issl. no. 1007.  
socrush. no. 148241-252 '65.

(MIRA 18:30)

GORIN, A.A.; GORIN, Ye. A.

Solvability of the Cauchy problem with finite initial data.  
Dif. urav. 1 no. 12:1640-1646 D '65. (MIRA 18:12)

1. Institut tochnoy mekhaniki i vychislitel'noy tekhniki AN  
SSSR i Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
Submitted Febr. 17, 1965.

GORIN, A.A.; OSMACHKIN, B.P.; GOLENOK, L.S., inzh. po avtomatizatsii;  
KOVÁLEV, G.I.; GOROB'TSOV, V.S.

Isotopes in the service of miners. Ugol' Ukr. 9 no.12:14-16  
D '65. (MIRA 19:1)

1. Ispolnyayushchiy obyazannosti direktora Donetskoy bazovoy izotopnoy laboratorii (for Gorin). 2. Nachal'nik uchastka izotopov Luganskogo montazhno-naladochnogo upravleniya (for Osmachkin). 3. Shakhtoupravleniye "Butovka" tresta Makeyevugol' (for Golenok). 4. Glavnyy inzh. laboratorii "Izotop" pri Luganskom montazhno-naladochnom upravlenii (for Gorob'tsov).

GORIN, A.G.

Chemical study of polysaccharides in the leaves of *Plantago*  
major L. Report No.1: Analysis of monosaccharide composition  
of the polysaccharide complex. *Khim. prirod. soed.* no.5:  
297-302 '65. (MIRA 18:12)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-  
farmatsevticheskiy institut. Submitted April 13, 1965.

GORIN, A.G.

Chemical study of polysaccharides in *Plantago maior* L. leaves.  
Report No. 2. Pectic acid. *Khim. prirod. soed.* no.6:369-372 '65.  
(MIRA 19:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut. Submitted June 9, 1965.

GORIN, A.I. inzh.

Preventing the creeping of mine excavations. Shakht.stroi.  
no.9:29-31 S '57. (MIRA 10:10)  
(China--Mining engineering)

GORIN, A. I. *Grand Med Sci* -- "Sanitary-hygienic measures <sup>✓n</sup> ~~for~~ controlling the spreading of dysentery in canalized and noncanalized microsections." Mos, 1961 (*Acad Med Sci* ~~USSR~~ USSR). (KL, 4-61, 208)



KOZLOV, Yu. P.; GORIN, A. I.

Effect of vinyl pyrrolidone on the biological functions of gamma-irradiated yeast cells. Radiobiologia 2 no.3:383-386 '62.  
(MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,  
biologo-pochvennyy fakul'tet.

(PYRROLIDINONE) (GAMMA RAYS—PHYSIOLOGICAL EFFECT)  
(YEAST)

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

AUTHOR: Kozlov, Yu.P., Gorin, A.I., and Barnetskiy, F.  
TITLE: Effect of some monomers on the biofunctions of irradiated yeast cells  
PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 539-542

TEXT: This study is the continuation of previous ones. Saccharomyces vini (strain Megri-139-B) were irradiated with a  $\gamma$ -Co<sup>60</sup>-400 (GTR-Co<sup>60</sup>-400) apparatus at a dose rate of 1250r/min. The total dose was 12.5-75cu. The survival rate after irradiation and treatment with monomers was determined by the number of colonies. The monomers were vinylpyrrolidone (VP) acrylonitrile (AN) and acrylamide (AA). The concentrations of the aqueous solutions of the monomers were 2%, 1% and 1% respectively, and had no effect on the divisions of the yeast cells, but they resulted in optimal concentrations for increasing the survival rate of the irradiated cells. A marked protective effect of these monomers against

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

Effect of some monomers....

irradiation was found when oxygen was present in the culture medium.  
The possible mechanism of this phenomenon is discussed. There are  
4 figures and 1 table.

SUBMITTED: October 7, 1961

✓

Card 2/2

ACCESSION NR: AP4041037

S/0120/64/000/003/0142/0145

AUTHOR: Babushkin, A. A.; Gorin, A. I.

TITLE: Auxiliaries to the IKS-14 spectrophotometer for investigating the spectra of very thin films

SOURCE: Pribory\* i tekhnika eksperimenta, no. 3, 1964, 142-145

TOPIC TAGS: spectrophotometer, IKS-14 spectrophotometer, infrared spectrum, photometric wedge

ABSTRACT: Auxiliary devices to the 2-beam IKS-14 spectrophotometer necessary for recording the infrared spectra of monomolecular films are briefly described. A multipass cell comprises two pairs of flat mirrors, each pair reflecting the beam 11 times; thus, the light passes the test film 22 times. The standard 4-tooth "comb" (photometric wedges) was replaced with a single wedge which increased the sensitivity to low optical densities fourfold. An experiment

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ACCESSION NR: AP4041037

corroborated the fact that the linear relation between the wedge travel and the transmission remained intact. A potentiometer bridge of 0.03% resolution was provided for extending the recorder scale. Records of  $\text{NH}_3$  and Ca stearate spectra illustrate the gain in sensitivity. Orig. art. has: 4 figures.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, AN SSSR)

SUBMITTED: 08Jul63

ENCL: 00

SUB CODE: GP

NO REF SOV: 000

OTHER: 003

Card: 2/2

KOZLOV, Yu.P.; GORIN, A.I.

Effect of the inhibitors of free-radical processes on irradiated yeast cells. Nauch. dokl. vys. shkoly; biol. nauki no. 2:91-93 '64. (MIRA 17:5)

1. Rekomendovana kafedroy biofiziki Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

BABUSHKIN, A.A. (Moskva); KRYLOVA, L.M. (Moskva); GORIN, A.I. (Moskva)

Interpretation of the infrared absorption spectra of formaldehyde  
in aqueous solution. Zhur. fiz. khim. 38 no.10:2361-2366 0 '64.  
(MIRA 18:2)

1. Institut fizicheskoy khimii AN SSSR.

L 31194-66 EWP(j)/EWT(m) RM  
ACC NR: AP6022568

SOURCE CODE: UR/0216/66/000/002/0197/0210  
53

AUTHOR: Tseytlin, P. I.; Spitkovskiy, D. I.; Gorin, A. I.; Ivannik, B. P.;  
Kulikova, L. G.; Luchkina, L. A.; Martynov, E. V.; Ryabchenko, N. I.; Usakovskaya, T. S.

ORG: Institute of Experimental Biology, AMN SSSR, Moscow (Institut eksperimental'noy biologii AMN SSSR)

TITLE: Analysis of radiation injury to deoxyribonucleoproteins at the molecular and supramolecular levels

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 2, 1966, 197-210

TOPIC TAGS: radiation injury, protein, DNA, x ray irradiation, hydrogen bonding, molecular structure

ABSTRACT: X-irradiation does not give rise to covalent crosslinks within the DNA macromolecule, i.e., it does not prevent the separation of DNA strands or interfere with its replication. The authors' studies on optic rotation of DNA and DNP and melting curves indicate that irradiation causes latent damage to the system of hydrogen bonds. The formation of single breaks in the polynucleotide skeleton may result in rotation around the remaining single bond at the site of the break. This may produce local change in the configuration of the DNA macromolecule, resulting in steric hindrance between the DNA and corresponding protein molecule.

Irradiation with doses below  $10^3$  rad causes breaks only in a small number of DNA molecules. This does not alter the physicochemical properties of the DNA or DNP as a whole, although it undoubtedly has some biological

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UDC: 577.391

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ACC NR: AP6022568

effect. Thus, there is no reason to believe that the effects of low irradiation doses, as manifested in structural rearrangements of chromosomes, are related to changes in the DNA macromolecules. The results of studies on the physicochemical properties of supramolecular oriented DNP structures present in a medium with physiological ionic strength indicate that these formations are highly sensitive to radiation. Orig. art. has: 10 figures. [JPRS]

SUB CODE: 07, 06, 20 / SUBM DATE: 18Dec65 / ORIG REF: 013 / OTH REF: 013

Card 2/2 (C)

COEN, AM  
GORIN, A.M.

Making spring rings. Mashinostroitel' no.6:38 Je '57. (MIRA 10:7)  
(Sheet-metal work)

GORIN, A.M.

Pneumatic walking conveyers used for moving flasks. Mashinostroitel'  
no.9:10-11 S '57. (MLRA 10:9)

(Conveying machinery)

117-58-6-7/36

AUTHOR: Gorin, A.M.

TITLE: A Conveyer With Hydraulic Drive (Konveyer s gidravlicheskim privodom)

PERIODICAL: Mashinostroitel', 1958, Nr 6, pp 14-15 (USSR)

ABSTRACT: In the Gor'kovskiy zavod frezernykh stankov (Gor'kiy Milling Machine Plant) a small car conveyer has been put into operation in the assembly of milling machines. The various parts needed for assembly are fastened on the cars which are moved by traction chains. The number of cars depends on the technological process and the number of parts needed. The conveyer is shown in figure 1. The hydraulic drive of the conveyer is represented in figure 2. Industrial oil type 20 is used in the drive, delivered by a pump with a productivity of 12 l/min. The pump is driven by an electromotor of 0.8 kw and 980 rpm. The speed of the conveyer is 30-40 mm/min. The hydraulic drive is used for assembly conveyers and washing machines.  
There are 2 figures

AVAILABLE: Library of Congress  
Card 1/1 1. Conveyors-Hydraulic drive

307/117-59-7-22/28

25(

AUTHORS: Gavriilyuk, A.M., and Gorin, A.M.

TITLE: Electrostatic Painting of Machine Parts

PERIODICAL: Mashinostroitel', 1959, Nr 7, pp 37-39 (USSR)

ABSTRACT: The article presents detailed engineering information on a special painting line for large-size machine parts, designed and used at the Gor'kovskiy zavod frezernykh stankov (Gor'kiy Milling Machine Plant). It is the first of its kind in the USSR. It consists of a painting and a drying chamber connected by an overhead suspension conveyer. In the painting chamber, the parts are moved between electrode gratings. The parts are under positive electric charge, and the paint sprayed by the six pneumatic sprayers at the output end of the chamber coats the parts with an even thin layer. To distribute the paint on the entire part, the parts are rotated at 6 rpm when they pass by the sprayers. The paint is fed from three pressure tanks with different colors of paint, and

Card 1/3

SOV/117-59-7-22/28

### Electrostatic Painting of Machine Parts

the sprayers work in pairs, one pair for each color. The resetting of the spraying system for different shapes, or for different color, requires a few minutes; the height and the incline angle of the spray nozzles is easily adjustable on the posts with an incline scale (Figure 2). The drying chamber contains 160 special drying lamps for heating the parts to 110 to 120°C, placed on 16 movable shields permitting displacements within a 45° angle. The work of the ventilation system, the kenotron (rectifier), the sprayers, and the presence and the voltage of an electric field in the chamber is monitored by signal lamps on the control board. There is a special control, on the same board, for preventing the occurrence of sparks in the painting chamber. The equipment is grounded, and the installation need not to be stopped for charging parts on the conveyer or any resettings. The access doors to the chambers automatically block high voltage when opened. The

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30V/117-59-7-22/28

Electrostatic Painting of Machine Parts

remaining electric charge is also automatically removed from the electrode gratings. The method is recommended for mass as well as small-lot and piece production of machines. It is mentioned that the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant) was the first in the USSR to employ the method of painting in an electrostatic field. The article includes the technical characteristics of the installation and two illustrations. There are 2 diagrams.

Card 3/3

GORIN, A.M., inzh.

New industrial equipment. Mashinostroitel' no.4:32-33  
Ap '60. (MIRA 13:6)  
(Gorkiy--Machine-tool industry--Technological innovations)



GORIN, A.M.

Mechanization of the assembly work at the Gorkiy Milling-  
Machine Plant. Mashinostroitel' no.6:12-13 Je '61.  
(MIRA 14:6)  
(Gorkiy--Machine-tool industry)

KLIMIN, L.A.; GORIN, A.P.

Automatic fuel-consumption meter. Avt.prom. 29 no.1:29-30  
Ja '63. (MIRA 16:1)

1. Ul'yanovskiy avtozavod.  
(Automobiles--Fuel consumption--Measurement)

GORIN, A. P.

Gorin, A. P. "Spontaneous hybrids of wheat and their significance", Doklady  
(Mosk. s.-kh. akad. im. Timiryazeva), Issue 3, 1949 (Lit. Index: 1949), p. 42-53

SO: U-411, 17 July 53, (Letopis' Zhurnal 'nykh Statey, No. 20, 1949).

GORIN, A.P., professor.

How hybrids are obtained. IUn.nat.no.1:30-31 Ap '56. (MIRA 9:9)  
(Hybridization, Vegetable)

USSR/Cultivated Plants. General Problems.

11

Abs Jour : Ref Zhur-Biol., No 15, 1956, 68059

Author : Gorin, A. P.  
Inst : Moscow Agricultural Academy imeni K. A. Timiryazeva.  
Title : Achievements of the Michurin Biological Science in Field Crop Selection.

Orig Pub : Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1956, No 24, 76-92

Abstract : No abstract.

Card : 1/1

2

GORIN, A.P.

[Manual of practical work in grain breeding and seed production]  
Rukovodstvo k prakticheskim zaniatiyam po selektsii i semenovodstvu  
zernovykh kul'tur. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957.  
260 p. (MIRA 11:5)

(Grain)

GORIN, A.P., prof., doktor sel'skokhozyaystvennykh nauk.; PRIYEZHEV, G.V.

Results obtained in the scientific work of the Lisitsyn Plant Breeding and Genetics Station of the Timiriazev Agricultural Academy [with summary in English]. Izv. TSEhA no.5:13-28 '58. (MIRA 11:11)

1. Direktor Seleksionno-geneticheskoy stantsii Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii im. K.A. Timiryazeva (for Priyeshhev).

(Plant breeding)

GORIN, A.P., doktor sel'skokhozyaystvennykh nauk, prof.

Effect of meteorological conditions on natural hybridization  
in spring wheat. Izv. TSKhA no.2:20-25 '61. (MIRA 14:8)  
(Wheat) (Hybridization, Vegetable)



GORIN, A.P., prof.; DUNIN, M.S.; KONOVALOV, Yu.B.; MITROFANOVA,  
K.S.; POLITOVA, I.D.; SAMSONOV, M.P.; SELAVRI, M.K.;  
UKOLOV, A.A.; YURTSEV, V.H.; GRACHEVA, V.S., red.;  
SOKOLOVA, N.S., Tekin, Fed.

[Manual on field work in the breeding and seed production  
of field crops] Rukovodstvo k prakticheskim zaniatiyam po  
selektсии i semenovodstvu polevykh kul'tur. [By] A.P.Gorin  
i dr. Moskva, Sel'khozizdat, 1963. 574 p.

(MIRA 16:12)

1. Kollektiv prepodavateley kafedry genetiki, selektсии i  
semenovodstva polevykh kul'tur Moskovskoy sel'skokhozyay-  
stvennoy akademii im. K.A.Timiryazeva (for Gorin, Konvalov,  
Mitrofanova, Samsonov, Selavri, Ukolov, Yurtsev). 2. Kafedra  
Fitopatologii Moskovskoy sel'skokhozyaystvennoy akademii im.  
K.A.Timiryazeva (for Dunin). 3. Kafedra statistiki Moskovskoy  
sel'skokhozyaystvennoy akademii im. K.A.Timiryazeva (for  
Politova).

(Field crops) (Seed production)

GORIN, A.P.; MITROPANOVA, K.S.

Successes of Soviet plant breeding. Biol. v shkole no.4:82-88  
Jl-Ag '63. (MIRA 16:9)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni  
K.A.Timiryazeva. (Plant breeding)

GORIN, A.P., prof., doktor sel'skokhoz. nauk

Michurin biology as the scientific foundation for the breeding of  
farm crops. Izv. TSKHA no.3:9-22 '64. (MIRA 17:11)

1. Kafedra genetiki, seleksii i semenovocstva polevykh kul'tur  
Moskovskoy sel'skokhozyaystvennoy akademii imeni Timiryazeva.

GORIN, A.P., prof. doktor sel'skokhoz. nauk; MOLCHAN, I.M., aspirant

Sexual differences in generative organs and the reaction of  
a plant to self-pollination. Izv. TSKHA no.6:102-116 '64  
(MIRA 1964)

1. Kafedra genetiki i seleksii rasteniy Moskovskoy ordena  
Lenina sel'skokhozyaystvennoy akademii imeni K.A.Timiryazeva.

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S/194/61/000/005/010/078  
D201/D303

12 2206

AUTHORS:

Gorin, A.V., Grosman, V.A., Drapchinskiy, L.V.,  
Rayevskiy, B.N., Romanov, L.P., Storozhenko, E.P.,  
Fedorov, Yu.P., Shavrin, G.M. and Shamov, V.P.

TITLE:

A mobile radiometric emergency laboratory using  
semiconductor devices

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 5, 1961, 31-32, abstract 5 A235 (Dokl. nauchn.  
konferentsii in-ta radiats. gigiyeny po itogam rab-  
oty za 1959, g., L., 1960, 18-19)

TEXT: A description is given of a complete mobile laboratory,  
mounted on the automobile YA3 -450 A (UAZ-450 A) and which is to be  
used for detecting radioactive isotope contamination of certain  
areas or of separate objects. The laboratory equipment consists  
of the following: 1) automatic recorder of the level of  $\gamma$ -back-  
ground from  $10$  to  $10^5$  microcurie/hr (ВРГ-ПРС-5)(IRG-PGS-5)); 2) 2

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S/194/61/J00/005/010/078  
D201/D303

A mobile radiometric emergency...

calculating machines ((ИРГ-ПП-100)(IRG-PP-100)); 3) supplies 200-2000 V; 4) head screening (thickness 40 mm) for counters CTC-5 (STS-5) in cassettes or for the end-counter; 5) rate counter ИРГ-ИП-1 (IRG-IP-1) with counting rate up to 10<sup>6</sup> pulses/min; 6) beta-gamma portable scintillating radiometer with ИРГ-ПР-2 (FEU-25) ИРГ-ПР-2 (IRG-PR-2). Power for the whole installation is supplied by the automobile battery. Power consumption ~ 15 watt. The laboratory personnel consists of three operators and driver. [Abstracter's note: Complete translation]

JK

Card 2/2

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,  
p 51 (USSR) 15-1957-12-17055

AUTHOR: Gorin, B. A.

TITLE: Formation of Brachyanticlinal Folds of the Apsheron-Kobystan Region (O mekhanizme formirovaniya brakhiantiklinal'nykh skladok Apsherono-Kobystanskoy oblasti)

PERIODICAL: Uch. zap. Azerb. un-ta, 1955, Nr 7, pp 31-35

ABSTRACT: Bibliographical entry

Card 1/1

3(5) *Geology, V. D.* PHASE I BOOK EXPLOITATION

SOV/2302

- Akademiya nauk Ukrainiskoy SSR. Institut geologii poleznykh iskopayemykh
- Problema migratsii nefti i formirovaniya neftyanykh i gazovykh skopleniy; materialy L'vovskoy diskussii 8-12 maya 1957 g. (Problem of Oil Migration and the Formation of Oil and Gas Accumulations; Materials of the Discussion Held in L'vov, May 8-12, 1957) Moscow, Gostoptekhizdat, 1959. 422 p. 1,100 copies printed.

Eds.: V. B. Porfir'yev, Academician of the Ukrainian SSR Academy of Sciences, and I. O. Brod, Professor; Exec. Ed.: P. R. Yershov; Tech. Ed.: A.S. Polosina; Editorial Board: I.O. Brod, Professor, N.R. Ladyzhenskiy, and V.B. Porfir'yev, Academician of the Ukrainian Academy of Sciences.

PURPOSE: This collection of articles is intended for a wide range of geologists and research workers interested in oil problems.

COVERAGE: Articles contained in this book deal with the problems of migration and accumulation of oil and gas. These problems were

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Problem of Oil Migration (Cont.)

SOV/2302

discussed in May 1957 at L'vov State University im. I. Franko at a meeting organized jointly by the Institute of Geology and Mineral Resources, Academy of Sciences of the USSR, the Department of Geology and Oil Exploration of the L'vov Polytechnic Institute, and the L'vov Geological Society. Theories on the origin of petroleum deposits and the conditions surrounding their occurrence are treated. There are 327 references: 232 Soviet, 86 English, 5 French, and 4 German.

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Problem of Oil Migration (Cont.)

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НАУКА И ТЕХНИКА ЛИТЕРАТУРА

SOV/2864

Gorin, Boris Nikolayevich and Kozlov, Gennadiyevich Lokshin

Tzmereniye ugla dielektricheskikh poter' pri nalichii vliyaniy  
(Measurement of Dielectric Loss Angle in the Presence of  
Influencing Effects) Moscow, Gosenergoizdat, 1959. 55 p.  
(Series: Iz opyta sovetskoy energetiki) 4,300 copies printed.

Ed.: I. Ya. Yakobson; Tech. Ed.: G. Ye. Larkonov.

PURPOSE: This booklet is intended for engineers and technicians employed in laboratories of electric power stations and substations.

COVERAGE: The authors discuss problems of measuring the dielectric loss-angle tangent in insulation in the presence of electric and magnetic fields. Methods of measuring the influence current and various methods of measuring  $\tan \delta$ , taking into account errors from the electric field, are discussed. Means of eliminating errors in the application of the method of phase adjustment and also formulas for reduced  $\tan \delta$  are presented.

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Measurement of Dielectric (Cont.)

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The problem of the effect of the magnetic field on the accuracy of  $\tan \delta$  measurements is discussed and methods of measurement in the presence of electric and magnetic fields are given. No personalities are mentioned. There are 5 references, all Soviet.

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