KOLODYAZHNYY, A.Ye., inzhener-kapitan 2-go ranga

Position finding by three different observations of the sun. Mor. sbor. 47 no.11:61-64 N '63. (MIRA 16:11)

SOV/68-59-3-15/23

AUTHORS: Kolodyazhnyy, I.V., and Vorob'yev, V.N.

TITLE: From the Experience of Operation of Pyridine Plant on the Moscow Coke Gas Works (Opyt rabotypiridinovoy ustanovki Moskovskogo koksogazovogo zavoda)

PERIODICAL: Koks i Khimiya, 1959, Nr 3, pp 55-57 (USSR)

ABSTRACT: Changes in the design of the neutraliser, namely a decrease in the space between the bubbler for steam-ammonia mixture and the bottom of the neutraliser and introduction of the feed of the mother liquor directly under the bubbler improved the operation of the neutraliser and the yield of pyridine bases from 4 kg to 13-14 kg/ton of ammonia sulphate. There is 1 figure.

ASSOCIATION: Moskovskiy koksogazovyy zavod (Moscow Coke Gas Works)

Card 1/1

SOV/68-59-5-13/25

AUTHORS: Kaplina, Ye.G., Kolodyazhnyy, I.V. and Nagornyy, G.K.

TITLE: Experience in the Operation of an Ammonia-Lime Plant with an External Reactor (Opyt raboty ammiachno-izvestkovogo otdeleniya s vynosnym reaktorom)

PERIODICAL: Koks i khimiya, 1959, Nr 5, pp 34-38 (USSR)

ABSTRACT: Difficulties encountered in operating the ammonia-lime plant with an external reactor and settling tank and their solution are described. The main difficulty was the precipitation of calcium sulphate in the second distillation column. To prevent this the temperature in the reactor and settling tank was increased (by 2-3 °C above the temperature in the column) by increasing the pressure under which they were operating. In addition the outlet of the mixture of liquor and lime from the reactor into the settling tank was made from the upper part of the reactor (Fig 4) which maintained a constant level of the mixture in the reactor and secured a

Card 1/2

Experience in the Operation of an Ammonia-Lime Plant with an External Reactor

higher degree of decomposition of combined ammonia salts. There are 4 figures and 1 table.

ASSOCIATION: Moskovskiy Koksogazovyy zavod (Moscow Coke-Gas Works)

SHUBEKO, P.Z.; KHMELEVOY, S.K.; KOLODYAZHNYY, I.V.

High-speed drying of ammonium sulfate in a vortex chamber. Koks i khim. no.1:38-40 '63. (MIRA 16:2)

1. Moskovskiy koksogazovyy zavod.
(Ammonium sulfate—Drying)

LEBEDEVA, G.N.; BURMISTRENKO, L.A.; KOLODYAZHNYY, I.V.; KAPLINA, Ye.G.; POLANUYER, O.G.; KULIK, I.P.

Recovery of pure ammonium sulfate in case of processes using Glover acid. Koks i khim. no.9:42-45 '63. (MIRA 16:9)

1. Vostochnyy ...ekhimicheskiy institut (for Lebedeva, Burmistrenko). 2. Moskovskiy k...sogazovyy zavod (for Kolodyazhnyy, Kaplina, Polanuyer, Kulik).

(Ammonium sulfate)
(Coke industry—Equipment and supplies)

L 31998-65 EWT(m)/EPF(c)/EWP(v)/EPR/EWP(j)/T Pc-4/Pr-4/Pa-4 WW/GS/RM
ACCESSION NR: AT5004101 S/0000/64/000/000/0130/0135

AUTHOR: Patrikeyev, G. A.; Antchak, V. K.; Levinshteyn, M. S.; Khrenov, I. F.; Myagkov, P. L.; Lebedev, I. M.; Kolodyazhnyy, L. I.

TITLE: The destruction of rubberized materials by abrasion

SOURCE: Nauchno-tekhnicheskoye soveshchaniye po friktsionnomu iznosu rezin. Moscow, 1961. Friktsionnyy iznos rezin (Frictional wear of rubber); sbornik statey. Moscow, Izd-vo Khimiya, 1964, 130-135

TOPIC TAGS: synthetic rubber, rubber wear, frictional wear, rubber abrasion, rubberized fabric

ABSTRACT: The effect of pressure, deformation, contact area and speed on the abrasion of rubberized materials was studied. Single- or double-sided rubberized cotton fabrics were subjected to abrasion on a newly developed tester (see p. 238 in this same collection). A linear relationship was shown to exist between pressure (0.3-5 kg/cm^2) and N, the number of friction cycles required for the destruction of material; but a number of critical ratios of pressure, contact area (and the related radius of the sample holder) and deformation were established at which a rapid change in the fabric properties occurs and

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L 31998-65

ACCESSION NR: AT5004101

complete destruction of the material is rapidly attained. The study of the N-pressure relationship at constant contact area or constant deformation therefore requires preliminary measurements under variable conditions to establish possibly existing critical conditions. The study of abraded materials indicated the existence of various abrasion mechanisms, including pure abrasion, tearing-out and breaking-out of parts, and the adhesive failure of the rubber layer. Good adhesion of the latter to the textile base is particularly required at high (3-5 kg/cm^2) pressures. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 05Aug 64 ENCL: 00 SUB CODE: MT

NR REF SOV: 000 OTHER: 000

Card 2/2

KOLODYAZHNYY, M.P.

Automation of reagent conditions of the flotation of native sulfur ores. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no. 12:9-11 D '65. (MIRA 19:1)

GURNITSKIY, P.V. [Hurnyts'kyi, P.V.], kand.tekhn.nauk; KOLODYAZHNYY, M.T., nauchnyy rabotnik

Conveyeor for removing manure. Mekh. sil'. hosp. 9 no.10: 6-7 O '58. (MIRA 11:10)

1. Poltavskaya oblastnaya opytnaya stantsiya (for Kolodyazhnyi). (Farm manure--Transportation) (Conveying machinery)

ALIMOV, O. D., doktor tekhn. nauk; DVORNIKOV, L. T., insh.; KOLODYAZHNYY, N. S., insh.

Universal stand for laboratory testing of rotary drills. Izv. vys. ucheb. zav.; gor. zhur. 5 no.8:100-106 '62. (MIRA 15:10)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S. M. Kirova. Rekomendovana kafedroy gornykh mashin i rudnichnogo transporta.

(Boring machinery—Testing)

BASOV, I.G., kand.tekhn.nauk; KOLODYAZHNYY, N.S., inzh.

Results of mine trials of an EBR-1-type, long-stroke electric drill test specimen. Izv. vys. ucheb. zav.; gor. zhur. no. 11:133-136 '60. (MIRA 13:12)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M. Kirova. Rekomendovana kafedroy mashin rudnichnogo transporta Tomskogo politekhnicheskogo instituta.
(Rock drills—Testing)

ALIMOV, O.D., dotsent; BASOV, I.G., kand.tekhn.nauk; KOLODYAZHNYY, N.S., inzh.

Electric drive of the lifting mechanism of a manipulator. Izv. vys. ucheb. zav.; gor. zhur. no.12:97-100 '60. (MIRA 14:1)

1.Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Rekomendovana kafedroy gronykh mashin i rudnichnogo transporta Tomskogo politekhnicheskogo instituta.
(Boring machinery)

KOLODYAZHNYY, N.V., kandidat tekhnicheskikh nauk.

Using pulverized fuel in locomotives. Tekh.zhel.dor.15 no.2:27-28 Mr '56. (MIRA 9:7)
(Locomotives--Fuel consumption) (Coal, Pulverized)

KOLODYAZHNYY, N.V., kand.tekhn.nauk

Prospects for a further speed increase in the traffic of freight trains. Zhel.dor.transp. 47 no.4:3-7 Ap '65. (MIRA 18:6)

1. Zamestitel' direktora Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.

KOLODYAZHNYY, P.T.

GERASIMOV, B.S., glavnyy inzhener; KOLODYAZHNYY, P.T., glavnyy mekhanik.

Narrow-gauge motor car. Les. prom. 35 no.2:22a F '57. (MLRA 10:4)

1. Vogul'skiy lespromkhoz.
(Railroad motor cars)

SOV/84-58-9-12/51

AUTHOR: Kolodyazhnyy, S., Chief of Zhdanov airport (Zhdanov)

TITLE: Overfulfilling Quotas (Perevypolnyayem planovyye zadaniya)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 9, p 7 (USSR)

ABSTRACT: The short article reports quadrupling the air freight transportation against the quotas in Zhdanov airport during the first half of the year. The achievement is mainly due to the expansion of local air services, and also to better advertising.

Card 1/1

GOLOTA, Georgiy Fedorovich; KOLODYAZHNYY, V.F., inzh., retsenzent; PASINSKIY, A.M., inzh., retsenzent; PRYSHCHENKO, Yu.I., kand. tekhn. nauk, nauchn. red.; SOSIPATROV, O.A., red.

[Assembler of reinforced-concrete ships] Sborshchik zhelezobetonnykh sudov. Leningrad, Sudostroenie, 1965. 177 p. (MIRA 18:7)

KOLODYAZHNYY, Vasiliy Il'ich; KOSTYUKOVA, K.Yu., doktor biol. nauk, prof., otv. red.; VAYNSHTEYN, Sh.I., red.

[Methodological problems in the works of K.A.Timiriazev and the problems of modern biology] Voprosy metodologii v trudakh K.A.Timiriazeva i problemy sovremennoi biologii. Kiev, Naukova dumka, 1965. 249 p. (MIRA 18:9)

KOLODYAZHNIY, V.I.

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 16, 25 March 1957, 21262

Author : Kolodyazhniy, V.I.
Inst : not given
Title : Philosophical Problems of the Theory of Evolution of Species, and Species.

Orig Pub: Vestn. Leningr. un-ta, 1954, 9, No 10, 17-29

Abstract: The author shares the T.D. Lysenko basic concepts on evolution of species. Darwin's method is characterized as an evolutionary one, reflecting mainly quantitative changes, though also containing dialectic elements. The critical attitude of Marxism-Leninism classicists toward Darwin's theory is pointed out despite the exceptionally high evaluation of it. It is noted that even in the 19th century literature there was mention of direct conversion of one species into others. It is emphasized that

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KOLODYAZHNIY, V. I.

SHISHKIN, B. K., professor; ROMANKOVA, A. G., kandidat biologicheskikh nauk, starshiy nauchnyy sotrudnik; MARKOV, G. S., doktor biologucheskikh nauk, dotsent; DANILEVSKIY, A. S., kandidat biologicheskikh nauk, dotsent; SHTEYNBERG, D. M., doktor biologicheskikh nayk; LOMAGIN, A. G. aspirant; SELL'-BEKMAN, I. Y., mladshiy nauchnyy sotrudnik; ZHINKIN, L. N., doktor biologicheskikh nauk, professor; IPATOV, V. S., student V kursa; KOZLOV, V. Ye. kandidat biologicheskikh nauk, starshiy nauchnyy sotrudnik; KARTASHEV, A. I., kandidat biologicheskikh nauk, dotsent; starshiy nauchnyy sotrudnik; NITSENKO, A. A., dtarshiy naychnyy sotrudnik; VASILEVSKAYA, V. K., doktor biologicheskikh nauk, dotsent; RYLMIN, A. V., kandidat biologicheskikh nauk; NAUMOV, D. V., kandidat biologicheskikh nauk, mladshiy nauchnyy sotrudnik; KHOZATSKIY, L. I. kandidat biologicheskikh nauk, dotsent; GOROBETS, A. M., kandidat biologicheskikh nauk, starshiy nauchnyy sotrudnik; GODLEVSKIY, V. S., assistent; GERBIL'SKIY, N. L., doktor biologicheskikh nauk, professor; ALEKSANDROV, A. D., professor; KOLODYAZHNYY, V. I.; TURBIN, N. V.; ZAVADSKIY, K. M.

[Theory of species and the formation of species]. Vest. Len. un. 9 no. 10:43-92 0 '54. (MLRA 8:7)

1. Chlen-kerrespondent Akademii nauk SSSR (for Shishkin, Aleksandrov)

(Continued on next card)

SHISHKIN, B. K., professor; ROMANKOVA, A. G., Kandidat biolocheskikh nauk, statshiy naychnyy sotrudnik, and others.

[Theory of species and the formation of species]. Vest. Len.un. 9 no. 10:43-92 O '54. (MLRA 8:7)

2. Leningradskiy gosudarstvennyy universitet (for Shishkin, Romankova, Markov, Ipatov, Kozlov, Kartashev, Godlevskiy, Gerbil'skiy, Aleksandrov) 3. Zoologicheskiy institut Akademii nauk SSSR (for Shteynberg, Naumov) 4. Kafedra entomologii Leningradskogo gosudarstvennogo universiteta (for Damilevskiy). 5. Kafedra darvinizma Leningradskogo gosudarstvennogo universitete (for Lomagin, Gorobets). 6. Kafedra geobotaniki Leningradskogo gosudarstvennogo universiteta (for Nitsenko). 7. Kafedra botaniki Leningradskogo gosudarstvennogo universiteta (for Vasilevskaya). 8. Kafedra zoologii pozvonochnykh Leningradskogo gosudarstbennogo universiteta (for Khozatskiy). 9. Leningradskoye otdeleniye Vsesoyuznogo instituta udobreniy, agropochvovedeniya i agrotekhniki (for Sell'-Bekman) 10. Institut eksperimental'noy meditsiny Akademii meditsins kikh nauk, SSSR (for Zhinkin)

(Origin of species)

KOLODYAZHNYY, V.I., glav. red.

[Darwinism and philosophy] Darvinizm i filosofiia; sbornik statei. Kiev. 1960. 125 p. (MIRA 14:11)

1. Kiev. Ukrains'ka akademiya sil's'khohospodars'kykh nauk.
(Darwin, Charles Robert, 1809-1882) (Evolution)

L 01008-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5019566 UR/0191/65/000/008/0013/0017
678.63—9:678.743.22

AUTHOR: Pevzner, L. V.; Kolodyazhnyy, V. Z.; Karyakina, K. N.; Ravich, G. B.

TITLE: Study of combination products of phenolformaldehyde resins with polyvinyl chloride

SOURCE: Plasticheskiy massy, no. 8, 1965, 13-17

TOPIC TAGS: copolymer, polyvinyl chloride, phenolformaldehyde, resin, polyformaldehyde plastic

ABSTRACT: The purpose of this work was to investigate in detail the interaction of phenolformaldehyde resins with polyvinyl chloride to produce phenolates. The investigation consisted of thermogravimetric and thermomechanical measurements. For thermomechanical measurements specimens were produced by pressing. A polarizing microscope with a heated stage was used for microstructural analysis of specimens. A comparison of thermographic and thermomechanical properties of the starting resins and their combination products indicates that the combination of polyvinyl chloride with phenolformaldehyde resins in the presence of hexamethylenetetramine results in cross linking of phenolformaldehyde resins with polyvinyl chloride by methylene

Card 1/2

L 01008-66

ACCESSION NR: AP5019566

3

groups. This conclusion is verified by the solubility data and spectroscopic analysis. "The experimental part of this work was conducted with the participation of Ye. A. Dubrovina." Orig. art. has: 10 figures.

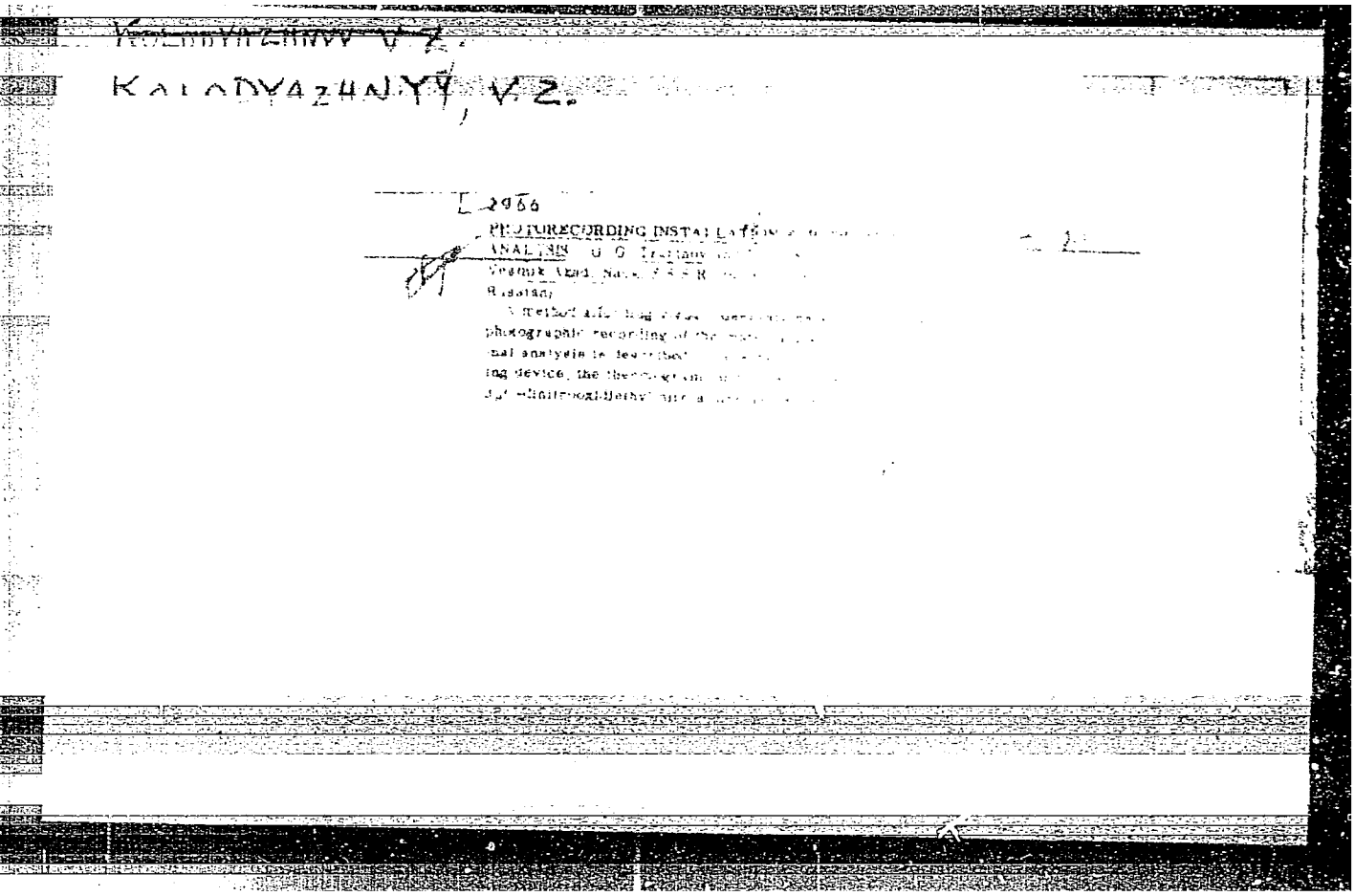
44,55

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MT

NO REF SOV: 005 OTHER: 000

Card 2/2



S/078/61/006/008/002/018
B121/B203

AUTHORS: Bokiy, G. B., Tsurinov, G. G., Sokol, V. I., Kolodyazhnyy, V. Z.

TITLE: Immersion liquids for crystallo-optical studies at low temperatures (-100°C)

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 8, 1961, 1754-1758

TEXT: This study concerns the determination of optical constants of crystals in wide temperature ranges from +250 to -100°C using the immersion method by means of a thermostat installed in a ГС-10 (GS-10) goniometer. The method worked out permits a determination of refractive indices at temperatures to -150°C with an accuracy of 0.5°C. The temperature constance was controled with an ЭПВ-01 (EPV-01) or МРЩПр-54 (MRShchPr-54) electron potentiometer. Several immersion liquids with refractive indices of 1.378 - 1.705 were used for determining the refractive indices of crystals at a temperature below -100°C. The refractive index of crystals is calculated from the formula: $N = \frac{\sin(\frac{A+f}{2})}{\sin\frac{A}{2}}$, where N is the refractive

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index and A the prismatic angle. The dependence of refractive indices on the temperature of the respective liquids is expressed by a line whose angle of inclination depends on the refractive indices of the liquids. There are 2 figures, 1 table, and 12 references: 1 Soviet-bloc and 11 non-Soviet-bloc. The two most recent references to English-language publications read as follows: Ref. 7: R. Meysowitz, Amer. miner. 37, 853 (1952); Ref. 8: R. Meysowitz, Amer. min. 40, 398 (1955).

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences USSR)

SUBMITTED: July 19, 1960

KOLODYAZHNYY, Ya.A.; SAIDOV, A.M.

Cumulative axial-action torpedo. Biul. nauch.-tekh. inform. VIMS no.2:83 '63. (MIRA 18:2)

KOLODYAZHNYY, Yu.V.; OSIPOV, O.A.; KASHIRENINOV, O.Ye.

Reaction of tetraethoxysilane with titanium tetrachloride. Zhur. fiz.khim. 39 no.7:1771-1773 Jl '65. (MIRA 18:8)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

KOLODYNSKA, Zofia; BINIECKI, Stanislaw

Synthesis of some quinoxalyl- and diquinoxalyl-diamines.
Acta pol. pharm. 20 no.4:285-292 '63.

1. Z Zakladu Nowych Lekow Instytutu Lekow w Warszawie.
(AMINES) (HETEROCYCLIC COMPOUNDS)
(CHEMISTRY, PHARMACEUTICAL)

BINIECKI, Stanislaw, prof. dr.; KOLODZIEJSKA, Zofia

Synthesis of 7-dimethoxy-7-(omega-dialkylaminopolymethylamino)-colchicine. Acta Pol. pharm. 21 no.5:421-427 '64.

1. Z Zakladu Nowych Lekow Instytutu Lekow w Warszawie (Kierownik: prof. dr. S. Biniecki).

KOLODYNSKA, Zofia; BINIECKI, Stanislaw , prof. dr.

Synthesis of some quinazolyl- and bis-quinazolyl-diamines. Acta Pol. pharm. 21 no.3:225-231 '64

1. Z Zakladu Nowych Lekow Instytutu Lekow i Zakladu Technologii Chemicznej Srodkow Leczniczych Akademii Medycznej w Warszawie. (Kierownik: prof. dr. S. Biniecki).

BINIECKI, Stanislaw; KOLODYNSKA, Zofia

Synthesis of N-(2-quinoxaly)- and N-(4-quinazolyl)-alpha, kappa-diaminodecane. Acta Pol. pharm. 20 no.6:409-412 '63.

1. Z Zakladu Nowych Lekow Instytutu Lekow w Warszawie.

KOLODYNSKI, Stefan

Prevention of aircraft collision in the air. Letecky obzor 8 no. 6:172-174 Je '64.

KOLODYNSKI, Stefan, major reaerwy, pilot

The safety problem in aerial communication. Techn lotn 17 no.1: 3-5 '62.

(Airplanes)

KOLODYNSKI, Stefan

Prevention of aircraft collisions in flight. Techn lotn 19 no. 1: 17-21 Ja '64.

KOLODYNSKI, Stephen

Warsaw, Technika Lotnicza, Vol XVII, No 1, January 1962

1. "The 1962 Tasks of the Polish Society of Mechanical Engineers and Technicians," (unsigned) p 1.
2. "New Types of Jet Engines," T. KOLLINIECIC, Magister Engr; pp 2-3.
3. "Question of Safety in Aerocommunications," Stefan KOLODYNSKI, pilot, major in the reserve; pp 3-5. (Article in Polish; original published in Britain.)
4. "Application of the Analysis of Dynamic Gases to the Study of Combustion Processes of Turbine Engines," Jerzy CHOJNAK, Magister Engr, of the Aviation Institute (Instytut Lotnictwa), Warsaw; pp 6-15.
5. "Turbine Engines at the 24th Paris Show," Julian FALICKI, Magister Engr; pp 15-20.
6. "Patent News," S. MACIESKI, Magister Engr; pp 20-23.

CSO: 2000-S
1988

1/1

KOLODYNSKI, Stefan, mgr. ins.

Noise and human environment. Techn lotn 16 no.9:214-220 S '61.

Kolodziejczakowna, Maria

POLAND/Analytical Chemistry - Analysis of Inorganic Substances E-2

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7577

Author : Kolodziejczakowna Maria
Inst : Not Given
Title : Polarographic Determination of Trace Amounts of Zinc in Nickel Sulfate

Orig Pub : Chem. anal., 1956, 1, No 2-3, 169-179

Abstract : A polarographic method is described for the determination of 10^{-3} - 10^{-1}% of Zn in $NiSO_4 \cdot 7H_2O$ (I). 10g. of $NiSO_4 \cdot 7H_2O$ is dissolved in water with heat in the presence of 10 ml. of con. HCl and the solution is diluted with water to 100 ml. To 10 ml. of the resulting solution 10% KCN solution is added dropwise until the disappearance of the precipitate, HCl is added to pH 4-5, 1 g. of CH_3COONa is added (pH ---> 5-5.5) and the solution is extracted with a solution of dithizone in CCl_4. The extract is shaken twice with water and 4 times with HCl (1:3). The obtained hydrochloric acid solution, containing Zn, Cu and traces of Ni is first evaporated to dryness

Card : 1/2

USSR / Farm Animals

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40436.

Author : Lukashik N. A., Kolodzeva Ye. Ye., Grigor'-yeva L. V.
Inst : Not given.
Title : The Proteins of Colostrum in Different Feeding of Cows During the Dry Period.

Orig Pub: Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1957, vyp. 27, 224-227.

Abstract: The samples of colostrum obtained from the 1, 3, 6, and 10 milkings were analyzed along with the average samples of the milk, on the 5th day, of cows and heifers which were fed, before calving, the rations of a different level of aggregate, protein, and mineral feeding, and of different composition. In the

Card 1/2

LUKASHIK, N.A., assistent, kand. sel'skokhoz. nauk; KOLODZEVA, Ye. Ye.; TABAKOVA, Z.F.; GRIGOR'YEVA, L.V.

Amino acid composition of the proteins of grain, beans, and some forage grasses. Izv. TSKHA no. 1:196-206 '65 (MIRA 19:1)

1. Kafedra kormleniya sel'skokhozyaystvennykh zhivotnykh Moskovskoy sel'skokhozyaystvennoy ordena Lenina akademii imeni Timiryazeva.

KACHOROVSKIY, Yu. (Pol'skaya Narodnaya Respublika); KOLODZEY, V. (Pol'skaya Narodnaya Respublika)

Analysis of the results of underground storage of natural gas in the Rostoki field. Gaz.prom. 4 no.1:51-56 Ja '59. (MIRA 12:1)

(Poland--Gas, Natural--Storage)

KOLODZEYSKAYA, G. [Kołodziejska, H.]; KOYRO, M.A. [translator]

Hormone treatment of far advanced breast cancer. Vop.onk. 5 no.11: 552-555 '59. (MIRA 14:7)

1. Iz Instituta onkologii, Krakov, Pol'skaya Narodnaya Respublika.
(BREAST--CANCER) (TESTOSTERONE)
(STILBENEDIOL) (CORTISONE) (ADRENAL GLANDS--EXCISION)

HORBOWSKA, Hanna; WIELOPOLSKA, Hanna; SROCZYNSKA, Janina; WACKOWSKA, Maria; KOLODZIECZYK, Krystyna; LESKI, Bohdan; MAKSYMOWICZ, Malgorzata; TRUCHANOWICZ, Zofia

Studies on the etiological factor of infantile diarrheas occuring during the fall and winter months of 1962-1963 in Warsaw. Med. dosw. mikrobiol. 16 no.2:93-100 '64.

1. Z Miejskiej Stacji San.-Epid. i Miejskiego Szpitala Zakaznego Nr.3 w Warszawie.

KOLODZIEJ, B.

"Planing cutters of cemented carbides in planers by application of boron carbide cutter-bids." p. 16
(Mechanik, Vol 25 No 1 Jan 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No. 9 Library of Congress Sept 53 Uncl

KOLODZIEJ, B., inz.

Electromagnetic vibrator as a motor. Rudy i metale 8 no.9: 351-352 S'63.

KOLODZIEJ, E.

The problem of supplying the rural districts in the light of the National Economic Plan for 1957.

P. 4 (Rolink Spoldzielca. Vol. 9, (i.e.10) no. 7, Feb. 1957, Warszaw, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

KOLODZIEJ, E.

Warszawa

Principal task, p. 1. (ROLNIK SPOLDZIELCA, Vol. 8, no. 11, Mar. 1955.)

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

KOLODZIEJ, Jan (Szczecin, Al. Powstancow 72. II Klin. Chirurg P.A.M.)

Case of chyliferous mesenteric cyst. Polski tygod. lek. 14 no.10: 439-441 9 Mar 59.

1. (Z II Kliniki Chirurgicznej P.A.M. w Szczecinie; kierownik: doc. dr med. W. R. Heftman).
(MESENTERIES, cysts
chyliferous, case report (Pol))
(CHYLE
chyliferous mesenteric cyst (Pol))

KOLODZIEJ, Jozef

From the Superphosphate Plants in Bogucice. Przem chem 41 no.5:283. My '62.

KOLODZIEJ, Jozef

Transition data of the soil temperatures 0° and 5°C during spring and autumn as based on examples of several meteorological stations in Poland for the years 1951-1956. Postepy nauk roln 12 no.1:41-50 Ja-F '65.

1. Department of Meteorology and Climatology of the School of Agriculture, Lublin.

KOLODZIEJ, Jozef; NOWOTNY, Gustaw

Local penicillin therapy of paronychia. Polski tygod. lek. 9 no.13: 395-398 29 Mar 54.

1. Z I Kliniki Chirurgicznej A.M.w Poznaniu, dyrektor: prof. dr St.Nowicki.

(PARONYCHIA, therapy,
penicillin)
(PENICILLIN, therapeutic use,
paronychia)

KOLODZIEJ, Josef

Treatment of intestinal fistulas. Polski przegl. chir. 26 no.11: 985-998 Nov 54.

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Poznaniu. Kierownik: prof. dr. St. Nowicki.
(INTESTINES, fistula, surg.)
(FISTULA, intestines, surg.)

KOLODZIEJ, Josef

The origin and course of traumatic arterial spasm. Poznan. tow. przyjaciol nauki, wydz. lek. 12 no.2:1-35 '55.

1. Z I Kliniki Chirurgicznej A.M. w Poznaniu. Kierownik: prof. dr. St. Nowicki.

(ARTERIES, diseases
spasm, traum., pathol)
(SPASM
arterial, traum. pathol.)

KOLODZIEJ, Josef

Traumatic arteriospasm consecutive to bone fracture. Chir. narz. ruchu 20 no.1:33-40 1955

1. Z I Kliniki Chirurgicznej A.M. w Poznaniu. Kierownik: prof. dr St.Nowicki.

(HUMERUS, fractures,
with arteriospasm)
(FRACTURES,
humerus, with arteriospasm)
(VASCULAR DISEASES, PERIPHERAL,
arteriospasm in fract. of humerus)

KOLODZIEJ, Jozef

Traumatic arteriospasm. Polski przegl. chir. 28 no.7:675-676 July 56.

1. Poznan, ul. Dluga 1.
(VASCULAR DISEASES, PERIPHERAL,
arteriospan, traum. (Pol))

KOLODZIEJ, Jozef

Bleeding from the digestive system in cholelithiasis. Polski przegl. chir. 30 no.5:519-521 May 58.

(GASTROINTESTINAL SYSTEM, hemorrh.
in cholelithiasis (Pol))
(CHOLELITHIASIS, compl.
gastrointestinal hemorrh. (Pol))

KOLODZIEJ, Jozef

Acute cholecytitis. Polski przegl. chir. 33 no.1:35-47 '61.

1. Z I Kliniki Chirurgicznej A.M. w Poznaniu Kierownik: prof. dr St. Nowicki.

(CHOLECYSTITIS surg)

KOLODZIEJ, Jozef; POPIEL, Feliks

Antibiotics in the treatment of furuncles. Polski przegl. chir. 33 no.7/9:907-909 '61.

1. Z I Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr St.Nowicki.

(ANTIBIOTICS ther) (FURUNCLOSIS ther)

KOLODZIEJ, Jozef; BRODZINSKA, Kazimiera

Surgical treatment of jaundice and biliary lithiasis. Pol. przegl. chir. 35 no.7/8:849-850 '63.

1. Z I Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr S. Nowicki.

(CHOLELITHIASIS) (SURGERY, OPERATIVE)
(JAUNDICE, OBSTRUCTIVE)

HEFTMAN, Wladyslaw R.; KOLODZIEJ, Jan; MIELCAREK, Stanislaw

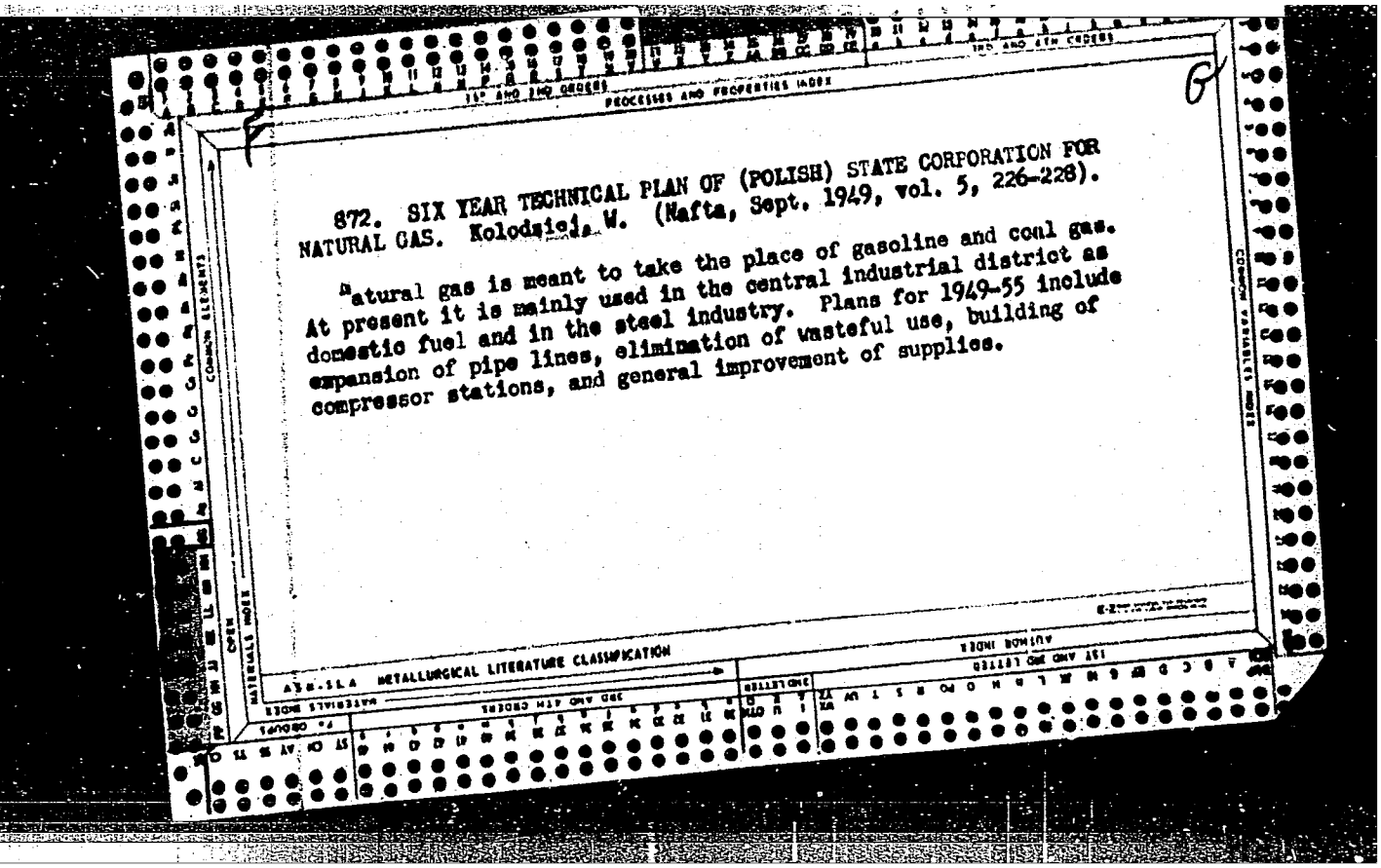
Our observations on some problems of subphrenic abscesses.
Roczn. Pom. akad. med. Swierczewski 10:349-357 '64.

1. Z II Kliniki Chirurgicznej Pomorskiej Akademii Medycznej
(Kierownik: prof. dr med. Wladyslaw Heftman) i z Zakladu
Radiologii Panstwowego Szpitala Klinicznego nr 2 w Szczecinie
(Kierownik: dr med. Stanislaw Mielcarek).

KOLODZIEJ, Jozef

Appendectomy according to principles of the Cracow school.
Pol. przegl. chir. 37 no.8:785-789 Ag '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr. S. Nowicki).



872. SIX YEAR TECHNICAL PLAN OF (POLISH) STATE CORPORATION FOR NATURAL GAS. Kolodziej, W. (Nafta, Sept. 1949, vol. 5, 226-228).

Natural gas is meant to take the place of gasoline and coal gas. At present it is mainly used in the central industrial district as domestic fuel and in the steel industry. Plans for 1949-55 include expansion of pipe lines, elimination of wasteful use, building of compressor stations, and general improvement of supplies.

KOLODZIEJ, W.

"Methanometers for natural gas works," Gaz, Woda I Technika Sanitarna, Warszawa, Vol 28, No 7, July 1954, p. 216.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

KOLODZIEJ, W.

V 3979. UNDERGROUND STORAGE OF NATURAL GAS AND RESULTS OF EXPERIENCE IN POLAND. Kaczorowski, J. and Kolodziej, W. (Gaz, Woda, Tech. Sanit. (Gas, Water, Sanit. Engng, Warsaw), May 1955, vol. 29, 150-157; abstr. in Ass. tech. Industr. Gaz France Circ. bibliogr., 15 Aug./15 Sept. 1955, (8), 12).

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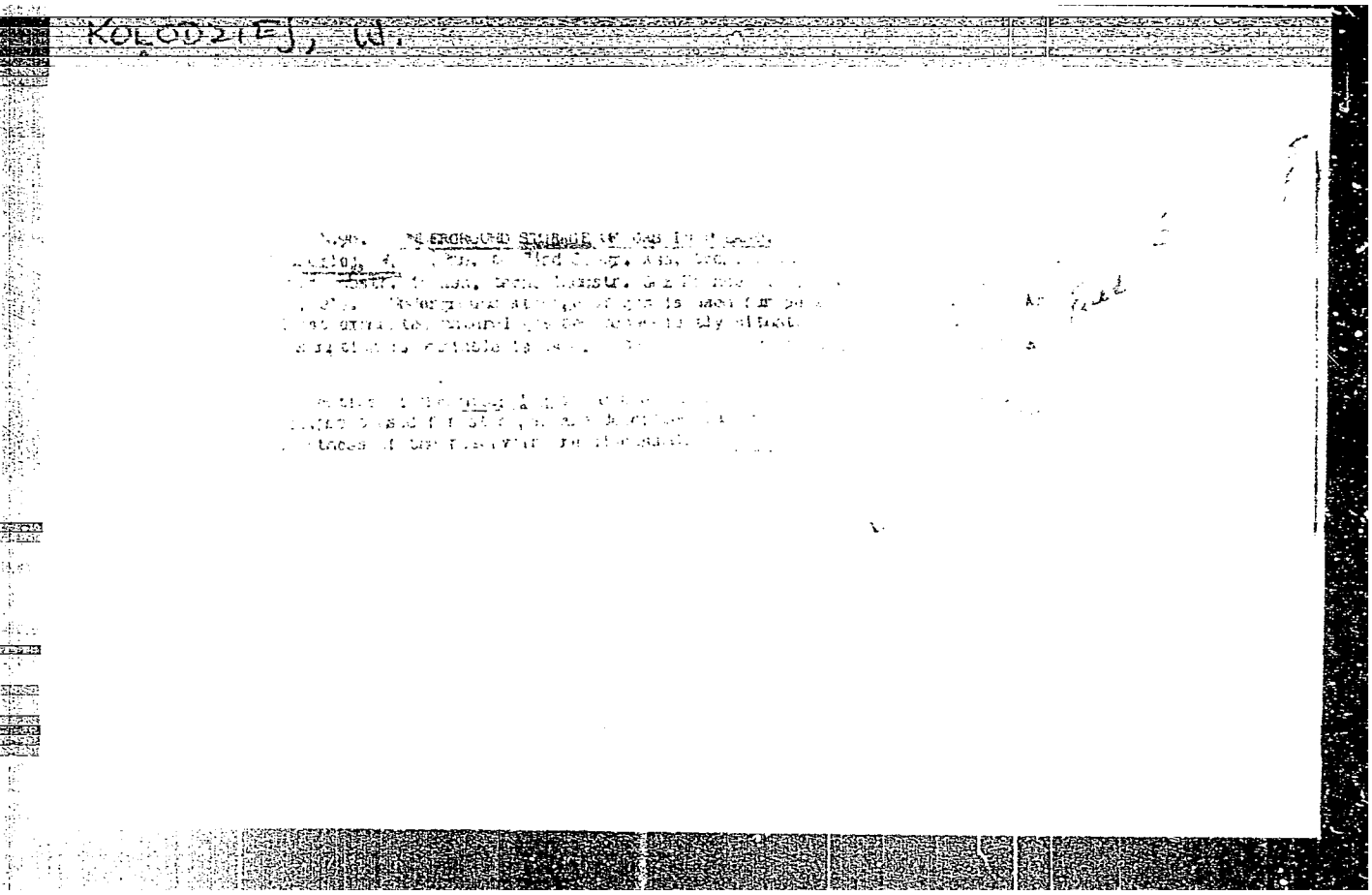
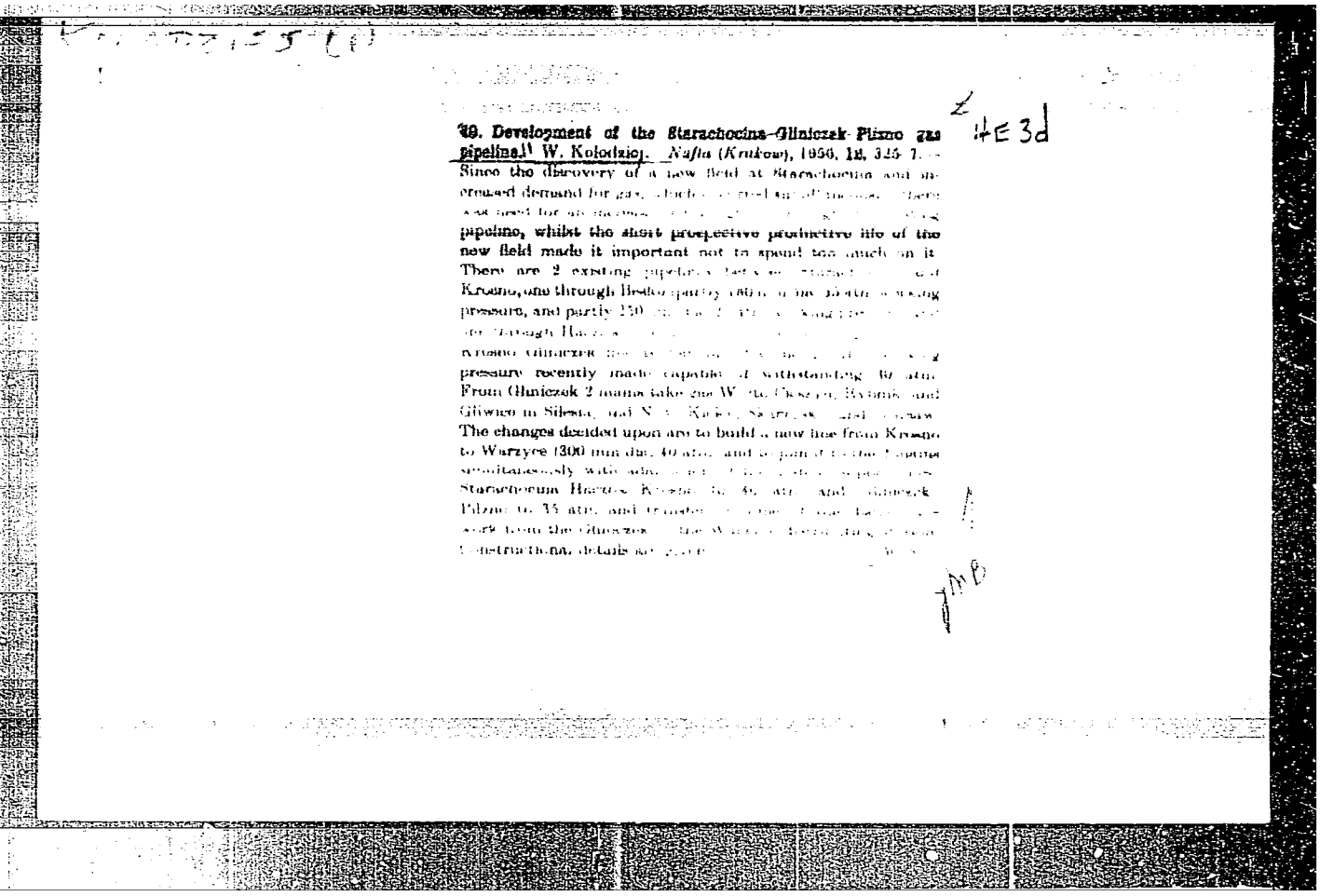
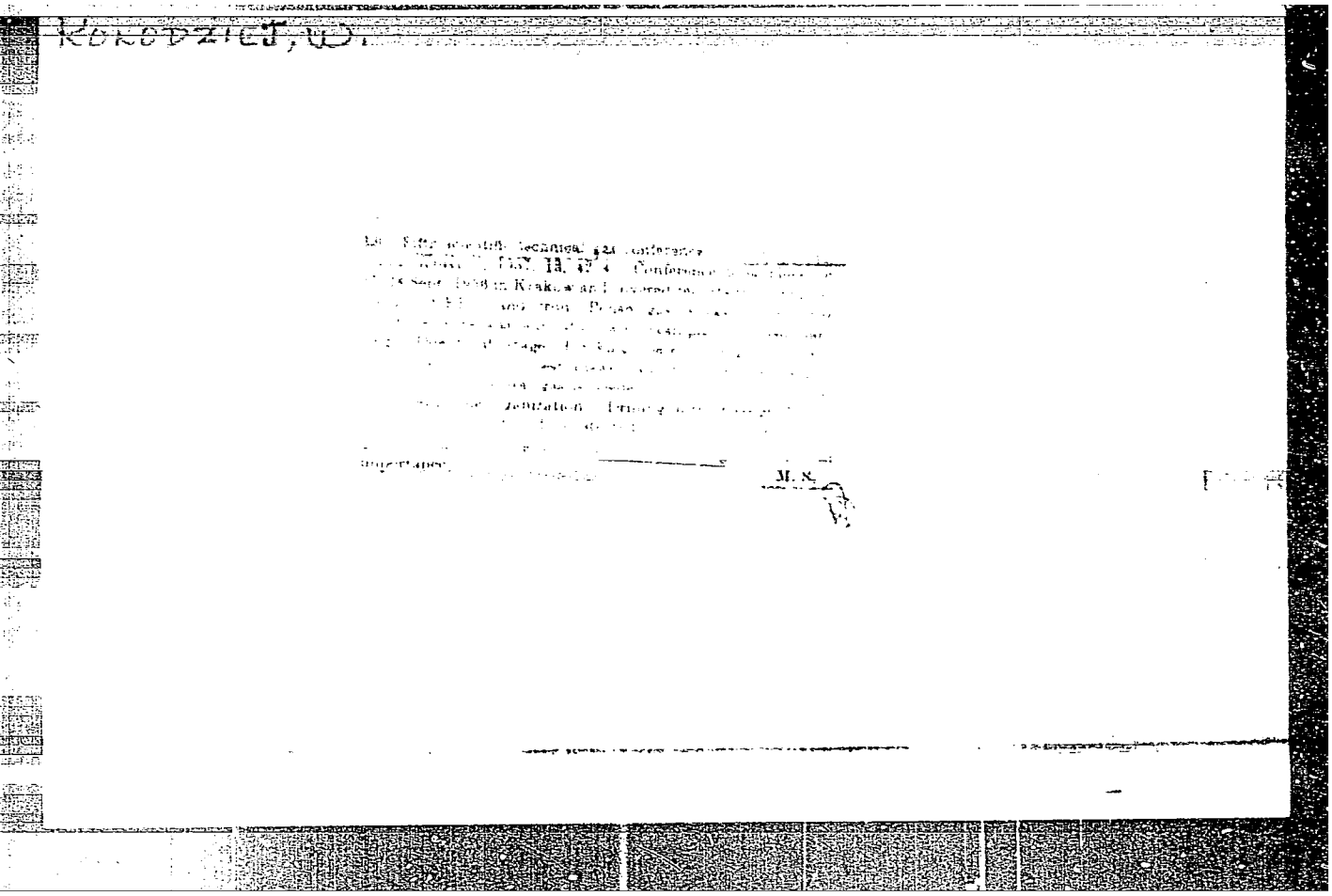




49. Development of the Starachocina–Gliniczek Pilzno gas pipeline. W. Kolodziej. *Nafta* (*Krakow*), 1956, **12**, 345–7.—Since the discovery of a new field at Starachocina and increased demand for gas, [illegible] pipeline, whilst the short prospective productive life of the new field made it important not to spend too much on it. There are 2 existing pipelines [illegible] Krosno, one through Brzeko (partly [illegible] pressure, and partly 250 [illegible] through Ha[illegible] Krosno–Gliniczek [illegible] pressure recently made capable of withstanding 80 atm. From Gliniczek 2 mains take gas W. to Oswiecim, Bytom and Gliwice in Silesia, and N. to Kielce, Skarzysko and Warsaw. The changes decided upon are to build a new line from Krosno to Warzyce (300 mm. diam., 40 atm.) and to join it to the Pilzno–Starachocina–Hucisko–Kielce line (300 mm., 40 atm.) and Gliniczek–Pilzno (to 35 atm.) and to make [illegible] work from the Gliniczek [illegible] Construction details are given.



KOLODZIEJ, W.; OBUCHOWICZ, Z; GIRZEJOWSKI, J.

Prospects and general trends of development in the Polish natural gas industry. p. 173

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa) Warszawa, Poland.
Vol. 33, no. 5, May 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959
Uncl.

KOLODZIEJ, Wladyslaw, mgr. inz.; KOZAKIEWICZ, Krystyna, mgr.

Utilization of mine drainage methane. Gaz woda tech sanit 36 no.6:203-205 Je '62.

KOLODZIEJ, W.

Some general gap reversibility laws for permanent Toeplitz limiting methods. Bul Ac Pol mat 9 no.5:375-378 '61.

1. Instytut Matematyczny, Polska Akademia Nauk, Warszawa. Presented by S. Mazur.

KOLODZIEJ, Z.

COUNTRY : POLAND H
CATEGORY : Chemical Technology. Chemical Products and Their Applications. Lacquers. Paints. Coatings
ABS. JOUR. : RZKhim., No. 19, 1959, No. 69857

AUTHOR : Garda, C; Kolodziej, Z.; Slusarska, E.
INST. : -
TITLE : Investigation of the Usefulness of Dyes for the Manufacture of India Ink and Inks.

ORIG. PUB. : Przegl. papiern., 1958, 14, No 4, 108-111

ABSTRACT : Presented are results of an experimental work involving the utilization of Polish indigenous dyes for the manufacture of inks, india inks and stamping dyes. Indigenous samples were found satisfactory and in some instances gave superior results than foreign dyes.-- B. Yakesh.

CARD: 1/1

H - 156

KOLODZIEJ, ZOFIA

POLAND / Human and Animal Morphology, Normal and Pathological. Blood and the Hematopoietic System. S-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 83679

Author : Lille-Szyszkowicz, I.; Kolodziej, Z.
Inst : Not given
Title : Morphological Picture of the Blood of Prematurely and Normally Born in the Light of Cytochemical Investigations. Report 1.

Orig Pub : Pediatr. polska, 1957, 32, No 5, 481-497

Abstract : No differences were revealed in the content of nucleic acids, lipids and peroxidase in granulocytes of prematurely and normally born infants as well as of grownups. However, in granulocytes of neonates, regardless of the stage of fetal development, the alkaline phosphatase content increased sharply. This testifies to the existence of intensified leukocytic metabolism as a reaction to birth trauma in neonates. -- A. I. Gladshteyn.

Z Pracowni Immunohematologicznej Instytutu Matki i Dziecka.

Card 1/1

23024

P/045/61/020/004/002/004
B133/B205

24.7700

AUTHOR: Kołodziejczak, J.

TITLE: Transport of carriers in n-type indium antimonide at low temperatures

PERIODICAL: Acta Physica Polonica , v. 20, no. 4, 1961, 289-302

TEXT: Electrical conductivity, Hall effect, and ionic mobility are calculated in the range 0°K - 100°K, account being taken of the non-parabolic structure of the conduction band. The dependence of the effective mass on the electron concentration is derived, for which purpose the transport equation is solved by Mc Clure's method, yielding the following components of the conductivity tensor:

$$\sigma_{xx} = \sigma_{yy} = \sigma = C\int_0^\infty Ak^4 dk$$

$$\sigma_{yx} = -\sigma_{xy} = C\int_0^\infty A\tau\omega k^4 dk \qquad (2.13)$$

Card 1/9

Transport of carriers in ...

with

$$C = \frac{h^2 e^2}{12\pi^4}; \quad A = \left(-\frac{\partial f_0}{\partial \varepsilon}\right) \tau \left(\frac{1}{m^*}\right)^2 \qquad \text{(A)};$$

f_0 is the distribution function for thermodynamic equilibrium, τ the relaxation time, and ω the cyclotron frequency. The scattering mechanism predominant at temperatures below 100°K is that of scattering by ionized impurities. Then, the components of the conductivity tensor acquire the form:

$$\sigma_{xx} = \sigma_{yy} = \sigma_{zz} = \sigma = GL^3_{-2}$$
$$\sigma_{yx} = -\sigma_{xy} = G\sqrt{\gamma}\, L^{3/2}_{-4} \qquad (3.22),$$

where

Card 2/9

Transport of carriers in ....

$$C = \frac{16}{3}\pi\frac{e^2}{h^3}m_n k_0 T l_0$$

$$l_0 = \frac{2\varkappa^2(k_0T)^2}{\pi\hbar N e^4 B} \qquad \text{(B)},$$

$$\gamma = l_0^2\frac{e^2H^2}{2m_n k_0 T}$$

$$\varrho = -\frac{4\pi e^2(2m_n)^{3/2}}{h^3}(k_0T)^{1/2}\,l\,L_1^{1/2}(\beta,\eta) \qquad (3.11),$$

$$L_k^n = \int_0^\infty\left(-\frac{df_0}{dx}\right)(x+\beta x^2)^n\,(1+2\beta x)^k\,dx \qquad \text{(c)},$$

$$\beta = \frac{k_0T}{\varepsilon_g}; \quad \eta = \frac{\zeta}{k_0T}. \qquad \text{(d)}.$$

Card 3/9

Transport of carriers in ...

ε_g is the energy gap at k=0; $\chi = \frac{\varepsilon}{\varepsilon_g}$; and ζ is the Fermi level. On the basis of the foregoing considerations, the Hall constant is calculated, and it is shown that if $\beta=0$ is put in the foregoing formulas, the respective expressions for the parabolic band will be obtained. The non-parabolic structure of the conduction band can produce measurable effects only in the case of samples with large amounts of impurities. At low temperatures, high concentrations of the latter cause strong degeneracy of their electron gas. Degeneracy can be especially strong in indium antimonide. Calculation of the effective mass for different electron concentrations shows full agreement with experimental data. The following expressions are obtained for the electrical conductivity and electron mobility:

$$\sigma = \frac{1}{48}\left(\frac{3}{\pi}\right)^2 \frac{h^3\varkappa^2 n^2}{(N_i+n)e^3 Bm^{*2}} \qquad (5.12),$$

$$u = \frac{1}{48}\left(\frac{3}{\pi}\right)^2 \frac{h^3\varkappa^2 n}{(N_i+n)e^3 Bm^{*2}} \qquad (5.13),$$

Card 4/9

where n is the electron concentration, and N_i the double number of acceptors. As these quantities are unknown, a comparison with experimental results, such as those obtained by Tauc and Matyas (Tauc, J., Matyas, M., Czech. J. Phys., 5, 369, (1955)) is difficult. In Fig. 3, different values of N_i are assumed, and the resultant values of electrical conductivity are plotted versus the electron concentration. Fig. 5 (electrical conductivity versus temperature) indicates lack of consistency with the experimental data. The source of error may reside in the fact that for magnetic fields of 2000 oe, the classical theory of the Hall effect ceases to be valid. The author thanks Professor Doctor L.Sosnowski, Doctor Doctor M. Suffczyński, J. Ginter, and J. Rałuszkiewicz for valuable hints; he also thanks B. Załoga for help in calculations. There are 5 figures, 3 tables, and 10 references: 1 Soviet-bloc and 9 non-Soviet-bloc. The three most recent references to English-language publications read as follows: Kane, E. O., J. Phys. Chem. Solids, 1, 249, (1957); Putley, E. H., Proc. Phys. Soc. London, 73, 280, (1959); Smith, S. D., Moss, T. S., Taylor, K. W., J. Phys. Chem. Solids, 11, 131, (1959).

23024

Transport of carriers in ...

P/045/61/020/004/002/004
B133/B205

ASSOCIATION: Institute of Physics, Polish Academy of Sciences, Warsaw

PRESENTED: September 29, 1960; transl. paper rec. November 25, 1960

Card 6/9

25139
P/045/61/020/005/002/008
B133/B231

9;4300

AUTHOR: Kołodziejczak, J.

TITLE: The theory of transport phenomena in semiconductors

PERIODICAL: Acta Physica Polonica, v. 20, no. 5 - 6, 1961, 379 - 389

TEXT: Electric current and heat flux are computed on the assumption of an optional structure of the energy band. The theory of various thermo- and galvanomagnetic effects is developed for spherical energy surfaces but not necessarily for parabolic dependence of the energy on the wave vector. The solution of the transport equation by the Mc Clure method furnishes $J_i = \sigma_{il}E_l - \Theta_{il}\frac{dT}{dx_l}$ (1.16) for current density, where σ_{il} is the tensor for the electric conductivity $\sigma_{il} = \frac{2e_i^2}{(2\pi)^3}\int d_3k\left(-\frac{df_0}{d\varepsilon}\right)\tau S_{il}$ (1.17). Θ_{il} is the thermoelectric tensor, given by $\Theta_{il} = \frac{2e_i}{(2\pi)^3}\int d_3k\left(-\frac{df_0}{d\varepsilon}\right)\tau\left[\frac{\varepsilon}{T}+T\frac{d}{dT}\left(\frac{\zeta}{T}\right)\right]S_{il}$ (1.18). S_{il} is given

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by the Fourier coefficients in the expansion into a series according to the velocity i. e. by $S_{il} = \sum_{m=-\infty}^{+\infty}\frac{v_i(-m)\,v_l(m)}{1+im\omega\tau}$ (1.19). A similar computation furnishes $q_{il} = \frac{2}{(2\pi)^3}\int d_3k\left(-\frac{df_0}{d\varepsilon}\right)\tau\frac{\varepsilon^2}{T}S_{il}$ (1.26) for the heat flux using $Q_i = \chi_{il}E_l - \xi_{il}\frac{dT}{dx_l}$ (1.24) and $\xi_{il} = q_{il} + B\chi_{il}$, $\chi_{il} = T\beta_{il}$ (1.25). The assumption that $\varepsilon(k_1, k_2, k_3) = \varepsilon(k)$ leads to the formulas

$$\sigma_{11}^i = \sigma_{22}^i = \frac{e_i}{3\pi^2}\left\langle\frac{u_i}{1+H^2u_i^2}\right\rangle$$

$$\sigma_{12}^i = -\sigma_{21}^i = \frac{e_iH}{3\pi^2}\left\langle\frac{u_i^2}{1+H^2u_i^2}\right\rangle$$

$$\sigma_{33}^i = \frac{e_i}{3\pi^2}\langle u_i\rangle \qquad (2.8)$$

Card 2/6

The theory of transport phenomena...

The index i refers to a given energy band. f is the distribution function of the charge carriers, $\xi_i = \mathcal{E}/k_0T$ and u_i implies their mobility. After a short computation with the aid of these formulas (3.10) is obtained for the Hall constant. The r_i are therein equally large only in case that the charge carriers have the same effective mass.

$$R_0 = \frac{\sum_i r_i e_i n_i \bar{u}_i^2}{[\sum_i e_i n_i \bar{u}_i]^2} = \frac{1}{\sigma^2} \sum_i r_i e_i n_i \bar{u}_i^2$$

The following holds $\overline{u_i^2} = r_i \bar{u}_i^2$. The computation of the isothermal magnetoresistivity leads to

$$\frac{\Delta\varrho}{\varrho H} = H^2 \frac{\sum_i e_i n_i \bar{u}_i \sum_i e_i S_i n_i \bar{u}_i^3 - [\sum_i e_i r_i n_i \bar{u}_i^2]^2}{[\sum_i e_i n_i \bar{u}_i]^2} \qquad (3.15)$$

$$S_i = \frac{\langle u_i^3 \rangle \langle 1_i \rangle^2}{\langle u_i \rangle^3}; \quad r_i = \frac{\langle u_i^2 \rangle \langle 1_i \rangle}{\langle u_i \rangle^2} \qquad (3.16)$$

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The theory of transport phenomena...

$$P_{NE} = \frac{1}{H} \frac{\sum_i \sigma'_{i2} \sum_i \vartheta'_{i1} - \sum_i \sigma'_{i1} \sum_i \vartheta'_{i2} + \sum_i \sigma'_{i1} \sum_i \frac{\zeta_i}{e_i T} \sigma'_{i2} - \sum_i \sigma'_{i2} \sum_i \frac{\zeta_i}{e_i T} \sigma'_{i1}}{[\sum_i \sigma'_{i1}]^2 + [\sum_i \sigma'_{i2}]^2} \quad (3.23)$$

is used for the determination of the constant of the Nernst-Ettinghausen-effect. The thermoelectric force in a transverse magnetic field is given by

$$\alpha = \frac{\sum_i \sigma'_{i1} \sum_i \left(\vartheta'_{i1} - \frac{\zeta_i}{e_i T} \sigma'_{i1}\right) + \sum_i \sigma'_{i2} \sum_i \left(\vartheta'_{i2} - \frac{\zeta_i}{e_i T}\right) \sigma'_{i2}}{[\sum_i \sigma'_{i1}]^2 + [\sum_i \sigma'_{i2}]^2} \quad (3.29)$$

The author thanks Professor Dr. L. Sosnowski for having conducted the work.
There are two non-Soviet-bloc references. The two references to English-language publications read as follows: Kane, E. O., J. Phys. Chem. Solids, 1, 249, (1957); Mc Clure, J. W., Phys. Rev., 101, 1642 (1956).

ASSOCIATION: Institute of Physics, Polish Academy of Sciences, Warsaw

SUBMITTED: Received October 25, 1960; translated paper received

Card 5/6

KOLODZIEJCZAK, J.

Electrons and holes in indium antimonide. Bul Ac Pol Mat 9 no.4: 293-298 '61.

1. Institute of Physics, Polish Academy of Sciences. Presented by L. Sosnowski.

KOLODZIEJCZAK, J.; KOWALCZYK, R.

Effective mass of holes in InSb. Acta physica Pol 21 no.4:389-398 Ap '62.

1. Institute of Physics, Polish Academy of Sciences, Warsaw.

KOLODZIEJCZAK, J.; SOSNOWSKI, L.

Thermoelectromotive force and Nernst-Ettinghausen effect in InSb.
Acta physica Pol 21 no.4:399-413 Ap '62.

1. Institute of Physics, Polish Academy of Sciences, Warsaw.

KOLODZIEJCZAK, J.

Magnetooptical effects in InSb. Acta physica Pol 21 no.6: 637-644 Je '62.

1. Institute of Physics, Polish Academy of Sciences, Warsaw.

S/262/62/000/024/001/007
A154/A126

24.3700

AUTHORS: Bartenbach, Maria, Tomczak, Zenon, Kołodziejczak, Jerzy

TITLE: In-pile thermoelectric power measurements of germanium bombarded by fast neutrons

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 24, 1962, 4, abstract 42.24.37 (Rept. Inst. badań jądrow. PAN, 1962, no. 318/1-B, 10 pp, ill.; English; summaries in Polish and Russian)

TEXT: The thermoelectric index and electrical resistance of germanium close to its intrinsic conductance were measured during fast neutron bombardment in the Świerk nuclear reactor. By comparison of the experimental and theoretical data the dependence of the thermoelectric index on the irradiation time was found. The obtained data point to the existence of four energy minima in the conductance band of germanium. There are 4 figures, 1 table and 9 references.

[Abstracter's note: Complete translation]

Card 1/1

s/058/63/000/002/054/070
A160/A101

AUTHORS: Bartenbach, Maria, Tomczak, Zenon, Kołodziejczak, Jerzy

TITLE: The measurement of the thermo-emf of germanium bombarded by fast neutrons in a reactor

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 88, abstract 2E588 ("Rept. Inst. badań jądrow. PAN", no. 318/I-B, 1962, 10 pp., illust., English; summaries in Polish and Russian)

TEXT: Simultaneous measurements were carried out of the thermo-emf and of the electric resistance near the natural conductivity in Ge subjected to bombarding by fast neutrons in a reactor. The dependence of the thermo-emf on the irradiation time was calculated and compared with the experiment on the basis of the experimental dependence of the electric conductivity on the irradiation time, and also on the basis of the thermo-emf theory. Obtained were some confirmations of the assumption regarding the presence of four minima in the conductivity zone of Ge.

[Abstracter's note: Complete translation]

Card 1/1

KOLODZIEJCZAK, J.; ZUKOTYNSKI, S.

On the transport theory for semiconductors with warped energy surfaces. Acta physica Pol 23 no.6:783-794 Je '63.

1. Institute of Physics, Polish Academy of Sciences, Warsaw, and University, Warsaw.

ACCESSION NR: AP3003529 G/0030/63/003/006/0990/1000

AUTHOR: Zukotynski, S.; Kolodziejczak, J.

TITLE: On the theory of transport phenomena in semiconductors possessing non-spherical and non-quadratic energy bands

SOURCE: Physica status solidi, v. 3, no. 6, 1963, 990-1000

TOPIC TAGS: transport phenomenon, semiconductor, nonspherical energy band, nonquadratic energy band, free carrier, magneto-optical effect, transport equation

ABSTRACT: The transport equation is solved for the case in which external magnetic and electric fields as well as temp erature concentration gradients are present. All calculations are carried out for energy surfaces of arbitrary shape. The electric current and heat flux are expressed in terms of three fundamental tensors. The case of ellipsoidal energy surfaces with a nonquadratic dependence of the energy on the absolute value of the wave vector is analyzed in detail. The transport equation is solved for an arbitrary energy

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ACCESSION NR: AP3003529

surface by using the iteration method extended to the case in which temperature and concentration gradients are present. The magneto-conductivity tensor in the case of a time-dependent electric field is derived. The results can be used with Maxwell equations to calculate all magneto-optical effects due to free carriers. Orig. art. has: 65 formulas.

ASSOCIATION: Institute of Physics, Warsaw University (Zukotynski); Institute of Physics, Polish Academy of Sciences, Warsaw (Kolodziejczak)

SUBMITTED: 04Mar63 DATE ACQ: 15Jul63 ENCL: 00

SUB CODE: PH NO REF SOV: 005 OTHER: 019

Card 2/2

KOLODZIEJCZAK, Jerzy

International Congress of the Physics of Semiconductors, Paris, July 19-20, 1964. Nauka polska 13 no.1:131-132 Ja-F '65.

1. Institute of Physics of the Polish Academy of Sciences, Warsaw. Submitted September 1964.

L 00871-67 T/EWP(t)/ETI IJP(c) JD/AT

ACC NR: AP6024356 SOURCE CODE: GE/0030/66/016/001/K055/K058

42
41

AUTHOR: Kołodziejczak, J.; Zukotyński, S.

B

ORG: [Kołodziejczak] Institute of Physics, Polish Academy of Sciences; [Zukotyński] Institute of Physics, Warsaw University, Warsaw

17

TITLE: The effect of higher bands on the effective masses in InSb and InAs

SOURCE: Physica status solidi, v. 16, no. 1, 1966, K55-K58

TOPIC TAGS: antimonide, arsenide, indium compound, semiconductor band structure

ABSTRACT: In their previous paper (J. Kolodziejczak, S. Zukotynski, and H. Stramska, phys. stat. sol. 14, 471, 1966), the authors calculated the effective masses using the most recent results forthe band parameters of the fourth group of semiconductors, taking into account the linear terms in the energy of heavy holes. However, they made a mistake in the definition of the band parameter M. In the present paper, the proper definition of this parameter is given as

$$M = -\frac{Q^2}{\epsilon(\Gamma_{15c}) - \epsilon(\Gamma_{15v})}$$

Tables of the corrected numerical values of the effective masses are given. Effective

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L 00871-67
ACC NR: AP6024356

masses of electrons obtained experimentally for high electron concentrations in InSb and InAs were compared with the authors' calculations, and a satisfactory agreement was found. At very high concentrations, the effect of higher band interactions does not fully explain the observed strong increase of the effective mass; the band structure is thought to be affected by impurities. Authors express their gratitude to Prof. Dr. I. M. Tsidilkovskiy for pointing out the mistake in their previous paper and for his interest in their calculations. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 10Jun66/ OTH REF: 014
SOV REF: 005

LS
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TITLE: Free carrier electrooptical Kerr effect in semiconductors

SOURCE: Physica status solidi, v. 19, no. 1, 1967, K55-K58

TOPIC TAGS: Kerr effect, electrooptic effect, semiconductor carrier

ABSTRACT: The electrooptic Kerr effect in semiconductors was calculated on the basis of a theory of free-carrier electromagnetooptic effects developed by J. Kolodziejczak and H. Stramska (Phys. stat. sol. 17, 701 (1966)) and J. Kolodziejczak and E. Kierzek-Pecold (Phys. stat. sol. (in printing)). In the case of free carriers, the Kerr effect is associated with birefringence due to the strong dc electric field applied to the specimen. The formulas for the phase shift ϕ and the dichroism δ were derived. They show that the phase shift is proportional to $1/\omega^3$, while the dichroism consists of two terms, the first one proportional to $1/\omega^4$ and the second one proportional to $1/\omega^2$, where ω is the frequency of the electromagnetic wave. For a parabolic band, the second term vanishes. Thus, the frequency dependence of the dichroism δ can be the criterion of the nonparabolicity of the band. [JA]

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POLAND/Atomic and Molecular Physics. Heat. D

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22405

Author : Dorabialska, Alitja; Kolodziejczak, Karol

Inst : Polytechnic Institute, Faculty of Physical Chemistry, Lodz, Poland

Title : Application of the Dynamic-Adiabatic Method to the Measurement of Variable Thermal Effects.

Orig Pub : Zesz. nauk. Politechn. lodzkiej, 1958, No 22, 69-78

Abstract : A method is based on the heat-exchange equation, developed by Lazniewski (Lazniewski M., Sugier, H., Zeszyty Naukowe Pl. Chemia, 1954, No 1, 19) and represents a combination of the dynamic method of Lazniewski and of the adiabatic method of Swietoslawski and Dorabialska (Swietoslawski W., Dorabialska A., Roczniki Chem. 1927, 7, 559). First dynamic measurements are performed at an

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measured the following: 1) the ... mal effect of the reaction of ethyl lucigenin with H_2O_2 and alcohol in an alkaline solution, and 3) the heat of hydratation of bentonite. It is shown that this method gives good accuracy along with great simplicity.

OLPINSKI, Wojciech, doc. dr.; KOLODZIEJCZYK, Bogdan, mgr inz.
URBANSKI, Henryk, mgr inz.; STRZELECKI, Boleslaw, inz.

Ways of tightening the sidewalls of dog headings and fire hazard dams. Wiadom gorn 15 no. 6:196-199 Je '64.

BAKWIK-SCHRAMM, Alicja; KOLODZIEJCZYK, Adam

Behavior of adenosine triphosphoric acid (ATP) in the blood of rheumatic patients. Reumatologia (Warsz.) 3 no.2:111-115 '65.

1. Z Instytutu Reumatologicznego, Oddzial w Krakowie (Kierownik Oddzialu: prof. dr. A. Sokolowski).

BUNSCH-WELKENS, Krystyna; KOLODZIEJCZYK, Adam; oraz wspolpracownicy: HOMA, A.; WOJTOWICZ, A.

Seromucoid level of the blood serum as an index of the acute inflammatory phase in chronic rheumatic diseases. Reumatologia (Warsz.) 3 no.3:237-244 '65.

1. Z Instytutu Reumatologicznego, Oddzial w Krakowie (Kierownik: prof. dr. med. A. Sokolowski).

CHYBOWSKI, Bohdan, inz.; KAMLER, Witold, prof. mgr inz.;
KOLODZIEJCZYK, Leon, doc. dr inz.; MASZCZYNSKI, Edward, mgr inz.

Problem of using liquid fuels for central heating systems in Poland. Gaz woda techn sanit 37 no.4/5:118-123 Ap-My '63.

KOLODZIEJCZYK, Leon; GORALSKI, Andrzej

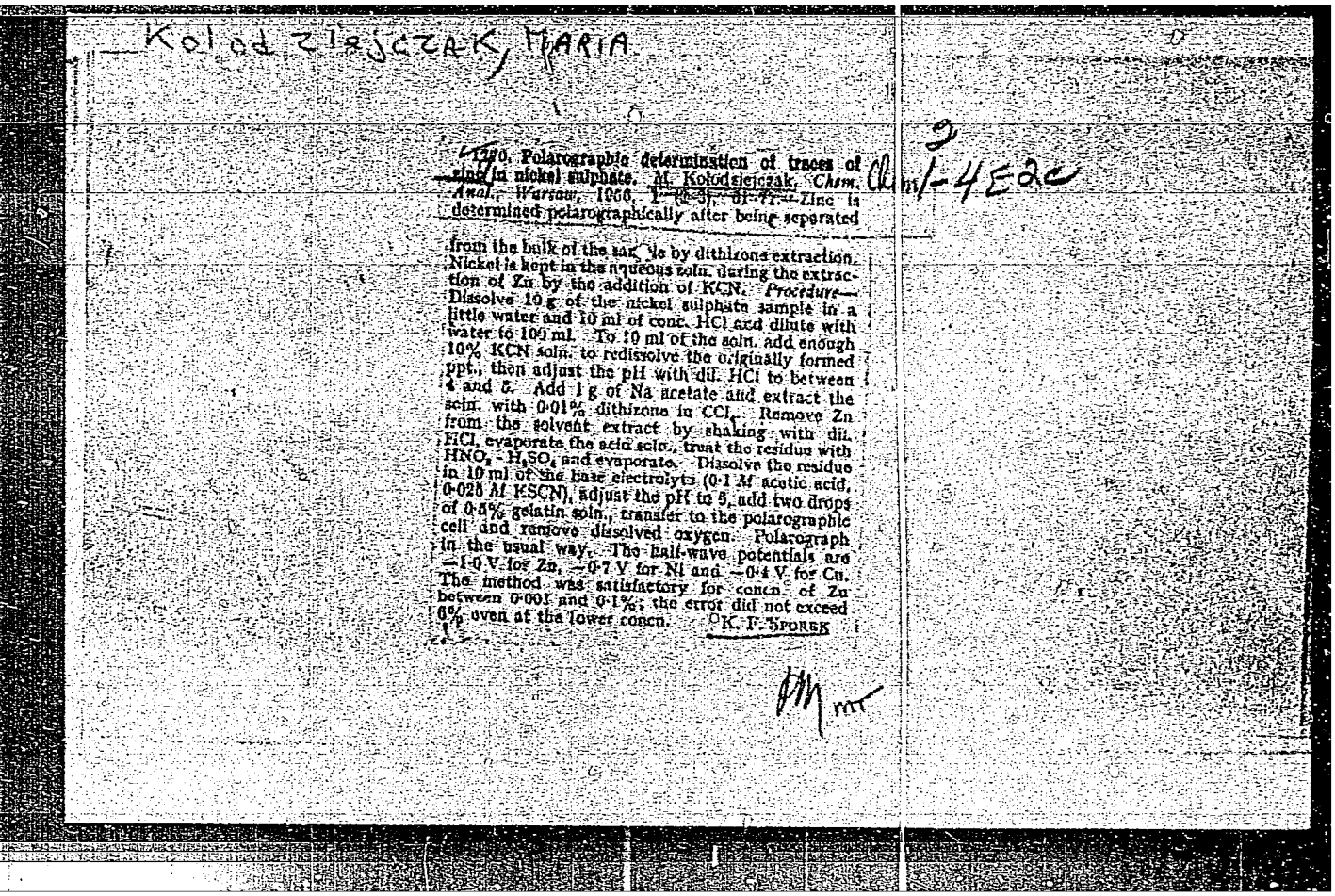
Influence of the architectonic and urban characteristics of a city development on the thermal losses and geometric structure of a heating network. Gaz woda techn sanit 37 no.6:188-192 Je '63.

1. Technical University, Warsaw.

KOLODZIEJCZYK, Leon; GORALSKI, Andrzej

Dependence of thermal losses of the network on the density of the heat demand. Gaz woda techn sanit 37 no.12:396-398 D '63.

1. Technical University, Warsaw.



KOLODZIEJCZAK, MARIA

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Chem 1-4E2c

1390. Polarographic determination of traces of zinc in nickel sulphate. M. Kołodziejczak. *Chem. Anal., Warsaw*, 1960, 5 (2), 361-71.—Zinc is determined polarographically after being separated from the bulk of the sample by dithizone extraction. Nickel is kept in the aqueous soln. during the extraction of Zn by the addition of KCN. *Procedure*—Dissolve 10 g of the nickel sulphate sample in a little water and 10 ml of conc. HCl and dilute with water to 100 ml. To 10 ml of the soln. add enough 10% KCN soln. to redissolve the originally formed ppt., then adjust the pH with dil. HCl to between 4 and 5. Add 1 g of Na acetate and extract the soln. with 0·01% dithizone in CCl_4. Remove Zn from the solvent extract by shaking with dil. HCl, evaporate the acid soln., treat the residue with HNO_3 - H_2SO_4 and evaporate. Dissolve the residue in 10 ml of the base electrolyte (0·1 *M* acetic acid, 0·02 *M* KSCN), adjust the pH to 5, add two drops of 0·5% gelatin soln., transfer to the polarographic cell and remove dissolved oxygen. Polarograph in the usual way. The half-wave potentials are −1·0 V for Zn, −0·7 V for Ni and −0·4 V for Cu. The method was satisfactory for concn. of Zn between 0·001 and 0·1%; the error did not exceed 6% even at the lower concn. K. F. Sporek