

Study of X-ray-opaque compounds. ...

S/081/62/000/024/041/073
B101/B186

0.015 moles $\text{HOOC}(\text{CH}_2)_4\text{COOH}$ in 40 ml $\text{C}_6\text{H}_5\text{Cl}$. The mixture is heated for 2 hrs, cooled to 60°C , and mixed with 0.02 moles I. It is then boiled for 3 hrs and cooled again, whereupon II is separated and purified on NH_4 or Na salt. The compounds II are given, also their gross formulas, yield in %, and m.p. in $^\circ\text{C}$: (a) $\text{C}_{20}\text{H}_{20}\text{O}_6\text{N}_2$, 18.2, 210-220; (b) $\text{C}_{20}\text{H}_{18}\text{O}_6\text{N}_2\text{I}_2$, 78.6, 243-246 (decomp.); (c) $\text{C}_{20}\text{H}_{16}\text{O}_6\text{N}_2\text{I}_4$, 67.5, 245-247 (decomp.); (d) $\text{C}_{20}\text{H}_{20}\text{O}_6\text{N}_2$, 85.9, 304-306 (decomp.); (e) $\text{C}_{20}\text{H}_{18}\text{O}_6\text{N}_2\text{I}_2$, 70.7, 248-250 (decomp.); (f) $\text{C}_{20}\text{H}_{18}\text{O}_6\text{N}_2\text{I}_2$, 88.1, 273-274 (decomp.); (g) $\text{C}_{20}\text{H}_{14}\text{O}_6\text{N}_2\text{I}_6$, 90.3, 328-328.5 (decomp.); (h) $\text{C}_{20}\text{H}_{20}\text{O}_6\text{N}_2$, 83.3, 350; (i) $\text{C}_{20}\text{H}_{18}\text{O}_6\text{N}_2\text{I}_2$, 95.9, 291-293 (decomp.); (k) $\text{C}_{20}\text{H}_{16}\text{O}_6\text{N}_2\text{I}_4$, 64.2, 303-305 (decomp.). Communication IV see RZhKhim, 1962, 23Zh119. [Abstracter's note: Complete translation.]

✓

Card 2/2

RACZKA, Alicja; SWIRSKA, Alicja; BOJARSKA-DAHLIG, Halina

Studies on the synthesis of 1-(*m*-aminophenyl)-2-pyridone
and similar derivatives with a possible psychotropic effect.
Acta pol. pharm. 20 no.2:155-167 '63.

1. Z Zakladu Syntezy I Instytutu Farmaceutycznego w Warszawie
Kierownik Zakladu: doc. dr H. Bojarska-Dahlig.
(PYRIDINES) (CHEMISTRY, PHARMACEUTICAL)
(PSYCHOPHARMACOLOGY)

SWIRSKA, Alicja

Studies of the Pharmaceutical Institute in Warsaw on the
synthesis of furan drugs. Farmacja Pol 20 no.1/2:22-27
25 Ja'64.

1. Zaklad Syntezy I Instytutu Farmaceutycznego, Warszawa.

SWIRSKA, Alicja

Studies on 2-furfural derivatives with substitutes in the 5th position with possible pharmacological properties. Acta Pol. pharm. 21 no.1:109-110 '64.

1. Z Zakładu Syntezy I Instytutu Farmaceutycznego w Warszawie (Kierownik: Prof. dr H. Bojarska-Dahlig).

SWIRSKI, Z.

"Water Erosion and its Economic Significance", P. 2. (GAZETA OBSERWATORA,
Vol. 7, No. 6, June 1954, Warszawa, Poland)

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

SWIRSKI, Z.

"Measuring River Silt", P. 2. (GAZETA, OBSERWATORIA, Vol. 7, No. 8, Aug. 1954, Warszawa, Poland)

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

CHODECKA- SKALINSKA, Halina; SWIRSKI, Zbigniew

Third Congress of the Ornithological Section of the Polish
Zoological Society, Torun, September 3-5, 1962. Przegl
zoolog 7 no. 1:115 '63.

WROBLEWSKA-MULARCZYKOWA, Zofia; TAYTSCH, Zofia Florentyna; PRZESMYCKI, Feliks; SWIRSKI Zbigniew; OLKOWSKA, Danuta; SWOBODZINA, Ewa.

A search for arborviruses previously not known to occur in Poland. V. A preliminary study of the routes of invasion of new arborviruses in this country. Przegl. epidem. 18 no.4: 411-417 '64.

SWISS, M.

Second exhibition of chemical engineering in London. Chemik
15 no.12:445-448 D '62.

SWISTAK, R.

Solid lubricants from petroleum and other materials. p. 131

Wiadomosci Naftowe. (Stowarzyszenie Naukowo-Techniczne Inzynierow i
Technikow Przemysly Naftowego i Zwiazke Zawodowego Gornikow Naftowcon)
Krosno, Poland Vol. 5, no. 6, June 1959

Monthly list of East European Accessions (EEAI) LC, Vol./no. 2,
Feb. 1960.

Uncl.

SWISTAK, Roman

Petroleum as raw material for the production of surface active substances. Wiad naft 7 no.6:127-130 Je '61.

(Petroleum) (Surface chemistry)

SWISTAK-LEWANDOWSKA, Janina; GRZOMA, Malgorzata

Case of generalized tuberculosis complicated by staphylococcal pneumonia,
Pediat. polska 32 no.7:418-823 July 57.

1. Z I Kliniki Pediatricznej A. M. we Wrocławiu Kierownik: prof dr med.
H. Hirszfeldowa i z Zakładu Anatomii Patologicznej A. M. we Wrocławiu
Kierownik: prof. dr med Z. Albert. Adres: Wrocław, ul. Hoene Wrońskiego 13c,
I Klinika Pediatria AM.

(TUBERCULOSIS, in inf. & child
with micrococcal pneumonia (Pol))
(MICROCOCCAL INFECTIONS, in inf. & child
pneumonia with generalized tuberc. (Pol))

SWISTUN, K. Dr.

Excessive and unreasonable burdening with statistical and reporting work in public health. Zdrowie pub., Warsz. No.3:169-180 May-June '55.

(PUBLIC HEALTH

in Poland, excessive statist. & reporting work)

SWISZCZ, Aleksander

Jan J. Trzebinski. Polski tygod.lek.10 no.50:1632 12 Dec. '55.

(OBITUARIES,

Trzebinski, Jan J.)

SWISZCZ, Aleksander

~~Myocardial infarction~~ without signs of sympatheticotonia. Polski tygod.
lek. 13 no.21:800-801 26 May 58.

1. (Z Oddziału Kardiologicznego Szpitala Miejskiego Nr 1 w Warszawie;
kierownik: prof. dr med. Julian Walawski) Adres: Warszawa, ul. Kasprzaka
17 Szpital Miejski Nr 1, Oddział Kardiologiczny.

(MYOCARDIAL INFARCT, case reports

without sympatheticotonia, ECG manifest. (Pol))

(ELECTROCARDIOGRAPHY, in various dis.

myocardial infarct without sympatheticotonia, case report (Pol))

SwiT, ALFRED

POLAND/Electricity - Semiconductors

G-3

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 8604

Author : ~~SwiT~~ Alfred

Inst : Not Given

Title : Methods of Measuring the Lifetime of Minority Carriers in Germanium.

Orig Pub : Zesz. nauk. Politechn. warz., 1957, No 33, 5-20

Abstract : Survey of methods measuring the lifetime in germanium.

Card : 1/1

SWIT, A.

Radiation converter. Bul Ac Pol Tech 8 no.8:459-465 '60. (EEAI 10:6)

1. Department of Radiotechnics, Warsaw Technical University.
Presented by J.Groszkowski.
(Image intensifiers)

L 9025-66 EWT(d)/EWT(1)/EWT(m)/EEC(k)-2/T/EWP(t)/EWP(b)/EWA(h)/EWA(c) IJP(c)
 ACCESSION NR: AP5014977 JD/AT PO/0095/65/013/003/0249/0256

AUTHOR: ^{44, 55} Svit, A. (Svit, A.)

TITLE: Measurement of diffusion length in semiconductor wafers

SOURCE: Polska Akademia Nauk. Bulletin. Serie des sciences techniques, v. 13,
 no. 3, 1965, 249-256

TOPIC TAGS: semiconductor, minority carrier, SEMICONDUCTOR THEORY, SEMICONDUCTOR
RESEARCH

ABSTRACT: The author discusses the measurement of effective diffusion length in a thin semiconductor plate (wafer). By thin is meant one the thickness (W) of which is considerably smaller than its other dimensions, and also smaller than the volume diffusion length of minority carriers. It is assumed that such a wafer is two-dimensional, that the generation region of the carriers is a light ring type region and that in the wafer there is a stationary distribution of excess carriers. Theoretically, the concentration distribution of excess minority carriers in the region of the non-illuminated circle, located in the center of the light ring is determined for this particular case. A method for determining the effective diffusion length for minority carriers in a non-illuminated region is given. The idea

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ACCESSION NR: AP5014977

of designing a measuring instrument is advanced. The results of measuring concentration distribution of minority carriers in the investigated n-type germanium wafer and an example of computing the effective diffusion length of those carriers, are also given. The concentration of excess carriers in the experimentally investigated wafers is compared with related theoretical data. Orig. art. has: 5 figures, 1 table, and 3 references.

ASSOCIATION: Katedra przyrzadow elektronowych, Politechnika, Warsza (Department of Electron Devices, Polytechnic University)

SUBMITTED: 00

44,55
ENCL: 00

SUB CODE: 20

NO REF SOV: 000

OTHER: 003

Card 2/2 pu

SWIT, Alfred

The semiconductor radiation converter. Przegl elektroniki 3
no.6:342-348 Je '62.

1. Katedra Radiotechniki, Politechnika, Warszawa.

PACZKOWSKI, Bohdan; SWIT, Alfred; WOJCIECHOWSKI, Jerzy; WIERZBA, Henryk

Double-layer semiconductor image converter. Przegl elektroniki 4
no.8:459-461 Ag '63.

1. Katedra Radiotechniki, Politechnika, Warszawa.

PASZKOWSKI, B.; SWIT, A.; WOJCIECHOWSKI, J.; WIERZBA, H.

Two-layer solid-state image converter. Bul. Ac. Pol. tech. 11.
no. 5: 259-262 '63.

1. Chair of Electronic Devices, Technical University, Warsaw.
Presented by J. Groszkowski.

SWIT, Alfred

Measurement of He-Ne gas laser output power by a semiconductor photodiode. Przegl elektroniki 5 no.7:320-325 J1 '64.

1. Department of Electronic Instruments, Technical University, Warsaw.

L 19499-65 EWT(m)/EWP(b)/EWP(t) ASD(a)-5/RAEM(a)/IJP(c) JD
ACCESSION NR: AP4049592 P/0019/64/013/003/0677/0686

AUTHOR: Swit, A.

TITLE: Germanium photodiodes in push-pull and an electroluminophorous cell as converter of infrared to visible radiation

SOURCE: Archiwum elektrotechniki, v. 13, no. 3, 1964, 677-686

TOPIC TAGS: germanium photodiode, photodiode, push pull connection, electroluminophorous cell, infrared converter, infrared radiation converter, visible radiation, electronic device

ABSTRACT: The properties of an infrared-to-visible radiation converter consisting of two germanium photodiodes in push-pull and an electroluminophorous ZnS cell are studied. The direct interaction of the components fed by rectangular pulses of alternating voltage is analyzed by assuming that both photodiodes have identical properties and are illuminated by the same radiation flux. The theoretical and real transmission characteristics of an ideal and real converter are calculated and compared. The results are considered satisfactory in spite of the discrepancies between the values. It is concluded that the converter

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ACCESSION NR: AP4049592

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under study permits maximum utilization of the electroluminophorous cell if the permissible blocking voltage of the photodiodes is sufficiently high, and that the converter requires a relatively large radiation flux for illuminating the inlet. "The author thanks Prof. Dr. J. Groszkowski for valuable comments and Prof. B. Paszkowski for suggestions regarding the application of this type of converter." Orig. art. has: 12 formulas and 10 figures.

ASSOCIATION: Katedra Przyrzadow Elektronowych Politechnik: Warszawskiej;
(Department of Electronic Devices, Warsaw Polytechnic)

SUBMITTED: 7Jan64

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 002

Card 2/2

L 21436-15 EWT(1)/ENG(k)/EEG(t)/T/EEG(b)-2/EED(b)-3/EWA(h) Pz-6/Feb/
PI-4 INF(c)/ASD(a)-5/SSD/AFWL/ASD(m)-3/AS(mp)-2/AFMD(c)/RAEH(e)/ESD(ga)/
ESD(t) P/0019/61/013/002/0247/0280 4/5
ACCESSION NR: AP4043935 43
8

AUTHOR: Swit, A.

TITLE: Germanium photodiode and electroluminescent element as a new converter
of infrared to visible radiation

SOURCE: Archivum elektrotechniki, v. 13, no. 2, 1964, 247-280

TOPIC TAGS: germanium photodiode, photodiode, germanium, electroluminescence,
zinc sulfide, infrared converter, transmission characteristic, differential
sensitivity

ABSTRACT: This paper investigates the properties of a converter of infrared to
visible radiation consisting of a germanium photodiode and an electroluminescent
ZnS element fed by rectangular voltage pulses. A detailed analysis of the di-
rect interaction of the elements make it possible to determine the transission
characteristic, the differential sensitivity, the minimum increment of input
radiation flux detectable by the converter, and the relative spectrum character-
istic of the converter. The results are compared with those obtained for an actual
converter, and the reasons for the divergencies explained. Results of measuring
the converter transients are also included. The paper ends with a brief survey

Cord 1/2

L 21436-65
ACCESSION NR: AP4043935

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of the converter's application and the possibility of building an array consisting of a set of elementary converters. "In conclusion the author expresses thanks to Prof. Dr. J. Groszkowski for his many valuable ideas and comments, which were of great help in carrying out this work." Orig. art. has: 23 formulas and 28 figures.

ASSOCIATION: Katedra Przyrzadów Elektronicznych Politechniki Warszawskiej
(Department of Electronic Devices, Warsaw Engineering College)

SUBMITTED: 13 Jan 64

ENCL: 00

SUB CODE: OP, EM

NO REF SOV: 002

OTHER: 000

Card 2/2

SWIT, A.

Germanium photodiodes in push-pull and an electroluminophorous cell as a converter of infrared to visible radiation. Archiw elektrotech 13 no.3:677-686 '64.

1. Department of Electronic Instruments of the Technical University, Warsaw.

L 33959-65 EEO-2/EWT(1)/EWT(m)/EWP(t)/EED-2/EWP(b) Pn-4/Pae-2/P1-4 IJP(c)
 CC/JD
 ACCESSION NR: AP5105862 P/0053/65/000/001/0041/0049

AUTHOR: Pażkowski, B.; Rudowski, G.; Swit, A.

TITLE: PbTe infrared radiation detector 25B 32

SOURCE: Przegląd elektroniki, no. 1, 1965, 41-49 B

TOPIC TAGS: irradiation detector, lead telluride detector, photoconductive detector

ABSTRACT: PbTe infrared radiation detectors prepared by a modified version of the Young method were investigated. PbTe layers were deposited on a glass base through an evaporation process in an oxygen-atmosphere electric furnace. Photoelectric sensitivity, noise equivalent power, normalized detectivity, and relative spectral sensitivity of the specimens were determined following cooling with liquid nitrogen. The dark resistance was lower and photoelectric sensitivity higher with increased oxygen pressure during the evaporation process. Heating of the deposited layer in vacuum below 550K increased the dark resistance, photoelectric sensitivity, and long-wave sensitivity threshold. Sensitivity with regard to blackbody radiation at 500K approached 7000 v/w; normalized detectivity (500K, 500 cps, 1 cps) was approx 2×10^8 (cps)^{1/2} cm²/w; the long-wave sensitivity threshold was 5-5.8 μ . Orig. art. has: 11 figures and 1 table. [KM]

Card 1/2

L 33959-65

ACCESSION NR: AP5005862

ASSOCIATION: none

SUBMITTED: 00

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SUB CODE: CB, NP

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OTHER: 011

ATD PRESS: 3209

Card 2/2

L 49221-65

ACCESSION NR: AP5010644

2

the substrate by heating the shield; the substrate is then held at a temperature of 40—80C. In the second method (Fig. 1, b), PbTe is evaporated directly onto the substrate in an atmosphere of oxygen without heating or cooling the substrate. In both methods, air is admitted after evaporation and then pumped out prior to sealing. In the third method, (Fig. 2), two-stage evaporation is also employed, but in this case air is not admitted. Further details of these methods are described in the paper. The methods for the measurement of photoelectric sensitivity, noise equivalent power (NEP), standardized detectivity (D^*) and relative spectral sensitivity are given. Figs. 3, 4, and 5 of the Enclosure show some of the results obtained. It has been observed that PbTe layers show lower dark resistance and higher photoelectric sensitivity if the oxygen pressure in the apparatus during the course of evaporation is higher. Moreover, heat treatment (soaking) of PbTe layers in a vacuum changes their dark resistance, photoelectric sensitivity and long-wave sensitivity threshold. The parameters of the obtained detectors are as follows: sensitivity related to the black body radiation at a temperature of 500K, 7000 v/watt; standardized detectivity D^* (500K, 500 cps, 1cps), up to 2×10^8 (cps) $^{1/2}$ cm/watt; long-wave sensitivity threshold, 5-5.8 μ . These parameters were measured after cooling the sensitive layer of the detector with liquid nitrogen. Other parameters of the detectors are shown in a table. The detectors are currently used in the Instytut Podstawowych Problemow Techniki PAN (Institute of the Fundamental Problems of

Card 2/7

L 49221-65

ACCESSION NR: AP5010644

Technology, PAN) and the authors' department for the measurement of radiation absorption in various materials (e.g., glass, germanium). Orig. art. has: 12 figures, 1 table and 3 formulas. [08]

ASSOCIATION: Katedra Przyrzadow Elektronowych Politechniki Warszawskiej (Department of Electronic Instruments, Warsaw Polytechnic Institute)

SUBMITTED: 01Jun64

ENCL: 04

SUB CODE: OP, DC

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OTHER: 011

ATD PRESS: 4005

Card 3/7

L 62123-65 EWT(1)/EWT(m)/I/EWP(t)/EWP(b)/EWA(h) Pz-6/Peb IJP(c) JD
 ACCESSION NR: AP5018531 PO/0095/65/013/004/0387/0395

AUTHOR: Swit, A. (Svit, A.) 38

TITLE: Measurement of diffusion length of minority carriers in the region of a semiconductor wherein the carriers are generated

SOURCE: Polska Akademia Nauk. Bulletin. Serie des sciences techniques, v. 13, no. 4, 1965, 387-395

TOPIC TAGS: diffusion length, minority carrier, semiconductor, germanium, density distribution, diffusion, transport phenomena 21

ABSTRACT: A method is proposed for measuring the diffusion length of minority carriers in the region in which they are generated in thin semiconductor wafers. A thin wafer is defined as a wafer whose thickness is considerably smaller than its other dimensions and considerably smaller than the volume diffusion length. It is assumed that, mathematically, such a plate may be treated as a two-dimensional case and that the region where minority carriers are generated has a circular shape. The distribution of the minority carrier density in the region where they are generated (f) is calculated. Methods based on experimental measurements of f are described

Card 1/2

L 62123-45

ACCESSION NR: AP5018531

for determining the effective diffusion length. The device used in the experiments is described and experimental results are given for n-type Ge wafers. Orig. art. has: 20 formulas and 2 figures. [CS]

ASSOCIATION: Katedra Przyrzadow Elektronowych, Politechnika, Warsaw (Department of Electron Devices, Technical University)

SUBMITTED: 00

ENCL: 00

SUB CODE: SS

NO REF SOV: 000

OTHER: 013

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Card 2/2

L 62949-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(t)/EWA(h) IJP(c) JD/AT

ACCESSION NR: AP5018389

PD/0019/65/014/002/0385/0399
621.315.59:537.31

AUTHOR: Braclawski, K.; Swit, A.

TITLE: Measurement of the effective diffusion constant and the lifetime of minority carriers in the surface layer of germanium using the moving light beam method

SOURCE: Archiwum elektrotechniki, v. 14, no. 2, 1965, 385-395

TOPIC TAGS: germanium, minority carrier, diffusion constant, surface layer, surface recombination, semiconductor

ABSTRACT: The paper describes the application of the moving light beam method to the measurement of the diffusion constant and the lifetime of minority carriers in germanium. On the basis of a modified theory, the experimental values are in good agreement with the theoretical values and indicate that the diffusion constant D and the lifetime τ characterize these constants in the surface layer and not in the bulk of the material. The measurement setup, shown in Fig. 1 of the Enclosure, is described. The surface distribution of minority carrier concentration is determined by means of a probe consisting of a point-contact diode formed on the surface after the point contact is subjected to a forming process. The measurements of D , τ , and the diffusion length L were made using n-type

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ACCESSION NR: AP5018389

germanium. It is shown that the measured value of the diffusion constant depends on the state of the surface and the bulk lifetime and that the method used gives diffusion lengths which agree well with those measured using the Valdes method. Furthermore, the diffusion constant increases with increasing bulk lifetime when the state of the surface is kept unchanged. It also increases with increasing surface recombination velocity with unchanged bulk lifetime. Moreover, the diffusion constant always exceeds the "bulk diffusion constant". The lifetime as measured by the method employed is always smaller than the bulk lifetime of the sample. A phenomenological interpretation of the obtained results is given, based on the concept of the so-called internal diffusion in an inhomogeneous semiconductor consisting of regions having different lifetimes. "The authors thank Eng. S. Dobrzynski for his help in the development of the measurement instruments. Orig. art. has: 14 figures, 2 tables and 23 formulas. [08]

ASSOCIATION: Katedra Przyrzadow Elektronowych Politechniki Warszawskiej (Department of Electronic Instruments, Warsaw Polytechnic Institute)

SUBMITTED: 26Oct64

ENCL: 01

SUB CODE: SS

NO REF SOV: 001

OTHER: 002

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L 62949-65

ACCESSION NR: AP5018389

ENCLOSURE: 01

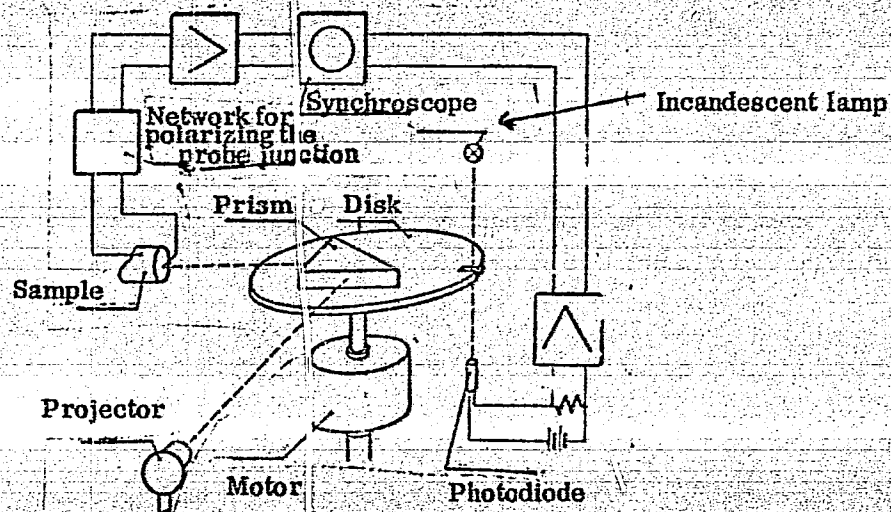


Fig. 1. Schematic of the measurement setup

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L 22999-66 T/EWP(t)/EWA(h) IJP(c) JD/AT

ACC NR: AT6009307

SOURCE CODE: PO/2516/65/000/044/0005/0062

AUTHOR: Swit, Alfred (Doctor)

55
B+1

ORG: Chair of Electrical Instruments, Department of Communication, Polytechnical Institute, Warsaw (Katedra Przyrzadów Elektronowych, Wydziału Łączności, Politechniki Warszawskiej)

TITLE: Measurements of the effective diffusion length of minority carriers in thin semiconductor wafers

SOURCE: Warsaw. Politechnika. Zeszyty naukowe, no. 127, 1965. Elektryka, no. 44, 5-62

TOPIC TAGS: diffusion length, minority carrier, hole concentration, photoresponse, decay method, recombination velocity, germanium semiconductor, semiconductor device

ABSTRACT: Measurements of excess diffusion length of minority carriers in thin semiconductor wafers are discussed. In the cases under consideration, a wafer is assumed to be thin when its thickness W is considerably smaller than its other dimensions and when its thickness is considerably smaller than the bulk diffusion length of the excess minority carriers. Considerations are carried out for the stationary distributions of hole concentrations in thin wafers of the n-type semiconductor. An approximative physical model of a thin wafer is discussed, and it is assumed that for such wafers a two dimensional approach is applicable. Diagrams are given

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L 22999-66

ACC NR: AT6009307

involved are given. In the appendix results of an investigation concerning the influence of a point-contact collector action on measuring results are reported. It is shown that in conditions, properly chosen, and in practice, easily obtainable, distortions due to the collector action are negligible. Orig. art. has: 2 tables, 17 figures, and 60 formulas. [Author's abstract.] [KS]

SUB CODE: 20/ SUBM DATE: 11Nov65/ ORIG REF: 004/ OTH REF: 011/ SOV REF: 003/

Card

3/3 *pla*

SWITAJ, W. ; TUSZYNSKI, J.

Polishing thread-measuring instruments. p. 10.
MECHANIK, Warazawa. Vol. 28, no. 1, Jan. 1955.

SOURCE:

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

SWITAL, W.

Simplified measuring of taper threads. p. 634

Mechanik Warszawa, Poland Vol. 32, no.8, Aug. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2,
Feb. 1960
Uncl.

BAUER, Jakub; SWITALA, Maria

Induction of labor by means of endovenous drip infusion of
syntocyn OTS-68. Gin.polska 30 no.5:517-525 S-0 '59.

1. Z Oddziału Położniczo-Ginekologicznego Szpitala Miejskiego
w Katowicach Ordynator: dr med. J. Bauer.
(OXYTOCIN ther)

SWITALA, Maria

Our observations on forceps deliveries conducted during the period of 1955-1959. Ginek. pol. 33 no.6:819-828 '62.

1. Z Oddzialu Polozniczo-Ginekologicznego Szpitala Miejskiego nr 6
w Katowicach Ordynator: dr med. J. Bauer.
(OBSTETRICAL FORCEPS) (DELIVERY)

SWITALA, Tadeusz

'The International Poznan Fair, a market without barriers; an interview with Stefan Askanas, Executive President of the International Poznan Fair. Przegl techn no. 23/24:1,3 17 Je '62.

SWITALA, Tadeusz

A jubilee of the Polish Fair in Poznan. Przegl techn no.37:2
16 S '62.

SWITALSKA, A.; ZAKRZEWSKA, A.

Determination of phospholipase C (Cl. perfringens Type A).
Activity by diffusion in agar gel with lecithin. Bul Ac Pol
biol 10 no.3:79-81 '62.

1. Department of Control of Sera and Vaccines, State Institute
of Hygiene, Warsaw. Presented by E.Mikulaszek.

*

SWITALSKA, Alicja

Use of glucose and fructose by Clostridium tetani. Med. dosw. mikrob.
14 no.1:35-50 '62.

1. Z zakładu Badania Surowic i Szczepionek PZH w Warszawie Kierownik:
prof. dr. H. Meisel.
(CLOSTRIDIUM TETANI metab) (GLUCOSE metab)
(FRUCTOSE metab)

MEISEL, Henryk; ALBRYCHT, Henryka; RYMKIEWICZ, Danuta; SWITALSKA, Alicja;
TREMBOWLER, Paulina

Studies on Clostridium botulinum type E. I. A strain isolated
in Poland. Med. dosw. mikrobiol. 16 no.3:193-200 '64.

Studies on Clostridium botulinum E. II. Culture media from
toxin production. Ibid.:201-206

1. Z Zakladu Badania Surowic i Szczepionek Panstwowego
Zakladu Higieny w Warszawie (Kierownik: prof. dr H. Meisel).

MEISEL, Henryk, prof. dr.; ALBRYCHT, Henryka; RYMKIEWICZ, Danuta; SWITALSKA,
Alicja; TREMBOWLER, Paulina.

Studies on Clostridium type E. III. Production of highly active
toxic botulinum antigens in cellophane bag cultures. Med. dosw.
mikrobiol. 16 no.4:323-330 '64

1. Z Zakładu Badania Surowic i Szczepionek Państwowego Zakładu
Higieny w Warszawie.

POLAND

SWITALSKA, Alicja; TREMBOWLER, Paulina; and MEISEL, Henryk; Institute
for Control of Sera and Vaccines, National Institutes of Health
(Zaklad Badania Surowic i Szczepionek PZH), Warsaw.

"Immunogenic Properties of Type E Botulinum Toxoid."

Warsaw, Medycyna Doswiadczalna i Mikrobiologia, Vol 17, No 4, 1965;
pp 305-311.

Abstract [English summary modified]: Study of 2 strains of *Clostridium*
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guinea pigs, mice and rabbits. the latter, activation made no
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1. Department of Hydraulic Machines of Wroclaw Technical
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L 4961-66 EWP(t)/EWP(b) IJP(c) CC/JD

ACC NR: AP5026672

PO/0053/65/000/010/0488/0490
621.389

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B

AUTHOR: Swoboda, J.; Swiderski, J.

TITLE: Specific resistance and diffusion length as the criteria for choosing material for infrared germanium detectors

SOURCE: Przegląd elektroniki, no. 10, 1965, 488-490

TOPIC TAGS: IR detection material, IR detection element, germanium optic material, photoelectric property

ABSTRACT: The paper refers to a previously published investigation (Majewski Z., Ambroz-
iak A., Swiderski, J.: Przegl. Elektroniki, 4, 1963) pertaining to the development of an in-
frared detector using gold-doped germanium. The material was cut into plates intended for
photoresistors; the plates were selected from the standpoint of their spectral characteristic
at 77K. The plates differed among themselves because of the different gradient of gold inside
them and the presence of some unknown impurities. The specimens tested in this manner are
divided into four groups of different (at 77K) spectral characteristics, resistance, and diffu-
sion length of excess current carriers. Examples of the spectral characteristic of photoelec-
tric conductivity for the 4 groups are shown in Fig. 1 of the Enclosure and the corresponding
temperature characteristics of resistance are shown in Fig. 2. It is noted that the problem of
selecting such material for use as infrared detectors is reduced to measuring semiconductor

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ACC NR: AP5026672

homogeneity from the standpoint of both its resistivity and recombination. The method of selecting prepared elements is both time consuming and expensive. The most advantageous method of selecting suitable material is the method of "mapping" the resistivity and diffusion length from the measurements of the photovoltaic effect. The procedure to be used when employing such a method is described. The authors thank Dr. Engineer A. Ambroziak for furnishing the samples used for the investigation described in this paper. Orig. art. has: 2 figures. ²

ASSOCIATION: Zaklad Elektroniki IPPT PAN (Laboratory of Electronics, IPPT, PAN)

SUBMITTED: 00

ENCL: 02

SUB CODE: DC

NO REF SOV: 000

OTHER: 006

Card 2/4

L 4961-66

ACC NR: AP5026672

ENCLOSURE: 01

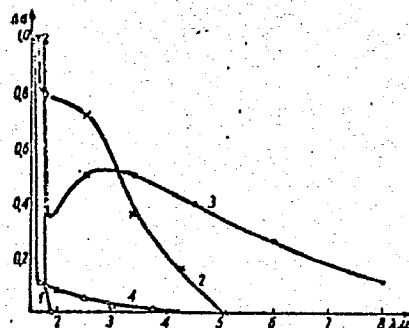


Figure 1. Examples of the spectral characteristics of photoelectric conductivity. The numbers indicate the four groups of specimens.

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L 4961-66

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ENCLOSURE: 02

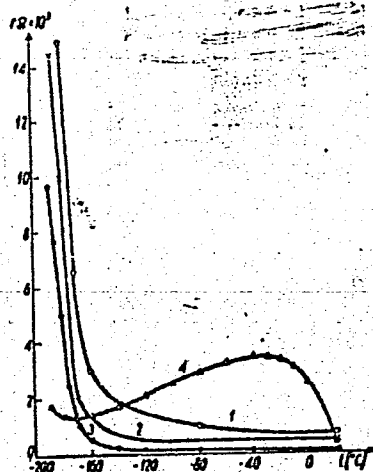


Figure 2. Temperature characteristics of the resistance of the specimens in Fig. 1.

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PRZESMYCKI, Feliks; SZYKULA, Roman; OLKOWSKA, Danuta; SWOBODZINA,
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Inst :

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Card : 1/1

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Kierownik: prof. dr S.Swynar.

(MENTAL DISORDERS, physiology.

eff. of cerebral cortex on blood coagulation)

(BLOOD COAGULATION,

eff. of cerebral cortex in ment. disord.)

(CEREBRAL CORTEX, physiology.

eff. on blood coagulation in ment. disord.)

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(HYPERTENSION, therapy,
conditioned reflex method)

(REFLEX, CONDITIONED,
ther. of hypertension by conditioned reflex method)

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[Five tons of milk from each cow] Piat' tonn moloka ot kazhdoi
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