

What Can be Produced (Cont.)

POL/3268

K. Radziwill, Master in Science, Tech. Ed.: A. Urbanicki.

**PURPOSE:** This book is intended for chemists and equipment designers in the plastics industry. It will be of interest to students of the plastics industry.

**COVERAGE:** This book, one of a series on the plastics industry, is divided into two parts. The first part discusses the classification of plastics, methods of production, and the most common uses of the end-products. The basic properties of individual plastics are given in tabular form along with testing methods. The second part contains a general discussion of all known methods of processing plastics, thermoplastics, and thermosetting plastics. The design, construction, and parts of processing machines are described. The techniques of dyeing, metallization, machining, and welding of plastics are also treated. A listing of terminology used in the plastics industry is included. A table includes the trade names and producers of major plastics. No references are given.

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AVAILABLE: Library of Congress

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TM/mas  
3/15/60

DOBACZYNSKI, Antoni, mgr inz.

A concept of the Polish shipbuilding industry in the development of  
ship power plants. Biul techn Cegielski 5:21-24 Special issue '61.



DOBACZYNSKI, Aleksander

The industry of equipment and machines for the production of plastics in France. Polimery tworzywa wielocząst 7 no.2:52-56 F '62

1. Instytut Tworzyw Sztucznych, Warszawa.

DOBACZYNSKI, Antoni, mgr.ina.

Development prospects of the production of ship engines. Bud  
okretowe Warszawa 7 no.8:247-248 Ag '62.

DOBACZYNSKI, Antoni, mgr inż.

International congresses of internal combustion engine builders.  
Bud okretowe Warszawa 8 no.8:272-273,274 Ag '63.

1. Zjednoczenie Przemysłu Okretowego, Warszawa.

DOBRACZYNSKI, S.

POLAND

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DOBRAKHOTOV, N. N.		PROCESSES AND PROPERTIES INDEX
Interaction of Elements and Their Oxides in the Welding Bath During Welding of Metals. (In Russian) N.		
N. Dobrakhotoy. <i>Avtoгенное Делo</i> (Welding), Sept. 1948, p. 14-19.		
Discusses the physicochemical bases of the regulation of the composition of the gas flame and the interaction of elements and their oxides during gas welding of metals. A series of formulas are proposed for calculation of such reactions.		
A.S.S.S.R. METALLURGICAL LITERATURE CLASSIFICATION		
A U.S.S.R. METALLURGICAL LITERATURE CLASSIFICATION		
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In memoriam Dr. Jozef Malek. Chir.narz.ruchu ortop. polska 26 no.2:  
109-111 '61.

(OBITUARIES)

DOBRANSZKY, Laszlo

A process for turning rounding-off of great radius end. Gep 12  
no.1:33-34 Ja '60.

DOBRANSZKY, Laszlo

The use of adjustable bumpers at chuck work pieces. Gep 12 no.1:34  
Ja '60.



DOBRANYI, G.

Agfacolor B333; G334. p. 15. Vol. 2, No. 1 Jan. 1956. KEP ES HANGTECHIKAL  
Budapest, Hungary.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1  
January 1956.

BARNA, Tamas; BERTY, Imre; DOBRANYI, Geza; SCHALK, Ervin; SZIMAN, Oszkar

Hungarian remarks about sensitometric standardization. Pt. 2.  
Kep hang 5 no.4:106-107 Ag '59.

1. "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Barna, Berty, Sziman).

BARNA, Tamas; BERTY, Imre; DOBRANYI, Geza; SCHALK, Ervin; SZIMAN, Oszkar

Hungarian remarks on sensitometric standardization. Pt. 3. Kep hang  
5 no.5:132-133 0 '59.

1. Hunnia Filmstudio; "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Barna). 2. FORTE Fotokemiai Kutato Labor, Vac; "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Berty). 3. Magyar Filmlaboratorium (for Dobranyi). 4. Hivadastechnikai Kutato Intezet (for Schalk). 5. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete; "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Sziman).

DOBRANYI, Geza; DOBOS, Jozsefne; POLSZTER, Akos

Changing the color equilibrium of color reversible films by applying various developing agents. Kep hang 6 no.1:1-4 F '60.

1. Magyar Filmlaboratorium.

JOBKINSKI, D.

Influence of long continued fertilising upon physical properties of soil. H. Dobrzański (Inst. Univ. M. Curie-Skłodowska, 1953, 8, 2, 1-18). Studies of physical properties of soils were carried out on experimental plots after 36 years of fertilising with manure, mineral fertilisers, and lime. The results obtained show a higher (0.1-0.2%) humus content in the fertilised than in the untreated plots. A certain increase of porosity and of max. capillary moisture capacity was observed in plots treated with manure or mineral fertilisers but the untreated plots have shown a higher moisture content during the vegetation season. The effects of two 3-year and 6-year crop rotation systems on the soil conditions were also studied. It is possible that the observed effect of long-continued fertilising on the properties of soil was small owing to the very high water potential (as shown by untreated plots) of the soil.  
S. K. Iwoniak.

DOBRAŃSKI

*[Handwritten signature]*

Determination of the soil permeability coefficient. S. Zięgaczki  
 and B. Dobrański *Ann. Univ. M. Curie-Skłodowska*, 1933, **8**, 2,  
 41-49. Apparatus for the determination of the soil permeability  
 coeff.  $K$  is described. The coeff.  $K$  is defined by Darcy's formula  
 $v = K/h$ , where  $v$  is the vol. of water in c.c. per sec. flowing  
 through the sample,  $h$  the pressure drop across the sample, and  
 $F$  the cross-sectional area of the sample in sq. cm. The apparatus  
 consists of a cylinder in which a constant head of water is main-  
 tained, with another metal cylinder containing the sample (cut out  
 from the soil without disturbing its structure) supported at each  
 end by a wire net and a reservoir for measuring the volume of the  
 percolate. A single determination lasts from 1 to 5 hr. (for im-  
 permeable soils), but a battery of identical units can be used to  
 conduct many tests simultaneously. S. K. LACROWICZ.

①

~~BARNA, Tamas; BERTY, Imre; DOBRANYI, Goza; SZIMAN, Oszkar; SCHALK, Ervin~~  
BARNA, Tamas; BERTY, Imre; DOBRANYI, Goza; SZIMAN, Oszkar; SCHALK, Ervin

Hungarian remarks about sensitometric standardization. Pt. 1.  
Kep hang 5 no.3:77-78 Je '59.

1. Hunnia Filmstudio; "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Barna). 2. FORTE Fotokemiai Kutato Labor, Vac; "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Berty). 3. Magyar Filmlaboratorium (for Dobranyi). 4. Hirdastechnikai Kutato Intezet (for Schalk). 5. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete; "Kep- es Hangtechnika" szerkeszto bizottsagi tagja (for Sziman).

DOBRAŠ, JAROSLAV

CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14429.

Author : Dobras Jaroslav, Marhan Jiri, Krejci Jiri, Pirkl Jaromir

Inst :

Title : Arylation by Means of Diazonium Salts. II. Study of the Effects of Catalysts, Temperature and Structure of Diazonium Salt on the Course of Its Interaction with 4-Sulfocinnamic Acid.

Orig Pub: Chem. listy, 1957, 51, No 3, 463-469; Sb. chekhosl. khim. rabot, 1957, 22, No 5, 1473-1481.

Abstract: On interaction of  $p\text{-NO}_2\text{C}_6\text{H}_4\text{N}_2\text{Cl(I)}$  with 4-sulfocinnamic acid (II), in aqueous medium, there is formed the 4-nitrostilbene-4'-sulfonate of sodium (crystals from water) which on reduction with Fe in a neutral medium gives 4-aminostilbene-4'-sulfonic acid (crystals from aqueous  $\text{C}_5\text{H}_5\text{N}$ ). Analogously from inner salt of 2-sulfo-4-nitrophenyl diazonium

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

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Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14429.

(III) and II, there is formed 4-nitrostilbene-2,4'-disulfonic acid which was reduced, without isolation, in the reaction mixture with Fe to 4-aminostilbene-2,4'-disulfonic acid. From the latter, after diazotation and coupling with beta-naphthol, was prepared the tetrahydrate of the disodium salt of stilbene-4-azo- $\beta$ -naphthol-2,4'-disulfonic acid. In addition to the normal products of arylation there are formed on interaction of I or III with II unidentified products of further conversions which have been detected by paper chromatography. A study was made of the effects of temperature, catalysts and substituents in the molecule of the diazonium salt, on the course of its reaction with II. The experiments were carried out in aqueous medium, in the presence of excess  $\text{CH}_3\text{COONa}$ , in sealed apparatus. Yields of individual reactions were evaluated on the basis of the

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

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Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14429.

amount of liberated  $\text{CO}_2$ . Experiments were conducted with I,  $\text{C}_6\text{H}_5\text{N}_2\text{Cl}$  and hydrochloric diazonium salts prepared from ortho-, meta- and para-isomers of chloraniline, oxalylamino-aniline, aniline sulfonic acid, anisidine, toluidine, nitraniline and aminobenzoic acid. It was found that III is more active than I. Effect of elevated temperature is apparent only in the case of diazonium salts of low reactivity. Among the catalysts that were used ( $\text{CuO}$ ,  $\text{CuCl}_2$  and  $\text{Cu}_2\text{Cl}_2$ ) the best was found to be  $\text{CuCl}_2$ . Yields of the products of reaction of II with p-substituted hydrochloric diazonium salts are the highest and those with the m-derivatives are the lowest. A beneficial effect on the formation of stilbene derivatives, in the case of p-substituted hydrochloric diazonium salts, is produced by electropositive as well as by some electronegative substituents.  $\text{NO}_2^-$  and the  $\text{COOH}^-$

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14429.

group in the para position of the diazonium salt produce a detrimental effect. Previous communication see Chem. listy, 1952, 46, 277.

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NIKHINSON, I.M.; DOBRYA, T.Ye.; YASHEK, Kh.N.

Virological and serological features of the influenza outbreak in  
Kharkov and districts of Kharkov Province in the first quarter of  
1959. Vop. virus. 5 no. 6:751 N-D '60. (MIRA 14:4)  
(KHARKOV PROVINCE--INFLUENZA)

ACC NR: AP6021585

(N)

SOURCE CODE: UR/0402/66/000/003/0372/0372

AUTHOR: Nakhinson, I. M.; Dobraya, T. Ye.; Yashek, Kh. N.

ORG: Virology Laboratory, Kharkov Regional Epidemiological Station (Virusologicheskaya laboratoriya Khar'kovskoy oblastnoy sanepidstantsiya)

TITLE: Influenza viruses identified at the Virology Laboratory of the Kharkov Regional Epidemiological Station in 1965

SOURCE: Voprosy virusologii, no. 3, 1966, 372

TOPIC TAGS: virology, influenza virus , A2 virus, B virus, VIRUS , HISTOLOGY

ABSTRACT:

Eleven strains of influenza virus were isolated from living and dead tissues. Ten of these were type A2 and one, type Bviruses. They were successfully freed from the tissue culture cells by trypsinization, while use of hydrocortisone was ineffective for isolating viruses.

[W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: none/

Card 1/1

AVDIYEV, Ya.; DOBRAYAKOV, N.

Fire safety has been increased. Posh. delo 4 no. 7:8-9 J1 '58.

(MIRA 11:8)

(Factories--Fires and fire prevention)

POLAND/Human and Animal Physiology (Normal and Pathological).  
The Liver.

T-8

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50968

Author : Dobrazanski, Zdislaw

Inst : -

Title : Erythrocyte Resistibility in Certain Liver Diseases.

Orig Pub : Arch. immunol. i terap. doswiadc., 1956 (1957), 4, 93-114.

Abstract : The maximum of erythrocyte resistibility (ER) to a hypotonic NaCl solution increased, yet the minimum did not change in cases of infectious hepatitis and of other liver diseases accompanied by impairments of the parenchyma. ER minimum rose and ER maximum remained the same with regard to saponins. These ER changes were correlated to the degree of parenchyma impairment. They did not, however, depend upon cholesterol and bilirubin contents of the sera. Apparently, some kind of a substance appears in the blood serum which changes ER.

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- 72 -

DOBRE, Constantin

How we Rumanians are helping the state agricultural units  
in fulfilling their competitive obligations. Munca sindic 7  
no.8:29-32 Ag '63.

1. Presedintele Consiliului local al Sindicatelor Caracal,  
reg. Oltenia.



NEGOITA, C., conf.; TROSC, Viorica, dr.; DOBRE, D., dr.

Idiopathic pulmonary hemosiderosis, an immuno-allergic disease?  
Med. intern. 15 no.9:1085-1089 S '63.

1. Lucrare efectuata in Clinica I medicala, I.M.F. Iasi.  
(LUNG DISEASES) (HEMOSIDEROSIS) (ALLERGY)

MORLOVA, Irina; URSU, Teodora; DOBRE, Florica (Bucuresti)

Histological data on the cancer of grapevine (*Vitis vinifera* L.)  
Natura Biologie 16 no.5:74-78 S-0 '64.

DOBRE, G. G.

Dobre, G. G. -- "Analysis of Systems of Mining One of the Group of Ore Deposits in the Rumanian People's Republic." Min Higher Education USSR, Moscow Mining Inst imeni I. V. Stalin, Moscow, 1955 (Dissertation for Degree of Candidate of Technical Sciences).

SO: Knizhnaya Letopis', No. 23, Moscow, June, 1955, pp. 87-104.

DOBRE, Gh.

Supporting the production organization with full knowledge of the case.  
Munca sindic 6 no.9:31-33 8 '62.

1. Secretar al comitetului sindicatului Uzinele Grivita Rosie,  
Bucuresti.

DOBRE, Gh., ing.; CENUSA, C., ing.; SLIVILESCU, M., ing.

Aspects of the coal industry in Poland recorded during the  
visit of a group of Rumanian specialists. Rev min 13  
no.9:429-436 S '62.

DOBRE, Gh., ing., candidat in stiinta tehnice

Improving quality indexes in processing ore deposits by a judicious organization of waste sorting from the mining mass. Rev min 15 no.9: 433-438 S '64.

L 30721-66 EWP(w)/T/EWP(t)/EPI JD

ACC NR: AP6022119

SOURCE CODE: RU/0018/65/000/009/0510/0515

AUTHOR: Hajdu, Iosif; Kovats, Ladislau; Nicola, Petre; Dobre, Ioan

4D  
B

ORG: none

TITLE: New formula for determining creeping elongation

SOURCE: Constructia de masini, no. 9, 1965, 510-515

TOPIC TAGS: elongation, steel, creep, metal property

ABSTRACT: The authors describe a novel method for the determination of the specific creeping elongation of soft steels and compare the results obtained through this method with those measured in the conventional method. The new testing process allows the obtaining of measurements equivalent to 500 hours' duration in only 50 hours of testing. Orig. art. has: 9 figures, 5 formulas and 4 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 003 / SOV REF: 003  
OTH REF: 009

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BABEU, Tiberiu, ing.; DOBRE, Ionel, ing.; BOGDANESCU, Ioan, ing.

Experimental study of the rugosity variation of cylinders  
in the M-59A engines during their running-in after overhauls.  
Rev transport 12 no.2:49-54 F '65.



ISTRATI, G.; SZEGLI, Lucia; CIUFECO, C.; FILIPESCO, S.; DOBRE, Maria

Serény test produced by certain Salmonellae. Arch. Roum.  
path. exp. microbiol. 22 no.1:101-107 Mr '63.

(KERATOCONJUNCTIVITIS) (CONJUNCTIVITIS)  
(SALMONELLA INFECTIONS, ANIMAL)

VODA, G. Viorel; DUMITRESCU, Florea I.; STRATESCU, Ion, student;  
IONESCU-TIU, C.; DOBRE, Nelu, prof. (Merei Buzau); POPESCU,  
Eleodor (Tr. Severin); GHEORGHIU, D.R. (Timisoara); GRIGORE,  
Viorel (Oroftiana).

Exercises and problems proposed for grades 5-8. Gaz mat B  
14 no.12:741-743 D '63.

DOBRE, Nelu I. (Merei, Buzau); MUNTEANU, I.; BUICLIU, Gh.;  
CASANDROIU, T. (Ploiesti); STRATESCU, Ion; IONESCU-Tiu,  
G.; TOMESCU, Ion (Bucuresti); MIRZAN, D., prof. (Bujoreni,  
Vilcea)

Exercises and problems proposed for grades 5-8. Gas mat  
B 15 no. 5:227-230 May '64.

DOBRE, Nelu (Buzau); CHITEI, Gh.A. (Deva); CAPITAN, Gh. I., prof. (Anina);  
GRIGORESCU, D. Nicolae (Hirsova); NISTOR, Gh.V. (Buzau); MIHALASCU,  
D., prof. (Pitesti); VELESCU, I. (Pitesti); DUMITRIU, C. (Focsani);  
SIMON, Petre (Tirgu Mures); BAERA, B., prof. (Paunesti); COJOCARU,  
Ion (Craiova)

Exercises and problems proposed for grades 5-8. Gaz mat B 16 no.1:  
39-42 Ja '65.

DOBRE, Paula, chimist; TOADER, Ion, ing.; STAFIE, Ion, ing.

"Fight against weeds on railroads" by [ing.] Dem. Urma. Reviewed by Paula Dobre, Ion Toader, Ion Stafie. Rev cailor fer 10 no.10: 566 0 '62.

1. Sef laborator Institutul de Cercetari pentru Transporturi si Telecomunicatii (for Dobre). 2. Inginer principal plantatii si amenajarea zonei Dir.L. (for Toader). 3. Inginer principal serviciul tehnic Dir. L. (for Stafie).

FAIBIS, A.; IONESCU, G.; MARINCESCU, G.; SARAGHA, M.; DOBRE, V.

Additions to the study of the mechanisms of localizing visceral disturbances in the course of neuroses. Note 1: Particularities of visceral disturbances of animals with double stereotypy [salivatory and respiratory] in the course of a neurosis provoked by overstraining the digestive projection of the visceral analyser. Studii cerc.fiziol. 4 no.3:301-311 '59. (REAI 9:5)  
(VISCERA) (NEUROSES) (SALIVARY GLANDS) (RESPIRATORY ORGANS)  
(DIGESTION)

MIRZAN, D. (Rimnicu Vilcea); SAMOILA, Gh. V., prof. (Bacau); MUNTIANU, I., prof. (Iasi); DOBRE, T., prof. (Hales-Buzau); LAMBA, Stelian (Constanta); GRIGORESCU, D. Nicolae (Hirsova, Dobruja); ALBESCU, I. (Fagaras); GROZESCU, T., prof. (Arad); STANCU, I.M. (Bucuresti); NEACUSU, M., prof. (Garansebs)

Exercises and problems for grades 5-8. Gaz mat B 16 no.3:91-93  
F '65.

BADESCU, Alexandru; CHIOSA, L.; DOBRE, V.; HAULICA, I.; SCARLETE, T.

Pharmacological properties of an oxime, the chloride of phenacyl-oxime by ridinium. Note 1: Cardiovascular action. Studii cerc. fiziol. 4 no.3:321-334 '59. (REAI 9:5)  
(OXIMNS) (PHENACYLPYRIDINIUM CHLORIDE)  
(CARDIOVASCULAR SYSTEM)



DOBREA, A.

Bucharest, Romania, 4 October 1952, Organizational Territory, Vol VI, No. 2, 1952

1. "Report on the Completion of Collectivization and the Reorganization of Agriculture Submitted to the Extraordinary Session of the Grand National Assembly at the Session of 27 April 1952," in: GHICERIU-DUMITRU, pp 3-12.
2. "The Old Genetic Transplantation Network in the Western Part of the Country Carried on its Various Planning Systems and the Possibility of its Reorganization in the State Center," in: GHICERIU-DUMITRU, pp 1-12.
3. "The New R.P.R. 21/1952 Professional Center in Production and Science," ZEBERU, pp 45-52.
4. "The Necessity of Adapting the Plans for the Organization of Territory," INGR M. ANASTASIU and INGR I. CRINDAC, pp 53-59.
5. "Diagrams for the Impediments Organization of the Territory in Support of the Socialist Agricultural Units," INGR A. DOBREA, pp 60-64.
6. "The 'Archer' Institute," INGR S. AVRAM, Center for the Organization of Territory, Bucharest, pp 65-68.

1284  
CSD: 2000-4

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DOBREA, A., ing.

Establishment of production centers, an important element in planning the organization of the land exploitation in the socialist agricultural units. Rev geodezie 6 no.4:55-66 '62.

1. Consiliul Superior al Agriculturii.

POPESCU, N., ing.; DOBREA, A., ing.

Land organization, main economic and organizational means of  
strengthening the socialist agricultural enterprises.  
Rev geodezie 8 no. 3:23-32 '64.

1. Higher Council of Agriculture.

DEFOUR, D., arh.; DOBREA, A., Ing.

Land organization. Rev geodezie 9 no.1:46-57 '65.

1. Higher Council of Agriculture.

DOBREANU, E.; MANOLACHE, C.; PUSCARIU, V.

New species of phreatic Amphipoda in Rumania, In French.p. 103.

REVUE DE BIOLOGIE, JOURNAL OF BIOLOGY. (Academia Republicii Populare Romine  
Bucuresti.

Vol. 1, No. 1, 1956

SOURCE: East European List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957

GOSTIN, A., ing.; DOBREANU, I.

Pneumatic apparatus for length measurements. Metrologia  
april no. 5:208-213 My '64.

DOBREANU, MIHAI, G.

R/007/62/013/007/001/001  
D015/D105

AUTHOR: Mihai, G., Dobreanu, Chemical Engineer, Chief Researcher  
(Bucharest)

TITLE: Anticorrosive oils and greases in maritime and in humid tropical  
climates

PERIODICAL: Petrol si Gaze, v. 13, no. 7, 1962, 317 - 321

TEXT: The article deals with oils and greases as means of protecting metals, mainly ferroalloys, against corrosion caused by humidity and salt water spray in tropical regions. Research conducted by the Institutul de cercetări electro-tehnice (Electrotechnical Research Institute) in Bucharest and the Institutul de cercetări "Petrochim" ("Petrochim" Research Institute) in Ploiești, was based on the use of consistent oils and greases activated by anticorrosive agents. Domestic products were compared to various efficient foreign articles. The anticorrosive agents consisted of barium and sodium sulfonates with a petroleum oil basis. Sheet iron samples protected by domestic and imported oils and greases were subjected to tests in salt water spray and in hot-humid climates. Salt

Card 1/3

Anticorrosive oils and greases .....

R/007/62/013/007/001/001  
D015/D105

water spray tests were conducted in the ICET cloud chamber, the spray being produced by an aqueous solution of 3% sodium chloride. Humidity tests were conducted in Weiss climate chambers, the test samples being subjected to a temperature of  $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$  and a relative humidity of 95 - 98%. AR 11, AR 12 and AR 13 domestic oils and imported "2" oil as well as Rumanian U 100 grease activated by anticorrosive agents and imported grease "3" met ICET requirements based on 60 salt water spray tests and 100 temperature and humidity tests. The author favors the use of oil and grease with additives and recommends the application of AR 12 oil and U 100 activated grease on machines exported to tropical countries. Since greases are easily removed during operation or storage, greased parts should especially be protected against friction or rain. There are 2 figures and 3 tables. The most important English-language references given in Rumanian read as follows: A.H. Roebuck: Corrosion and adsorption studies based on the use of anticorrosive sulfonates; Corrosion, 13, no. 11, 1957, 55 and Baker and Tismann: Polar-type rust inhibitors. I.E.C. 40, no. 12, 1948, 2338.

Card 2/3



Anticorrosive oils and greases .....

R/007/62/013/007/001/001  
D015/D105

ASSOCIATION: Institutul de cercetări electrotehnice (Electrotechnical Research Institute)

SUBMITTED: February 24, 1962

Card 3/3

DOBREANU, Mihai G., ing. chimist

Corrosion inhibiting oils and greases for saline and moist tropical climates. Petrol si gaze 13 no.7:317-321 JI '62.

1. Cercetator principal la Institutul de cercetari electrotehnice.

DOBREANUE, E.; MANOLACHE, C.

Contribution to the knowledge of the Psyllidae of Rumania; Psyllodes-Aphalarinae.  
In French. p. 123.

REVUE DE BIOLOGIE. JOURNAL OF BIOLOGY. (Academia Republicii Populare Romine)  
Bucuresti, Rumania. Vol. 3, no. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.

DOBREANU, E.; MANOLACHE, C.

New contributions to the knowledge of Psylla Psylloidea-Trioziinae.  
Rev biol 4 no.2:279-299 '59. (EEAI 9:8)

1. Membre correspondant de l'Academie de la R.P.R. (for Manolache).
2. Secetaire de redaction de la Revue de Biologie (for Dobreanu)  
(RUMANIA--PSYLLIDS)

DOBREANU, E.; MANOLACHE, C.

Studies on the copulative organ of some species of Psylla (Psylloidea, Triozinae and Aphalaridae). Rev biol 5 no.1/2:87-99 '60.  
(EEAI 10:9)

1. Comite de redaction, REVUE DE BIOLOGIE, secretaire de la redaction (for Dobreanu). 2. Membre correspondant de l'Academie de la R.P.R. (for Manolache).

(Jumping plant lice) (Psylla)

DOBREANU, E.

"Fam. Papilionidae (Lepid). Fauna of Rumania. Insecta." Vol. 11.  
Reviewed by E. Dobreanu. Rev biol 7 no.2:295-296 '62.

DOBREANU, Ecaterina; MANOLACHE, C.

Contributions to the knowledge of Psyllidae (Homoptera-Psyloidea) of Rumania. Studii cerc biol anim 14 no.13: 299-313 '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil adjunct, "Studii si cercetari de biologie; Seria biologie animala" (for Manolache).

GEORGESCU, Miron; DOBREANU-ENESCU, Viorica

Hemodynamic characteristics of athletes who play competitive hand-  
ball and volley-ball. Stud. cercet. med. intern. 2 no.1:91-98 '61.  
(SPORTS) (BLOOD CIRCULATION) (BLOOD PRESSURE)



POPESCU, Iuliu; ZAMFIRESCU-GHEORGHIU, Marcela; DOBREANU-ENESCU, ~~Victoria~~  
MAXIMILIAN, Stefania; HARNAGEA, P.

Changes in serum glutathione in cardiac insufficiency. Stud. cercet.  
med. intern. 2 no.3:261-276 '61.  
(HEART FAILURE, CONGESTIVE blood)  
(GLUTATHIONE blood)

DOBREANU-ENESCU, Viorica; TEODORINI, Sanda; GEORGESCU, Mircea

Hemodynamic aspects of hypertension of renal origin. Stud. cercet.  
med. intern. 2 no.4:511-518 '61.

(HYPERTENSION, RENAL diagnosis) (HEART physiology)  
(BLOOD CIRCULATION)

DOBREANU-ENESCU, Viorica

New data concerning the nervous regulation of cardiovascular function.  
Stud. cercet. med. intern. 2 no.5:619-629 '61.

(NERVOUS SYSTEM physiology)  
(CARDIOVASCULAR SYSTEM physiology)

STEINBACH, M.; DOBREANU-ENESCU, Viorica; CHITESCU, Elena; MARCUS, N.; IOTA, C. G.

Treatment of arterial hypertension with heparin. Stud. cercet. med.  
intern. 2 no.5:671-679 '61.

(HYPERTENSION therapy) (HEPARIN therapy)

DOBREANU-ENESCU, Viorica; RUNCAN, V.; TEODORINI, Sanda; MOLNER, C.

Correlations between the peripheral use of oxygen and the systemic hemodynamic picture in patients with chronic hepatitis and post-hepatitis cirrhosis. Stud. cercet. med. intern. 3 no.1:51-64

'62.

(HEPATITIS complications)  
(BLOOD PRESSURE)  
(HEART physiology)

(LIVER CIRRHOSIS complications)  
(BLOOD CIRCULATION)  
(OXYGEN blood)

GEORGESCU, Miron; DOBREANU-ENESCU, Viorica; FOTESCU, Dorin; IONESCU, Tr.

Hemodynamic aspects of performing football players. Stud. cercet. med.  
intern. 3 no.3:391-401 '62.

(CARDIOVASCULAR SYSTEM physiology) (SPORTS)  
(EXERTION physiology) (ELECTROCARDIOGRAPHY)  
(BLOOD CIRCULATION) (OXIMETRY) (BLOOD PRESSURE)

GEORGESCU, Miron; DOBREANU-ENESCU, Viorica; TEODORINI, Sanda; POPESCU, G.;  
IOTA, C.G.

Hypertensive regulatory disorders produced in conditions of mental  
and physical overstimulation. I. Mechanisms of hypertensive regulatory  
disorders appearing in performing athletes. Stud. cercet. med. intern.  
3 no.4:505-513 '62.

(EXERTION)

(SPORTS)

(EMOTIONS)

(HYPERTENSION)

(AUTONOMIC DYSFUNCTION)

GEORGESCU, Miron; DOBREANU-ENESCU, Viorica; TEORDORINI, Sanda; POPESCU, G.;  
IOTA, C.G.

Hypertensive regulatory disorders in conditions of mental and physical  
overstimulation. II. Therapeutic results obtained in this type of  
regulatory disorder with guanethidine (ismelin, Ciba). Stud. cercet.  
med. intern. 3 no.4:515-523 '62.

(EXERTION) (SPORTS) (AUTONOMIC DYSFUNCTION)  
(HYPERTENSION) (GUANETHIDINE)



ZAMFIRESCU-GHEORGHIU, Marcela; POPESCU, Iuliu; DOBREANU-ENESCU, Viorica;  
TEODORINI, Sanda; CIOBANU, Florina

Experimental investigations of myocardial activity after administration  
of substances blocking the energetic enzymes. Stud. cercet. med. intern.  
3 no.4:525-547 '62.

(ENERGY METABOLISM)

(MYOCARDIUM)

(ANTIMETABOLITES)

DORREANU-ENESCU, Viorica, dr.; TEODORINI, Sanda, dr.; MOLNAR, C., dr.

Reciprocal correlations between cardiopathy on pulmonary insufficiency.  
Med. intern. 14 no.12:1411-1419 D '62.

1. Lucrare efectuata in Institutul de medicina interna al Acad. R.P.R.  
(director: acad. N.Gh. Lupu), Bucuresti.

(HEART DISEASES)

(RESPIRATORY INSUFFICIENCY)

(HYPERTENSION, PULMONARY)

(PULMONARY CIRCULATION)

LUPU, N. Gh., acad.; STEINBACH, M.; DOBREANU-ENESCU, Viorica; VULPESCU, Sofia;  
JELEA, Al.; TEODORINI, Sanda; VLADESCU, C.

Incidence of atherosclerosis among fishermen in the delta of the  
Danube. Stud. cercet. med. intern. 4 no.1:29-35 '68.  
(ARTERIOSCLEROSIS) (FISH) (FATS, UNSATURATED)  
(BLOOD CHOLESTEROL) (HYPERTENSION)

DOBREANU-ENESCU, Viorica; HARNAGEA, P.; TEODORINI, Sanda; MOLNER, C.

Clinical, hemodynamic and electrocardiographical effects of prolonged treatment with guanethidine or with combined guanethidine and cyclopentiazide in hypertensive disease. Stud. cercet. med. intern. 4 no.1:57-82 '63.

(DIURETICS) (HYPERTENSION) (GUANETHIDINE) (BENZOTHIADIAZINES)  
(ELECTROCARDIOGRAPHY) (BLOOD CIRCULATION)  
(BLOOD PRESSURE)

IOTA, C.G.; GEORGESCU, Miron; DOBREANU-ENESCU, Vi<sup>1</sup>rica; POPESCU, Gh.;  
TEODORINI, Sanda

Hypertensive disorder in conditions of physical and mental strain.  
III. Research on the reactivity of the autonomic nervous system in  
performing athletes with hypertensive disorders. Stud. cercet. med.  
intern. 4 no.1:83-92 '68,  
(HYPERTENSION) (AUTONOMIC DYSFUNCTION) (STRESS)  
(EXERTION) (SPORT MEDICINE)

POPESCU, Iuliu; ZAMFIRESCU-GHEORGHIU, Marcela; DOBREANU-ENESCU, Viorica;  
CIOBANU, Florina; HARNAGEA, P.

Contribution to the study of blood pyruvic acid in cardiac insufficiency.  
Stud. cercet. med. intern. 4 no.2:187-188 '63.  
(HEART FAILURE, CONGESTIVE) (PYRUVATES)  
(BLOOD CHEMICAL ANALYSIS)

DOBREANU-ENESCU, Viorica; TEODORINI, Sanda; BARNAGEA, Petre

Treatment with phenyl-propyl-diphenyl-propyl-amine (Segontin Hoechst)  
in coronary disease. Stud. cercet. med. intern. 4 no.2:243-253 '63.  
(CORONARY DISEASE) (SEGONTIN)

STEINBACH, M.; DOBREANU-ENESCU, Viorica; MOLNER, C.; TEODORINI, Sanda;  
LAZAROVICI, Miriam

The lipid biochemical syndrome and vascular elasticity in  
smokers. Stud. cercet. med. intern. 4 no.4:535-537 '63.

(SMOKING) (BLOOD LIPIDS)  
(BLOOD CHOLESTEROL) (LIPOPROTEINS)  
(CAPILLARY RESISTANCE) (ELASTIC TISSUE)



DOBREANU-ENESCU, Viorica, dr.; HARNAGEA, P., dr.; TEODORINI, Sanda, dr.;  
MOLNER, C., dr.

Clinical, hemodynamic and electrocardiographical effects of  
prolonged treatment with guanethidine or with guanethidine-  
cyclopenthiazine in hypertensive disease. Med inter 15 no. 5:  
619-624 My '63.

(HYPERTENSION) (GUANETHIDINE) (BENZOTHIADIAZINES)  
(DIURETICS)

DOBREANU-ENESCU, Viorica, dr.

Current concepts concerning the pathogenesis of congestive cardiac insufficiency. Med. intern. 16 no.3:257-264 Mr'64.

1. Lucrare efectuata in Institutul de medicina interna al Academiei R.P.R. si al M.S.P.S., Bucuresti (director: acad. N.Gh.Lupu).

DOBRFANU-ENESCU, Viorica; TEODORINI, Sanda; FARNAGEA, P.; VULPFESCU, Sonia;  
IOTA, C.; MOLNER, C.

Value of electrocardiograms in the diagnosis of chronic cor  
pulmonale secondary to chronic bronchitis and obstructive  
pulmonary emphysema. Stud. cercet. med. intern. 5 no.4:  
397-418 '64.

STEINBACH, M.; DOBREANU-ENESCU, Viorica; VULPESCU, Sofia; POPESCU, I.;  
TEODORINI, Sanda; HARNAGRA, P.; CONSTANTINEANU, M.; GEORGESCU, M.;  
CUCU, F.

Methodology of epidemiological investigations in atherosclerosis.  
Stud. cercet. med. intern. 6 no.1:63-66 '65.

DOBREANU-ENESCU, Viorica

New data on the pathogenesis of coronary arteriosclerosis.  
Stud. cercet. med. intern. 6 no.2:115-122 '65.

FILIPOIU, Alexandru (Buzau); CAPITAN, Gh., prof. (Anina); URSULESCU, Octavian (Bucuresti); BUCUR, Ioan, prof. (Sibiu); PARLAPAN, Stefan (Galati); ZOLTAN, Demeny (Aiud); CORBAN, C. Aurelian); ~~LOBRE, Nelu I.~~ (Mere, Buzau); MIRZAN, D., prof. (Vilcea); GOREA, Aristide (Ploesti); IONESCU-TIU, C.

Exercises and problems proposed for grades 5-8. Gaz mat B 16  
no.4:177-179 Ap '65.

DOBRECOV, L.N. [Dobretsov, L.N.]

Thermionic energy converters. Cs cas fys 12 no.5/6:428-438  
'62.

1. Fysikane technicky ustav, Akademie ved Svazu sovetskych  
socialistickych republik, Leningrad.

22064

S/181/61/003/004/030/030  
B102/B209

24,7700 (1035,1143,1469)

AUTHORS: Dobrego, V. P., Rogachev, A. A., Ryvkin, S. M., and Yaroshetskiy, I. D.

TITLE: Low-temperature breakdown in germanium in connection with radiative defects

PERIODICAL: Fizika tverdogo tela, v. 3, no. 4, 1961, 1298-1300

TEXT: In germanium doped with elements of the third or fifth group, the current may suddenly rise at helium temperatures when the field applied exceeds a certain critical value. This effect is known as low-temperature breakdown. The following is the mechanism of this effect: At these temperatures, the majority of carriers causing impurity conduction is localized at impurity centers, and resistivity is high. When a field is applied, the free carriers are accelerated and, at a certain field strength, their energy is high enough to cause impact ionization of the filled impurity centers. The low-temperature breakdown in Ge or Si due to donor or acceptor impurities has been investigated repeatedly. The present paper is a report on studies of this effect which is caused by radiative defects; such defects have been



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S/181/61/003/004/030/030

B102/B209

X

Low-temperature ...

produced by irradiating the semiconductor with gamma quanta or fast neutrons. First, the energy levels of the radiative defects are discussed; Fig. 1 shows the level scheme for gamma-irradiated (a) and fast-neutron irradiated (b) germanium. The two shallow levels of the radiative defects are only 0.02 and 0.01 ev, respectively, off the valency band; at helium temperatures, they are occupied by electrons only partly or not at all. In neutron-irradiated Ge specimens, the 0.01-ev level was found to be free from electrons at helium temperatures. In chemically impure specimens, the presence of donor centers offered a certain compensation, and the level was partly occupied by electrons. Volt-ampere characteristics of such specimens were taken by means of a "characteriograph." They were analogous to those obtained by B. Vul, E. Zavaritskaya, and V. Chuyenkov for the low-temperature breakdown due to impurity centers. Altogether, three specimens were examined: gamma-irradiated 1-p had a concentration of shallow radiation levels of  $N_a = 7 \cdot 10^{13} \text{cm}^{-3}$  and a hole concentration on them of  $p_a = 1 \cdot 10^{13} \text{cm}^{-3}$ ; 1-n and 2-n were n-type specimens having a resistivity of 2 ohm·cm; after neutron irradiation they were p-type. n-type and p-type specimens having a resistivity of 3 and 12 ohm·cm, respectively, were measured for comparison. The

S/181/61/003/004/030/030  
B102/B209

Low-temperature ...

values of the critical field strength (1) and of the breakdown field strength (2) for these two specimens are listed in columns (3) and (4) of the table. The authors thank T. V. Mashovets and N. A. Vitovskiy for having prepared the gamma-irradiated specimens, as well as S. R. Novikov and R. F. Konoplevaya for the neutron-irradiated specimens. There are 2 figures, 1 table, and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The most recent reference to an English-language publication reads as follows: McWhorter, R. Rediker, Proc. IRE, 47, 1207, 1959.

ASSOCIATION: Fiziko-tekhnicheskii institut im. akad. A. F. Ioffe AN SSSR Leningrad (Institute of Physics and Technology imeni Academician A. F. Ioffe AS USSR Leningrad)

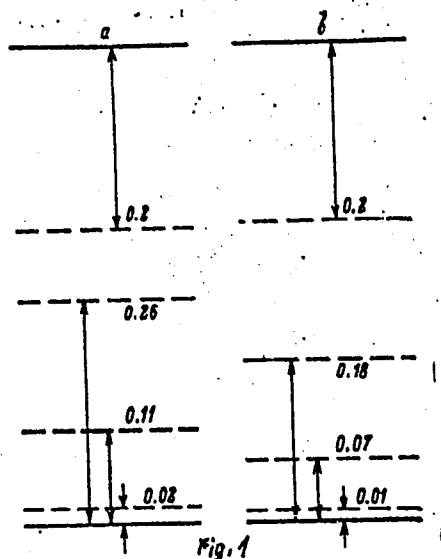
SUBMITTED: December 20, 1960

	1-г	1-н	2-н	контроль имп. р-тия (3)	контроль имп. р-тия (4)
④ E <sub>кp.</sub> в/см .	14	110	12	9.5	7.5
④ E <sub>н.</sub> в/см .	44	110	15	10.2	9

Card 3/4

Low-temperature ...

22064  
S/181/61'003/004/030/030  
B102/B209



X

Card. 4/4

34218

S/181/62/004/002/043/051  
B102/B138

9,4177 (1051,1482)

AUTHORS: Dobrego, V. P., and Ryvkin, S. M.

TITLE: Negative photoconductivity in germanium at liquid-helium temperature

PERIODICAL: Fizika tverdogo tela, v. 4, no. 2, 1962, 553 - 555

TEXT: Negative photoconductivity was discovered in n-type Ge with specific resistivity of 0.2 - 0.4 ohm·cm and p-type Ge of 0.5 ohm·cm at helium temperature. In n-type Ge above 1 ohm·cm no effect was observed. At low illumination intensities conductivity decreases in a very short range (a in Fig. 1). Oscillograms were taken of the current rise and drop in a cell with the specimen exposed to square light pulses. From the oscillograms it can be seen that positive and negative photoconductivity have different increase and decrease constants, the latter being particularly marked. Both curves are non-exponential. The red edge of negative photoconductivity of n-type Ge is at about 0.74 ev. At the short-wave side photoconductivity decreases slowly and vanishes at 1.1 - 1.3  $\mu$ . It is assumed that the negative photoconductivity may be Card (1/2)

RYVKIN, S.M.; DOBREGO, V.P.; KONOVALENKO, B.M.; YAROSHETSKIY, I.D.

Induced impurity breakdown in compensated germanium and  
current oscillations related to it. Fiz.tver.tela & no.7:  
1911-1914 J1 '62. (MIRA 16:6)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR,  
Leningrad.

(Breakdown, Electric)

(Germanium--Electric properties)

ACCESSION NR: AP4028452

S/0181/64/006/004/1203/1207

AUTHORS: Dobrego, V. P.; Ry\*vkin, S. M.

TITLE: Jumps in photoconductivity and recombination between impurities

SOURCE: Fizika tverdogo tela, v. 6, no. 4, 1964, 1203-1207

TOPIC TAGS: photoconductivity, recombination, germanium, silicon, impurity, electron transition, lux ampere characteristic

ABSTRACT: Experimental studies have revealed a new type of recombination transition in germanium and silicon. This is an interimpurity recombination, involving direct transition of electrons between different levels. The process is effected by large concentrations of small impurities but not by development of an impurity band. Interimpurity recombination is concluded to be a definite process involved in jumps of photoconductivity. The time lag of photoconductivity at low compensation is less than at greater compensation. The cause of this change is found in the fact that (when compensation increases) concentration of equilibrium electrons at donors declines, and, consequently, the intensity of recombination declines. Despite the low level of excitation, the lux-ampere characteristics of photoconductivity jumps are strongly sublinear. Such characteristics may be explained on the basis of this

Card 1/2

ACCESSION NR: AP4028452

new mechanism of interimpurity recombination. Detailed computations of the lux-ampere characteristics for such interimpurity recombinations show a sublinear dependence corresponding to the experimental data. Orig. art. has: 3 figures.

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 03Dec63

ENCL: 00

SUB CODE: EC, SS

NO REF SOV: 002

OTHER: 002

Card 2/2

DOBREGO, V.P.; OKSMAN, Ya.A.; RYVKIN, S.M.; SHIRNOV, V.N.

Discontinuity in conductivity and the photodielectric effect  
in germanium. Fiz. tver. tela 6 no.9:2860-2862 S '64.

(MIRA 17:11)

1. Fiziko-tehnicheskiy institut imeni Ioffe AN SSSR i Gosudarst-  
vennyy opticheskiy institut imeni Vavilova, Leningrad.



PL-1/

AUTHORS: P. Oksman, Ya. A. Rytkin, V. N.

TITLE: ... and photodielectric effect in ...

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

TOPIC TAGS: ... photodielectric effect, ... effect

crystal ... at 4.2K. The purpose of the investigation was to ...

Part 1/3

L 6705-65

ACCESSION NR: AP4044969

ities of p-n-junction conditions when the electric conductivity is determined by the mechanism described by N. F. Mott and I. W. Twoose (Advanced Physics, v. 10, No. 38, 107, 1961). In 1984, the authors described features of FI that in their results are similar to those observed by other groups. It is assumed that a carrier transport takes place by jumps over the antimony levels. Several articles in fact confirm the assumption that in compensated germanium the FI is of the same kind, i.e., with change in the temperature of the material at room temperatures and is similar to the FI in other semiconductors over the impurity levels of the appropriate type. This mechanism is the physical basis of other semiconductors remains still open. Orig. title in Russian and 1 table.

ASSOCIATION: Fiziko-tekhnicheskij institut im. A. F. Ioffe, Moscow

Card 2/3

L 6705-65

ACCESSION NR: AP4044969

(Physicotechnical Institute, AN SSSR); Gosudarstvennyy opticheskiy  
institut im. S. I. Valilova, Leningrad (State Optical Institute)

SUB: 104

NO REF SOURCE

Card 3/3

AUTHORS: [unclear], [unclear], [unclear], S. M. Zhukovskiy, A. L. [unclear]

TITLE: Interimpurity recombination in gallium arsenide

SOURCE: Fizika tverdogo tela, v. 7, no. 3, 1965, 841-845

TOPIC TAGS: photoconductivity, recombination, gallium arsenide, low temperature research, lux ampere characteristic, interimpurity recombination

ABSTRACT: This is a continuation of earlier work (Fiz. tverd. tela, v. 6, 1964, 1941-1944) on jump photoconductivity connected with the interimpurity recombination in germanium and silicon. In the present paper the authors present data obtained in experiments carried out at room temperature in p-type gallium arsenide. The jump photoconductivity and jump dark conductivity at sufficiently low temperatures. The carrier density at room temperature was  $(4-6) \times 10^{16} \text{ cm}^{-3}$ , with the concentration of the shallow acceptors greatly exceeding this value, so that the concentration of the shallow acceptor level exceeded  $10^{18} \text{ cm}^{-3}$ . The experiments show that jump photoconductivity and interimpurity recombination take place in gallium arsenide.

Card 1/2