

76-38-2-6/38

AUTHORS: Nikol'skiy, B. P. , Shul'ts, M. M. , Peshekhonova, N. V.

TITLE: The Theory of Glass Electrodes (Teoriya steklyannozo elektroda) VIII. The Transition of Glass Electrodes From a Metal Function to Other Functions (VIII. Perekhod steklyannykh elektrodov ot odnoy metallicheskoj funktsii k drugim)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 2, pp. 262-269 (USSR)

ABSTRACT: The problem was investigated to what extent the one or other electrode with certain electrode function is capable of satisfying another electrode function, i.e. being capable of showing a reverse effect with regard to the ion originally not contained in the glass. In consequence of the experiments carried out it can be maintained that in the action of a foreign alkaline kation on a glass electrode with metal function the electrode obtains another metal function corresponding to this kation. This new metal function occurs with an accuracy of up to 5 %. The calculation of the ion exchange

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The Theory of Glass Electrodes . VIII. The Transition of Glass Electrodes  
From a Metal Function to Other Functions

constants for sodium glass electrodes is carried out. This is also valid, however, for electrodes of potassium glass. It is shown that the ion exchange between glass- and water phase mainly depends on the magnitude of the energy of binding of the exchange ions with the glass phase as well as on their energy with regard to the binding with the water phase. It can be assumed that the ion binding which depends on the ion size plays the main part in the glass phase. To this is added the action of the polarizability of the anions contained in the glass. As regards the binding of the ions with the water medium its stability essentially depends on the interaction of the ions with the water dipoles. Here the binding energy in this case to a much greater degree depends on the distance of the particles than does the energy of the ion binding in the glass phase. The correlation between these two kinds of energies also mainly determines the direction of the ion-exchange reaction. In the concentration of this energetic correlation that energy, occurring when the ion in entering the glass meets with a resistance of steric character, was not taken into account. As conclusion it was stated: in sodium glasses a transition from the basic sodium function to the

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The Theory of Glass Electrodes. VIII. The Transition of Glass Electrodes  
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function of potassium is possible. With potassium glasses a transition from the potassium function to the sodium function is possible. The transition from one metal function to the other is explained by means of the ion-exchange theory. Based on the hypothesis of the ion-exchange theory of the glass electrode the exchange constant for 4 aluminum-borosilicate glasses was calculated. It was found that in the exchange reaction

$$\text{Na}^+(\text{glass}) + \text{H}^+(\text{solution}) \rightleftharpoons \text{Na}^+(\text{solution}) + \text{H}^+(\text{glass})$$

the equilibrium constant for the investigated sodium-aluminum-borosilicate glasses is greater by 12 orders of magnitude than in the case of 9C-1 glass. The values of constants computed here prove the order arranged in Reference 1 for kations of alkaline metals after their action on the sodium- or potassium function of glass electrodes. The anomalous position of lithium in this order was discussed here from the viewpoint of the energetic correlations in the ion-exchange process. There are 2 figures, 4 tables, and 15 references, 7 of which are

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76-32-2-6/38

The Theory of Glass Electrodes. VIII. The Transition of Glass Electrodes  
From a Metal Function to Other Functions

Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova  
(Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: July 6, 1956

1. Glass electrodes--Properties
2. Ion exchange--Theory
3. Glass electrodes--Exchange reactions

Card 4/4

ПЕШЕКХОНОВА, Н. В.

NIKOL'SKIY, B.P.; SHUL'TS, M.M.; PESHEKHONOVA, N.V.

Theory of glass electrode. Part 8: Transition of glass electrodes  
from one metallic function to another [with summary in English].  
Zhur. fiz.khim. 32 no.2:262-269 F '58. (MIRA 11:4)

1.Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.  
(Electrodes, Glass)

NIKOL'SKIY, B.P.; SHUL'TS, M.M.; PESHKHOVA, N.V. (Leningrad).

The theory of the glass electrode. Part 7: The effect of foreign ions on sodium and potassium functions of glass electrodes [with summary in English]. Zhur. fiz. khim. 32 no.1:19-26 Ja '58.

(MIRA 11:3)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.  
(Electodes, Glass) (Ions)

PESHEKHONOVA, N. V.

Dissertation: "Transition of Glass Electrodes From One Metallic Function to Another."  
Dokl. Akad. Nauk SSSR, Ser. Chem. Sci., Leningrad State U, Leningrad 1953.

W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (~~1979933~~)

PESHENKO, L.

Improve the methods of commercial operations. Sov.torg. no.1:30-33  
Ja '58. (MIRA 18:12)

1.Upravlyayushchiy Khar'kovskoy bazoy Glavkul'torga.  
(Kharkov--Wholesale trade)



BLOKH, A.Sh.; PESHES, L.Ya.

Logical program for the synthesis of commutation circuits. Sbor.  
trud. Inst. mash. i avtom. AN BSSR no. 1:141-146 '61. (MIRA 16:5)  
(Electronic circuits)

35330  
S/194/62/000/001/002/066  
D201/D305

16.6800 (1250, 1327, 1329)

AUTHORS: Blokh, A. Sh. and Peshes, L. Ya.

TITLE: A logic program for the synthesis of switching circuits

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika. no. 1, 1962, abstract 1-1-9 ch (Sb. tr. In-t mashinoved. i avtomatiz. AN BSSR, 1961, no. 1, 141-146)

TEXT: A logic program for the canonical method of synthesis of switching systems having a minimum number of contacts, is given. The Boolean function of  $n$  variables is given in the form of an empty set of values  $(\alpha_0, \alpha_1, \dots, \alpha_{2^n-1})$ , where  $\alpha_i = 0, 1; i = 0, 1, \dots, 2^n-1$  and a null transposition  $(\beta_1, \beta_2, \dots, \beta_n); (\beta_i = 1, 2, \dots, n; \beta_i \neq \beta_j \text{ for } i \neq j; i, j = 1, 2, \dots, n)$ , determining the order of sequence of variables  $x_1, x_2, \dots, x_n$ . The operator of synthesis  $A$  is considered. The  $i$ -th set  $(\alpha_0, \alpha_1, \dots, \alpha_{2^n-1})$  is

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A logic program for ...

split from left to right into pairs. To every pair a number  $\lambda_1$  is made to correspond such that  $\lambda_1 = \begin{cases} 0, & \text{if the pair is } (0,0) \\ 1, & \text{if the pair is } (1,1) \end{cases}$ . All  $\lambda_1$  constitute an orderly set in accordance with the order of pair sequence. Depending on the existence of pairs, numbers  $\delta_1$  are determined. The set  $\lambda_1$  is again split into pairs, with the corresponding number  $\lambda_2$  and numbers  $\delta_2$ , for the unregistered pairs are found again (the  $\lambda_2$  set is processed analogously and numbers  $\lambda_3$  and  $\delta_3$  determined, and so on). Having found  $\lambda_n$  and  $\delta_n$  the sum

$\sum_{i=1}^n \delta_i = m_1$  is determined. The minimum contact system is chosen by using the operational transpositions. By applying the operators consecutively to the original transposition  $(B_1, B_2, \dots, B_n)$  all

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A logic program for ...

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$n!$  transpositions are obtained. For finding the set, the operators of set transpositions are applied. In order to obtain all possible transpositions and sets the operators are applied consecutively to the original set and transposition. The comparison operator is used for choosing a set and the corresponding transposition (with a minimum number of elements). By applying the operators consecutively to the original set and transposition, the minimum circuit may be chosen for all possible element transpositions. It is shown that a full scale calculation for a large number of variables takes considerable operating machine time. This was the reason for setting up the program for partial excess only. The logic program of the above partial excess satisfying the condition  $1 < \log_2 n < 4$ , is given. 1 reference. [Abstracter's note: Complete translation.]

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Card 3/3

ACC NR: AP7002239 (A) SOURCE CODE: UR/0280/66/000/006/0093/0097

AUTHOR: Peshes, L. Ya.; Stepanova, M. D.

ORG: none

TITLE: Method of determining limit loads for performing of accelerated tests

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 6, 1966, 93-97

TOPIC TAGS: limit load determination, reliability test, limit load algorithm

ABSTRACT: A method of determining the limit load is proposed for accomplishing reliability testing in the shortest time possible. A time reduction is achieved by using more rigid conditions (as compared to those in exploitation) to increase the rate of destruction. It is based on general rules pertaining to loss of efficiency by various types of manufactured objects. The algorithm for finding the limit load is presented. Orig. art. has: 2 figures and 6 formulas. [Based on authors' abstract] [DW]

SUB CODE: 09/ SUBM DATE: 3Mar66/ ORIG REF: 003/

Card 1/1

VIL'NER, Bertol'd Yakovlevich; DOROSHEVICH, Engel's Konstantinovich;  
PESHES, Leonid Yakovlevich; VEYNIK, A.I., nauchn. red.

[Essays on cybernetics] Ocherki po kibernetike. Minsk, Nauka  
i tekhnika, 1965. 154 p. (MIRA 18:3)

1. Chlen-korrespondent AN Belorusskoy SSR (for Veynik).

PESHES, Ya.O.

Use of improved circuits in the municipal electric power  
distribution networks of the White Russian S.S.R. Trudy  
LIEI no.51:299-314 '64.

(MIRA 18:11)

PECHEV, G. [Peshev, G.]

*Eupholidoptera bey-bienkoi* n. sp. (Orthoptera, Tettigoniidae) of  
Bulgaria. Doklady BAN 15 no.5:547-550 '62.

1. Note présentée par Iv. Bouressch [Buresh, Iv.], membre  
de l'Académie.



PESHEV G.

BULGARI. / General and Special Zoology. Insects. P  
Systematics and Faunistics.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 63835.

Author : Buresh, I.; Peshev, G.  
Inst : Zoological Institute of the Bulgarian AS.  
Title : The species Composition and Distribution of  
Orthoptera in Bulgaria. Part 2.

Orig Pub: Izv. Zool. in t Bulg. AN, 1957, kn. 6, 305-356.

Abstract: No abstract.

Card 1/1

FESHEV, G.: KALEEV, V.

"What the economic analysis of the cooperative farm in the village of Stavertsi indicates"

Otchetnost i Kontrol V Selnkoto Stopanstvo. Sofia, Bulgaria. Vol. 3, no. 8, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

PESHV, G.

Conference on methods and techniques of controlling beds by afforestation and construction of bank protection.

p. 284 (GORSKO STOPANSTVO) Vol. 13, no. 6, June 1957,  
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) IC, Vol.7, No. 3,  
March 1958

PESHEV, G.

"The gathering and preserving of acorns is an important problem." p 316, (GORSKO  
STOPANSTVO, Vol 3, #7, Sept 1952, Bulgaria)

SO: Monthly List of <sup>East European</sup> ~~RUSSIAN~~ <sup>Vol 2 #8</sup> Accessions / Library of Congress, August 1953, Uncl.

PESHEV, G.

PESHEV, G. Composition and spread of the straight-wing insects( rthoptera) in Bulgaria; with reference to the injurious grasshoppers. p. 3  
Vol. 4/5, 1955 IZVESTIYA., Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PESHEV, G.

PESHEV, G. Material contributing to the clarification of the zoogeographic characteristics of the Rose Valley and the surrounding mountains. p. 435. Vol. 4/5, 1955 IZVESTIYA., Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PESHEV, G.

"Let us Accomplish at a High Level the Gathering and Preservation of Seeds This Autumn."  
p. 322. (Gorsko Stopanstvo. Vol. 9, no. 7, Sept. 1953. Sofiya.)

SO: Monthly List of East European Vol. 3, No. 6 Library of Congress, June <sup>4</sup> 1957, Uncl.

PESHEV, G.

"The forest grasshopper in Bulgaria and the fight against it" (p.41) PERIODA  
(Bulgarska Akademiia Na Naukite) Sofiya Vol 2 No 5 sept/Oct 1953

SO: East European Accessions List Vol 3 No 8 Aug 1954



PESHEN, G.

"Forest grasshopper (*Isometopos agrorum*) and the fight against it" (1954)

GROSKO STOFANSTVO

(Upravlenie Na Gorskoto Stofanstvo Kus. Ministerskiiia Savet) Sviyaz Vol 10 No 1 Jan 1954

SO: East European Accessions List Vol 2 No 7 Aug 1954

PESHEV, G.P.

Composition and ecologic distribution of Orthoptera of  
Belasitsa Mountains. Izv Zool inst BAN no.12:59-107 '62.

BEY-BIENKO, G. IA.; PESHEV, G. P.

A study of the fauna of orthopters (Orthoptera) in Bulgaria. Izv  
Zool inst BAN 9:3-51 '60. (KEAI 10:9)

(Bulgaria--Orthoptera)

PESHEV, G. P.

Contribution to the study of Orthoptera in Bulgaria. Izv Zool inst  
BAN 9:347-353 '60. (EEAI 10:9)

(Bulgaria--Orthoptera)

Bulgaria/General Division. Scientific Institutions A-3

Abs Jour : Ref Zhur-Biologiya, No 3, 1958, 9295

Author : Georgi P. Pashev

Inst :

Title : Impressions of the Natural Science Museums of Hungary

Orig Pub : Priroda (Bolg) 1958, 5, No 1, 98-104

Abstract : In a detailed description of the museums it is pointed out that the museums usually comprise two sections: a Scientific-Research and an Exhibition sections. Considerable space is given to the description of the Natural Science Section of the National Museum of Hungary.

Card 1/1

USSR/General Division. Scientific Institutions A-3

Abs Jour : Ref Zhur-Biologiya, No 3, 1958, 9295

Author : None given

Inst : Moscow Society of Investigators of Nature  
Title : The Activities of the Hydrobiology and Ichthyology Section of the Moscow Society of Investigators of Nature in the Period February-April 1956.

Orig Pub : Byul. Mosc. o-va izyut. prirody. Otd. Biol., 1956, 51, No 5, 100-111

Abstract : During the indicated period a report was given by Ya. I. Starobogatov entitled "Some Data on the Classification and Geographical Distribution of Planorbis in the USSR"; a discussion was held of the report by V. P. Krystanovskiy on "The Significance of the Concepts on the

Card 1/2

BOYANOV, L.

Bulgaria

No degree listed

Member of the Higher Medical Institute (Vissh Meditsinski Institut), Sofia

Sofia, Dermatologiya i Venerologiya, supplement of Suvremenna Meditsina, No 1, 1962, pp 34-38

"Elastorrhexis Systematisata"

Co-authors:

GRIGOROV, I., Higher Medical Institute, Sofia  
ATSEV, E., Higher Medical Institute, Sofia  
PESHEV, I., Higher Medical Institute, Sofia  
DENEV, V., Higher Medical Institute, Sofia

PESHEV, Iv.; SIMONOV, S.

On the clinico-metabolic picture of acquired toxoplasmosis.  
Nauch. tr. vissh. med. inst. S. filia 43 no. 3:45-51 1964.

I. Chair of Neuropathology and Psychiatry (Director: prof.  
A. Nikolaev); Chair of Experimental Medicine (Director: prof.  
Iv. Yankov) Sofia Medical Institute, S. filia.

BULGARIA

PESHEN, Iv., Department of Roentgenology and Radiology, Higher Medical  
Institute in Sofia (head: Prof A. NIKOLAEV); and SEDLOEV, Sv., Department of  
General Surgery (head: Prof G. POPOV) Morphological

"Pneumothyreography and Tomopneumography for Demonstrating  
Changes in the Thyroid."  
Sofia, Rentgenologiya i Radiologiya, Vol 5, No 2, 1966, pp 121-126

Abstract [authors' Russian and English summaries, modified]: The significance  
is discussed of pneumothyreography and tomopneumography in evaluat-  
ing morphological changes of the thyroid. The method is especially useful in  
combination with tomography. The dimensions and aspect of the struma, its size,  
configuration, the number of nodules, its relation to adjacent tissues and or-  
gans can be demonstrated much more surely than with ordinary clinical methods.  
This is particularly important from the viewpoint of indications for surgery,  
the approach, and the extent of surgical intervention. Changes are distinguish-  
ed also in adjacent organs (larynx, trachea, esophagus and soft tissues).  
With pneumothyreography, especially in combination with tomography, tumorous  
changes in some of the parathyroid glands could be demonstrated, which would

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Sofia, Rentgenologiya i Radiologiya, Vol 5, No 2, 1966, pp 121-126

not have been possible with ordinary physical methods of investigation. When the contraindications are observed, the method is not dangerous. Its application is easy, and it should be used more widely in practice. Two Western and five Soviet-bloc references. Manuscript received in Jan 66.

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- 195 -

SEDLOYEV, S.; PESHEV, I.; MILEV, M.

Mediastinal echinococcosis. Vest. knir. no. 6:10-14 '65.  
(MIRA 18:12)

1. Iz kafedry khirurgicheskikh bolezney a urelogiyey (zav. -  
prof. G. Popov) i kafedry rentgenologii i radiologii (zav. -  
prof. A. Nikolayev) Vyshego meditsinskogo instituta, Sofiya.

GRIGOROV, I.; PESHEV, Iv.

Intrathoracic changes in Darier's disease. Dermat vener  
Sofia 1 no.1:39-44 '62.

1. Iz Katedrata po kozhni i venericheski bolesti pri  
VMI, Sofia (Rukov. na katedrata prof. L. Popov) i  
Katedrata po rentgenologija pri VMI, Sofia (Rukov. na  
katedrata prof. A. Nikolaev).
2. Chlen na Redaktsionen suvet, "Dermatologija i venerologija"  
(for Grigorov).

PESHEV, Iv.; SHEIRETOVA, E.

Roentgenological picture of pulmonary lymphogranulomatosis.  
Nauch. tr. vissh. med. inst. Sofia 42 no.6:109-123 '63

1. Predstavena ot prof. A.Nikolaev, rukovoditel na Katedrata  
po rentgenologija i radiologija.

\*

PESHEV, Iv.

GRIGOROV, I.

Bulgaria

No degree listed

Department of Skin and Venereal Diseases of the Higher Medical Institute (Vishh Meditsinski Institut), Sofia; Department Head: Professor L. POPOV. Department of Roentgenology of the Higher Medical Institute, Department Head: Professor A. NIKOLAYEV

Sofia, Dermatologiya i Venerologiya, supplement of Suvremenna Meditsina, No 1, 1962, pp 39-44.

"Intrathoracic Changes in Darier's Disease"

Co-author:

PESHEV, Iv., Department of Skin and Venereal Diseases of the Higher Medical Institute, Sofia; Department of Roentgenology of the Higher Medical Institute.

PESHEV, I., dotsent; SEDLOEV, Sv.

Diagnostic value of tomopneumomediastinography. Khirurgia 15  
no.9/10:918-920 '62.

1. Iz Katedrite po rentgenologija i fakultetska khirurgia  
pri VMI [Vissh meditsinski institut] - Sofia.  
(PNEUMOMEDIASTINUM DIAGNOSTIC)  
TOMOGRAPHY)

PESHEV, Iv.; ZHELIAZKOV, A.; IKONOMOV, G.

Roentgen diagnosis of esophageal fistulas. Khirurgia (Sofia)  
16 no.7:599-606 '63.

1. Vissh meditsinski institut - Sofia, Katedra po rentgenologiya i radiologiya, Rukovoditel na katedrata: prof. A. Nikolaev.  
(ESOPHAGEAL FISTULA) (BRONCHIAL FISTULA)  
(THORACIC RADIOGRAPHY) (DIAGNOSIS)

PESHEV, Iv.

On certain diagnostic errors in pulmonary cancer clarified by tomography. *Suvrem med.*, Sofia no.12:3-16 '60.

Iz Katedrata po rentgenologija i radiologija pri VMI, Sofia  
(Rukov. na katedrata prof. A.Nikolaev)  
(LUNG NECPLASMS radiog)



PESHEV, I

Peshev, I. Distribution of income on cooperative farms. p. 6,  
KOOPERATIVNO ZEMEDELIE. Sofiya. Vol. 10, no. 7, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
no. 10, Oct. 1955, Uncl.

PESHEV, I.

Distribution of income on cooperative farms. p. 6.  
KOOPELATIVNO ZEMEDELIE, Sofiya, Vol. 10, no. 7, July 1955.

SC: Monthly List of East European Accessions, (MEAL), L., Vol. 4, no. 10, Oct. 1955,  
Uncl.

PESHEV, I.

PESHEV, I.; KIROV, P.

Case of gastric torsion, diverticulosis, and peristosis. Suvrem.  
med., Sofia 5 no.1:108-113 1954.

1. Iz Rentgenovii institut pri Meditsinskata akademii Vulko  
Chervenkov, Sofia (direktor: prof. A.Nikolaev).  
(STOMACH, diseases,

\*torsion, with diverticulosis & peristosis)

(DIVERTICULOSIS, complications,

\*stomach torsion & peristosis)

*PESHEV I.V.*  
POPMIKHAILOV, D.; PESHEV, Iv.

Roentgen diagnosis of polyposis of the stomach. Suvrem. med.,  
Sofia 7 no.10:106-115 1956.

1. Iz Katedrata po rentgenologija i radiologija pri VMI -  
Sofia (Zav. katedrata: prof. A. Nikolaev).

(STOMACH NEOPLASMS, diag.

polyposis, x-ray diag.)

(POLYPI, diag.

stomach, x-ray diag.)

PESHEV, Iv.

X-ray aspects of intrathoracic changes in Besnier-Boeck-Schaumann disease. Suvrem. med., Sofia 8 no.12:68-77 1957.

1. Iz Instituta po rentgenologija i radiologija pri VMI--Sofia (Zav. katedrata; prof. A. Nikolaev).

(SARCOIDOSIS, pathol.

intrathoracic, x-ray aspects (Bul))

PESHEV, I.; BALABANOV, V.

Changes in the lungs probably caused by trichophytosis. Vest.  
rent. i rad. 38 no.5:68-69 S-0'63 (MIRA 16:12)

1. Iz kafedry rentgenologii i radiologii (rukovoditel' - prof.  
A.Nikolayev) i kafedry kozhnykh i venericheskikh bolezney  
(rukovoditel' - prof. L. Popov) Vysshego meditsinskogo insti-  
tuta, Sofiya.

BOIANOV, L.; GRIGOROV, I.; ATSEV, E.; PESHEV, I.; DENEV, V.

Paraclinical picture of elastorrhexis systematizata.  
Dermat vener Sofia 1 no.1:34-38 '62.

1. Iz Visshia meditsinski institut, Sofia.
2. Sekretar i chlen na Redaktsionnata kolegiia, "Dermatologia i venerologia" (for Boianov).
3. Chlen na Redaktsionen suvet, "Dermatologia i venerologia" (for Grigorov).

GELINOV, K.; PESHEV, I.; GOLEMANOV, V.

Case of ornithosis. Suvrem. med., Sofia 8 no.12:109-113 1957.

1. Iz Klinikata po bolnichna terapiia pri VMI-Sofia (Zav. katedrata; prof. Al. Pukhlev) i Instituta po rentgenologija i radiologija pri VMI --Sofia (Zav. katedrata: prof. A. Nikolaev).

(ORNITHOSIS, differ. diag.  
pneumonia, atypical (Bul))

(PNEUMONIA, differ. diag.  
ornithosis, from atypical (Bul))



NIKOLAEV, A.; PESHEV, I.; ELENICHEV, T.

On calcified echinococcal cysts localized in abdominal tissues and organs. *Khirurgiia* (Sofia) 14 no.10:873-882 '61.

1. Vissh meditsinski institut, Sofiia katedra po rentgenologii i radiologii Zav. katedrata: prof. A. Nikolaev.

(ABDOMEN dis) (ECHINOCOCCOSIS radiog)

PESHV, IV.

USHV, Iv.; PESHV, Iv.

Gastric and duodenal diverticula. Suvrem. med. Sofia 5 no.5:101-105 1954.

1. Iz Katedrata po rentgenologija pri Meditsinskata akademija V.Chervenkov, Sofia (sav.: prof. A.Nikolaev)  
(STOMACH, diverticula,)  
(DUODENUM, diverticula,)  
(DIVERTICULOSIS,  
duodenum & stomach)

PESHEV, Iv.

PESHEV, Iv.; GELINOV, Khr.

Localization of crupous pulmonary infiltrations. *Sovrem. med.*,  
Sofia 5 no.1:57-69 1954.

1. Iz Instituta po rentgenologija (direktor: prof. A.Nikolaev)  
i Katedrata po bolnichna terapiia (direktor: prof. A.Pukhlev) pri  
Međitsinskata akademiia V.Chervenkov, Sofia.  
(PNEUMONIA, IOBAR,  
\*x-ray)

DIMITROV, St.; TIENEV, St.; BERCHEV, Kr.; POPMIKHAILOV, D.; PESHEV, Iv.

On the nature, development and complex therapy of breast cancer.  
Nauch. tr. vissh. med. inst. Sofia 40 no.4:1-22 '61.

1. Predstavena ot prof. St. Dimitrov - ruk. na Katedrata po khirurgichni zaboliavania s ortopediia i travmatologiia prof. B. Kurdzhiev - zav. Katedrata po patologichna anatomiia i prof. A. Nikolaev - zav. Katedrata po rentgenologiia i radiologiia.

(BREAST NEOPLASMS)

PESHEV, Iv.

Our experience with the use of tomography for the diagnosis of pulmonary cancer. Nauch. tr. vissh. med. inst. Sofia 40 no.1:233-258 '61.

1. Predstavena ot prof. A. Nikolaev, rukovod. na Katedrata po rentgenologija.

(LUNG NEOPLASMS radiog)

KEVORKIAN, Agop, dotsent; PESHEV, Khristo, inzh.; SELIMINSKI, Ivan, inzh.

For the improvement of uniformity of the long pieces in worsted spinning. Tekstilna prom 11 no.1:6-12 '62.

Peshev, Kh.

Properties of synthetic fibers and possibilities for their utilization. p.7

TEKSTILNA PROMISHLENOST, Sofia, Bulgaria, Vol. 8, no. 4, 1959

Monthly list of East European accessions (EEAI) LC. Vol. 8, no. 10, Oct. 1959  
Uncl.

KEVORKIAN A., prof.; DAMIANOV, G., dotsent; NIKOLOV, I., inzh.; ATANASOV, Iv.,  
inzh.; CHEKMEZHIEV, M., inzh.; PESHEV, Khr., inzh.; SHERVINDINEV, At.,  
inzh.; PANOV, Al., inzh.

Introduction of the tex system in the textile industry in Bulgaria.  
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ther. (Bul))

I 39736-65 EWT(1)/MT(m)/T/EMA(h) Pz-6/Feb IJP(c) AT S/0195/65/006/001/0095/0107 33

ACCESSION NR: AP5006776

AUTHOR: Volkenshteyn, F. F., Peshev, O.

TITLE: The electron factor in the kinetics of chemisorption on semiconductors 21

SOURCE: Kinetika i kataliz, v. 6, no. 1, 1965, 95-107

TOPIC TAGS: chemisorption, kinetics, semiconductor

ABSTRACT: The kinetics of chemisorption on semiconductors is investigated within the framework of the electron theory. It is assumed that the particles which are held by chemical forces are of the acceptor type. In other words these particles may be electrically neutral (weak surface interaction) or negatively charged (strong surface interaction) and may pass from one state to the other. Let  $N^0 = N^0(t)$  and  $N^- = N^-(t)$  be the surface concentrations of the neutral and the negatively charged particles respectively, while  $N(t) = N^0(t) + N^-(t)$  is the total number of chemisorbed particles of a given type on a unit of the surface at a given time  $t$ . If a state of electron equilibrium exists on the surface at the time  $t$ , the relative content of the charged and neutral forms of chemisorption on the surface at this moment is given by the Fermi-Dirac statistical formulas:

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$$\eta^-(t) = \frac{N^-(t)}{N^-(0)} = \left[ 1 + \exp \frac{e_2^-(t) - e^-}{kT} \right]^{-1} = \left[ 1 + \exp \frac{e_2^-(t) - e_2^-(0)}{kT} \right]^{-1}$$

$$\eta^+(t) = \frac{N^+(t)}{N^+(0)} = \left[ 1 + \exp \frac{e^+ - e_2^+(t)}{kT} \right]^{-1} = \left[ 1 + \exp \frac{e_2^+(t) - e^+}{kT} \right]^{-1} \quad (1)$$

The notation used here will be clear from an examination of Fig. 1 of the Enclosure which gives the band diagram of a semiconductor with a negatively charged surface:  $A$  is the localized level of the chemisorbed particle;  $FF$  is the Fermi level. The average lifetime of a particle in the chemisorbed state is designated by  $\tau$ , while  $\tau^0$  and  $\tau^-$  designate the average lifetimes of neutral and charged chemisorbed particles. The authors show that condition (1) may be considered approximately fulfilled only when  $t$  is much greater than  $\tau^-$ , i.e. a state of electron equilibrium is reached on the surface during adsorption if  $\tau^0, \tau^- \ll \tau$  while in the opposite limiting case  $\tau \ll \tau^0, \tau^-$  electron and adsorption equilibrium states are reached simultaneously. In the latter case, the energy of adsorption activation depends on the electron state of the system. One or the other of these two limiting cases may occur depending on the nature of the adsorbent and the adsorbate.

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Desorption kinetics is also studied (pressure maintained at zero). In the first limiting case, electron equilibrium is maintained during desorption (desorption is complete in this case). However in the second limiting case electron equilibrium breaks down during desorption. Desorption in this case is only partially completed (the case of partially irreversible adsorption). The relative content of reversible and irreversible forms of chemisorption on the surface depends on the nature of the adsorbent. Adsorption and desorption kinetics are examined in detail for these two cases. Orig. art. has: 3 figures, 40 equations.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, Academy of Sciences SSSR); Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Department of Physics, Moscow State University)

SUBMITTED: 20Feb64

ENCL: 01

SUB CODE: GC, EC

NO REF SOV: 003

OTHER: 010

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(EEAI 10:9)

(Silver) (Catalysts) (Atmosphere)



PESHEV, Ornyan

~~Surname (in caps), Given Names~~

Country: Bulgaria

Academic Degrees: not indicated

Affiliation: " "

Source: Sofia, Biologiya i Khimiya, No 2, 1961, pp 1-3

Data: "The Pseudo Problem of the Thermal Death of the Universe."

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S/081/62/000/017/060/102  
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AUTHORS: Peshev, P. D., Ts"rnorechki, Ogn.St.

TITLE: Determining the optimum conditions for thermal processing of  
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PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 378, abstract  
17K208 (Izv. N.-1. in-t kinematogr. i radio, v. 2,  
1959-1960 (1961), 53-67 [Bulg.; summaries in Russ. and Ger.] )

TEXT: [Abstracter's note: Complete translation.]

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S/081/62/000/017/061/102  
B150/B106

AUTHORS: Peshev, P. D., Ts"rnorechki, Ogn.St.

TITLE: Differential thermal analysis of raw materials for  
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hysteresis loops

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 378, abstract  
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