

SUFFCZYNSKI, MACIEJ

Category : POLAND/Solid State Physics - Solid State Theory. Geometric
Crystallography

E-2

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3666

Author : Suffczynski, Maciej

Inst : University of Warsaw, Poland

Title : Energy Integrals for 3d Electrons in Body-Centered Iron.

Orig Pub : Acta phys. polon., 1955, 14, No 6, 493-495

Abstract : Six energy integrals with 3d functions of the central atom in α -iron, the next nearest atom, and the following atom were calculated in the strong-coupling approximation. The integrals were reduced to bipolar integrals, containing functions with ϵ , π , and δ symmetry relative to the line joining the central atom with its neighbor. Each integral was calculated as the difference between the integral over the entire space and the integral over the sphere of the central atom, the radius of which was taken to be half the distance between the central and nearest atoms. It is noted that the results of calculations are somewhat too high because exchange was neglected.

Card : 1/1

POLAND/Atomic and Molecular Physics - Physics of the Atom.

D-1

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11353

$$\left. \begin{array}{l} (dd\sigma) \\ (dd\pi) \\ (dd\delta) \end{array} \right\} = \int_{\lambda \in R} d_3 x e^{-a\lambda} \frac{1}{\lambda'} e^{-b\lambda'} x$$

$$x \left\{ \begin{array}{l} \frac{1}{12} (3z^2 - r^2) (3z'^2 - r'^2) \\ (xz) (x'z') \\ (x\gamma) (x'\gamma'). \end{array} \right.$$

Card 2/2

SUFFOZYNSKI MACIEJ

POLAND/Solid State Physics - Solid State Theory

E-2

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10538

Author : Suffozynski Maciej
Inst : University of Warsaw, Poland
Title : Two-Center Integrals in Solids

Orig Pub : Acta phys. polon., 1956, 15, No 5, 287-294

Abstract : Calculations are given for the matrix elements of the potential energy in transition metals, constructed on wave functions of the 3-d electrons, belonging to the nearest-neighbor atoms. The integrals were calculated for the wave functions of the 3-d electrons, having σ , π , and δ type of symmetry about the axis joining the central atom with the neighboring atoms. The potential energy is in the form of a Coulomb screening potential outside the atomic sphere, surrounding the central atom, and equals zero inside this sphere. Expressions were obtained for two-center integrals can be used for the calculation of the energy bands of the 3-d electrons in transition metals.

Card : 1/1

SUFFCZYNSKI, M.

POLAND/Nuclear Physics - Nuclear Reactions

C-5

Abs Jour : Ref Zhur - Fizika, No 7, 1958, No 15114

Author : Suffczynski M.
Inst : Institute of Physics, Polish Academy of Sciences, Poland
Title : The Disintegration of Deuterons by Electrons

Orig Pub : Bull. Acad. polon. sci., 1957, cl. 3, 5, No 9, 887-891

Abstract : The author calculates the polarization of protons during disintegration of deuterons by unpolarized electrons. The nucleons were assumed to be point particles, and the electromagnetic interaction was considered in the dipole approximation. The magnitude of the polarization depends substantially on the type of interaction between the neutron and the proton. The maximum polarization reaches 28%, if one assumes the nuclear forces to be central, with a zero radius of action.

Card : 1/1

3

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653730008-8"

SUFFCZYNSKI, M.

On the width of the 3d electron band in iron. In English. p. 161.

(Acta Physica Polonica. Vol. 16, no. 1/2, 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (..EAL) LC, Vol. 6, no. 10, October 1957. Uncl.

S. UFFCZYNSKI, M.

Distr: 4E2c

A model for investigation of the optical properties of noble metals. M. Suliczynski. (Univ. Warsaw). *Bull. acad. polon. sci., Sér. sci. math., astron. et phys.* 7, 109-73(1959)(in English).—The free-electron approxn. is improved by considering a 2-band model. The energy surface of occupied states has been taken as that of const. Fermi energy, and the extinction coeff., k , was calcd. by adding dielec. coeff. and absorption coeff. to the resp. Drude coeffs. The momentum matrix elements were assumed to be const. The curves k/λ vs. wave length, λ , were compared for Cu and Ag with Schulze's (*Phil. Mag. Suppl.* 6, 102(1957)) exptl. results for λ 's of 0.2-3 μ . Various mutual positions of Fermi surface and Brillouin zone, are discussed. J. Stecki

MIASEK, M.; SUFFCZYNSKI, M.

Space group of white tin. I. Symmetry points. II. Symmetry lines and planes. Bul Ac Pol Mat 9 no.6:477-487 '61.

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

SUFFCZYNSKI, M.

Space group of white tin. III. Double group. *Bul Ac Pol Mat* 9 no.6:
489-495 '61.

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

MIASEK, M.; SUPFCZYNSKI, M.

Space group of white tin. IV. Basis functions for the irreducible representations at symmetry points. Bul Ac Pol Mat 9 no.8:609-615 '61.

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

SUFFCZYNSKI, Maciej

Numerical values of two-centre integrals for 3d electrons. Acta
physica Pol 20 no.12:845-955 '61.

1. Institute of Theoretical Physics, University of Warsaw, Warsaw.

(Electrons)

SUFFCZYNSKI, Maciej

Two-center integrals for 3d electrons in iron, cobalt and nickel.
Acta physica Pol 27 no.1:57-60 '65.

1. Institute of Theoretical Physics of Warsaw University.
Submitted June 5, 1964.

SUPPLEMENTARY MATERIAL

Diagnosis and differentiation of hypoglycemia in children.
Pediatr. Vol. 39 no. 8:989-991 Pg 994

SHARSKY, S.S.

Increasing the durability of blast furnace charging equipment
parts. Met. i gornorud. prom. no.4:72-73 JI-Ag '64. (MIRA 18:7)

SUFIK, B. I.

BARILENKO, V.P.; SUFIK, B.I.

Result of cooperation of a medical institute and a statistical board. Sov.zdrav. 16 no.5:12-17 My '57. (MLRA 10:7)

1. Iz kafedry organizatsii zdavookhraneniya (zav. - prof. B.M. Shklyar) Dnepropetrovskogo meditsinskogo instituta (dir. - dotsent D.P.Chukhriyenko) i Statisticheskogo upravleniya Dnepropetrovskoy oblasti (nachal'nik V.F.Prikhod'ko).

(VITAL STATISTICS,

cooperation of med. institutes with statist. boards in Russia (Rus))

S/0044/64/000/004/B088/B088

ACCESSION NR: AR4039841

AUTHOR: Sufiyev, T.

TITLE: Solution of the Cauchy problem for the multi-dimensional LAME equation by the Fourier integral method.

SOURCE: Ref. zh. Matematika, Abs. 4B384

TOPIC TAGS: Cauchy problem, Lame equation, multi dimensional, Fourier integral method

TRANS: The Cauchy problem for the system of equations

$$\frac{\partial}{\partial x_n} \sum_{p=1}^n \frac{\partial u_p}{\partial x_p} + \sum_{p=1}^n \frac{\partial^2 u_p}{\partial x_p^2} - \frac{\partial^2 u_p}{\partial t^2} = f_p,$$

$v = 1, 2, \dots, n$, is solved. The method of solution consists in transforming into $n+1$ Cauchy problems for the wave equation, which are solved by the method of means. I. Arzhany*kh

Card 1/2

SUFLARSKIY, S.S.

Hardening and restoring parts by automatic build-up welding. Met.
1 gornorud. prom. no. 5267-69 S-O '64. (MIRA 18:7)

CZERNIELEWSKI, Antoni; SUFLETA, Zofia

A case of Stevens-Johnson's syndrome in an 11-year-old girl. *Pediat. polska* 34 no.8:1096-1102 Aug 59.

1. Z II Kliniki Chorob Dzieci A. M. w Lodzi Kierownik: prof. dr. med.
Fr. Redlich i z Kliniki Dermatologicznej A. M. w Lodzi Kierownik: doc.
dr med. J. Lutowiecki.
(ERYTHEMA MULTIFORMS, in inf. & child)

BROZIK, Henryka; MOKRZYCKA, Hanna; SUFLETA, Zofia

Nutrition, care and physical development of infants in villages of the Radomsko county. *Pediat.polska* 34 no.11: 1461-1466 '59.

1. Z II Kliniki Chorob Dzieci A.M. w Lodzi. Kierownik: prof.dr. med. Fr.Redlich. Z I Kliniki Chorob Dzieci A.M. w Lodzi. Kierownik: doc.dr.med. K. Sroczynski. Kierownik Katedry: prof.dr.med. Fr. Redlich.

(INFANT NUTRITION)

(INFANT CARE)

(GROWTH in inf.& child.)

SUFLIARSKY, K., promovany ekonom

Assistance of the Czechoslovak Scientific Technical Society
of West Slovakia Region in the efforts for saving fuel and
power. Tech praca 14 no.5:383-384 My '62.

1. Tajemnik krajske rady Ceskoslovenske vedecko-technicke
spolecnosti, Bratislava.

SUPRIM, Eugenia, ing.

From the activity of the special illuminating laboratory
of the Institute for Military and Protection. Ener-
getica Ram II no. 1 : - 1/1/1954.

SUFRIM, M.

. Protection of electric installations in coal mines by grounding.

p. 38
Vol. 7, no. 1, Jan. 1956
REVISTA MINELOR
Bucuresti

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

SUFIM, M., ing.

Considerations on the efficiency of protection from
electric equipment with voltage up to 1000 V, by
grounding and by null connection. Energetica Rum
11 no.6:261-271 Je '63.

SUFRIM, M., ing.

Measures protecting from electrocutions by indirect contact.
Ind text Num 14 no.11:535-538. N°63

SUFRIN, I.

SUFRIN, I. Mechanism of the formation and the cause of favorable technical properties of the suspension of bitumen filler. p. 381.

Vol 3, no. 10, October 1956
REVISTA TRANSPORTURILOR
TECHNOLOGY
Bucuresti, Rumania

So: East European Accession, Vol 7, no. 3, March 1957

COUNTRY : Rumania H-23
 CATEGORY :
 ABS. JOUR. : RZKhim., No. 21 1959, No. 76135
 AUTHOR : Sofrin, I.
 INST. : Bucharest Polytechnic Institute
 TITLE : A Hypothesis Concerning the Structure of Paraffinic Bitumens
 ORIG. PUB. : bul Inst Politehn Bucuresti, 19, No 1-2, 115-126 (1957)
 ABSTRACT : The author has shown that high-grade bitumens can be prepared under laboratory conditions from paraffinic stocks by dissolution of the latter in kerosene at 70-80°, followed by slow cooling to -5° and filtration of the precipitate formed, after which the solution is steam distilled and the residue is oxidized. The author is of the opinion that the low quality of the bitumens obtained from paraffinic stocks is caused by the presence of ceresin. The boiling raw material

CARD: 1/2

CATEGORY :
 ABS. JOUR. : RZKhim., No. 21 1959, No. 76135
 AUTHOR :
 INST. :
 TITLE :
 ORIG. PUB. :
 ABSTRACT : contains the asphaltenes in finely dispersed form; the other components [sic] are present in the form of oil solutions. On cooling part of the asphaltenes coagulate; these act as centers of crystallization for the ceresin which forms particles visible to the unaided eye which prevent association of the bitumen micelles. This explains the nonhomogeneity of the bitumen obtained. When the base stock is dissolved in kerosene and the solution is cooled and filtered,

CARD: 2/3

BADEA

CABANIC, Ch., Professor; BUCHEA, G., MD; CILORIANU, D., MD;
MOCIS, I., Engr; SUPRIN, W., M.D.

Bucharest, Trigaz, No 6, Nov-Dec 63, pp 489-492

"Problems of Hygiene and Labor Protection on the Building
Sites in Bucharest."

(5)

RUMANIA

SUPRIN, Willi, Dr; BADEA, Lucia, Chemist

Analysis Laboratory of the Clinical Hospital "Polizu"
(Laboratorul de analize al Spitalului clinic "Polizu"),
Bucharest. (For all).

Bucharest, Viata Medicala, No 12, 15 Jun 63, pp 841-846

"Study of the Cytovaginal Smear In Exploring the Ovarian
Function."

(2)

KRUPIN, Aleksey Nikolayevich; SUPTIN, G.I., red.; BOL'SHAKOVA, L.A., tekhn.
red.

[Transformed region; socialist transformation of the Nenets National Area during the years of the Soviet regime] Preobrazhennyi kraj; sotsialisticheskie preobrazovania v Nenetskom natsional'nom okruge za gody sovetskoi vlasti. [Arkhangel'sk] Arkhangel'skoe knizhnoe izd-vo, 1957. 67 p. (MIRA 11:5)

1. Sekretar' Nenetskogo okruzhnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Krupin)
(Nenets National Area--Economic conditions)

11(0)

SOV/92-58-11-5/36

AUTHOR: Suf'yanov, A. Kh., Engineer

TITLE: Drilling Small Diameter Wells by Using the "Ufimets" Rig
(Bureniye skvazhin malogo diametra stankom "Ufimets")

PERIODICAL: Neftyanik, 1958, Nr 11, pp 6-7 (USSR)

ABSTRACT: In this article the author advocates a wider use of small diameter drills and supports his recommendations with a number of facts which prove that drilling with small diameter tools is much more economical. The first small diameter exploratory wells, 2000 m deep, were drilled in the Bashkir Republic by using the Ufimets rig in 1952. Since that time, hundreds of such wells, 1500 - 2000 m deep, were drilled with the aid of this rig, and many of them went into production either as free flow wells or pressure wells. The author state that turbine drilling is much more advantageous than rotary drilling and that the experience of the Oktyabr'skiy Geological Prospecting Office can be taken as proof. The use of the "Ufimets" rig produces excellent results and permits drilling crews to drill faster,

Card 1/2

DSVLETBAYEV, Dalgat Shagimardanovich; RAKHINKULOV, Rashit Shagizyanovich;
SUF'YANOV, Akhtyam Kharisovich; OSTASHEVSKAYA, G.A., red.;
GAYFULLIN, F.G., tekhn. red.

[Casing and completing slim and reduced-diameter slim wells]
Kreplenie i osvoenie skvazhin ummen'shennogo i malogo diametra.
Ufa, Bashkirskoe knizhnoe izd-vo, 1961. 81 p. (MIRA 14:12)
(Oil well drilling)

SUF'YANOV, A.Kh.

Using and manufacturing small diameter pipes. Neftianik 6
no.4:10-11 Ap '61. (MIRA 14:8)

1. Nachal'nik otdela bureniya Oktyabr'skoy geologopiskovoy
kontory.

(Pipe)

SUGAK, D.S. (Khabarovsk)

Far East Railroad now brings profit. Zhel. dor. transp. 43 no. 1:42-
47 Ja '61. (MIRA 14:4)

1. Nachal'nik Dal'nevostochnoy dorogi.
(Soviet Far East--Railroads)

total of 1017 individual gamma-quanta absorption histories were recorded. A special subroutine was prepared to generate pseudo-random numbers based on the selection of

method giving the higher values. Each program in the Monte Carlo method is identified in detail and represented in the form of simple formulae. Orig. art. has: 9 formulas and 3 figures.

NO REF SOV: 005

OTHER: 001

USE INDEX: 11
MA

Card 2/3

SUGAK, P.A., inzh.

Investigating causes of changes in the engineering indices
of the M-320 air distributor. Truly TSNII MPS no. 163:331-
348 '58. (MIRA 12:2)
(Railroads--Brakes) (Air pipes)

SHEVA, P. A., Cand Tech Sci -- "Study of the action of air spreaders during
the release^o of brakes in long trains." Mos, 1960 (Min of Railways USSR.
Mos Inst of Engineers of Railroad Transport). (XL, 1-61, 197)

BILIK, Sh.M., doktor tekhn. nauk; GNEZDILOVA, G.V., inzh.;
SUGAK, P.A., kand. tekhn. nauk

Plastic bushings for the friction pairs of automatic braking
sustems. Trudy TSNII NPS no.242:62-67 '62.

(MIRA 16:6)

(Plastics) (Railroads--Brakes)

SUGAK, P.A., kand. tekhn. nauk

Investigating the sensitivity to release of air distributors
in long trains. Vest. TSNII MPS 22 no.3:40-43 '63.

(MIRA 16:7)

(Railroads--Brakes)

SUGAK, P. A., kand tekhn nauk

Operative efficiency of air distributors at low temperatures.
Vest TSNIi MPS 23 no. 3:26-29 '64. (MIRA 17:5)

SUGAK, Viktor

Field Crops

Cooperation with science. Mol. kolkh., No. 2, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

PEKAR, S.I.; SUGAKOV, V.I. [Suhakov, V.I.]

On supplementary boundary conditions in the theory of additional
electromagnetic waves in crystals. Ukr.fiz.zhur. 7 no.11:1191-
1194 N '62. (MIRA 15:12)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.
(Boundary value problems) (Electromagnetiv waves)
(Crystals)

ACC NR: AP7000027

pend on the model of the local center, which determines only the relative energy of the center. If the distance from the level to the bottom of the band is smaller than the width of the band, then the intensity of the absorption should be rigorously determined. If the level is farther from the bottom of the band, then the absorption is affected by other factors (oscillator strength and polarization of the impurity molecule or of the host molecule). Orig. art. has: 46 formulas.

SUB CODE: 20/ SUBM DATE: 19May65/ ORIG REF: 014/ OTH REF: 001

Card 2/2

L 19162-63

ACCESSION NR: AP3005327

2

Wave functions and energy value of the finite crystal are required in either method. In this paper distant dipole-dipolar forces are examined during interaction of cells, and the distortion of several matrix elements at the crystal boundary are studied. The author uses the Heitler-London-Heisenberg method to find the energy and wave function of an exciton in a plane-parallel plate. Limits are drawn for the applicability of cyclical conditions. It is shown that the wave functions of body excitons are orthogonal to the wave functions of surface excitons. "The author expresses his deep thanks to academician S. I. Pekar for valuable comments and for guidance in the work." Orig. art. has: 36 formulas.

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

SUBMITTED: 12Mar63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 000

Card 2/2

ACCESSION NR: AP4034914

S/0181/64/006/005/1361/1368

AUTHOR: Sugakov, V. I.

TITLE: Excitons and electromagnetic waves in thin plates

SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1361-1368

TOPIC TAGS: exciton, electromagnetic wave, thin plate, optical property, polarization current, electromagnetic wave reflection, electromagnetic wave transmission

ABSTRACT: The influence of finite dimensions of a crystal on the optical properties near the region of exciton absorption was investigated. The problem considered was that of a plane-parallel sheet on which is normally incident an electromagnetic wave of frequency ω , near the absorption region of a fixed exciton band. The electromagnetic field in the sheet, which can be written as

$E(r, t) = E(r)e^{-i\omega t} + E^*(r)e^{i\omega t}$, induces a polarization current

$I(r, t) = J(r)e^{-i\omega t} + J^*(r)e^{i\omega t}$. Using first-order perturbation theory

Card 1/5

ACCESSION NR: AP4034914

$$k(n_3, n_3') = \frac{1}{N_1 N_2} \left[\alpha_{N_2}(t_1) t_1^{|n_3 - n_3'|} - \alpha_{N_2}(t_2) t_2^{|n_3 - n_3'|} - \beta_{N_2}(t_1) t_1^{n_3 + n_3'} + \beta_{N_2}(t_2) t_2^{n_3 + n_3'} \right],$$

$$\alpha_{N_2}(t) = \frac{(C + \Delta t)^2}{(1 - a^2)^{1/2} (\epsilon_0 - h\omega) [(C + \Delta t)^2 - (Ct + \Delta)^2 t^{2N_2}]},$$

$$\beta_{N_2}(t) = \alpha_{N_2}(t) - \frac{\Delta}{C} \frac{(C + \Delta t)}{[(C + \Delta t)^2 - (Ct + \Delta)^2 t^{2N_2}]},$$

where $t_{1,2} = \frac{-1 \pm \sqrt{1 - a^2}}{a}$ and $a = \frac{2C}{\epsilon_0 - h\omega}$. The matrix elements Δ and C were found in a previous work (V. I. Sugakov, FTT, 5, 2207, 1963.). The transmission of light through the plane-parallel sheet is considered for the case $\Delta = -C$. The incident wave is designated by $Ae^{i(k_x r - \omega t)}$, the reflected wave by $Re^{-i(k_x r + \omega t)}$, the transmitted wave by $De^{i(k_x r - \omega t)}$, and the waves in the crystal by

$$F_+ e^{i(k_x r - \omega t)}, F_- e^{i(k_x r - \omega t)}, E_+ e^{i(-k_x r - \omega t)}, E_- e^{i(-k_x r - \omega t)},$$

Card 3/5

ACCESSION NR: AP4034914

where

$$F = \frac{\operatorname{ctg} k_{-} l}{n_{+} + n_{-} q} + \frac{\operatorname{ctg} k_{-} l}{n_{-} + n_{+} \frac{1}{q}},$$

$$G = \frac{1}{(n_{+} + n_{-} q) \sin k_{+} l} + \frac{1}{(n_{-} + n_{+} \frac{1}{q}) \sin k_{-} l},$$

$$q = -\frac{(n_{+}^2 - \epsilon') n_{+}}{(n_{-}^2 - \epsilon') n_{-}},$$

$$l = N_3 a_3$$

and N_3 is the number of cells stacked in the thickness of the sheet. The author thanks Academician S. I. Pekar for discussion of the work and valuable comments. Orig. art. has: 60 equations and 2 diagrams.

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

SUBMITTED: 18Nov63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: SS,EM

NO REF SOV: 007

OTHER: 000

Card 5/5

PATRUSEV, V.I.; BATUYEVA, T.I.; BOGOMOLOV, N.A.; GANYUSHKINA, S.M.;
NAUMOV, M.P.; PAVLOVA, I.V.; PARYSHKIN, Yu.A.; POLUKHINA, A.V.;
SILANT'YEVA, K.G.; SUGANOVA, N.M.

Experiments in physiological evaluation of food rations. Uch.zap.
UrGU no.31:3-16 '59. (MIRA 14:5)
(Cattle--Feeding and feeds) (Proteins)

SUGAR, Anna, dr., a muszaki tudományok kandidátusa

Investigation of the movement of staple fibers in the drawing frame. Magy textil 14 no.3:97-99 Mr '62.

GANGLI, Boldizsar; SUGAR, Anna, dr.; TANKO, Jozsef

Operations preceding twisting and their effect on thread characteristics. Magy textil 17 no.2:49-54 F '65.

1. Research Institute of the Textile Industry, Budapest.

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CIA-RDP86-00513R001653730008-8"

HUNGARY

SUGAR, Dr Eva, X-Ray Clinic (Rontgonklinika) of the College of Medicine (Orvos-tudományi Egyetem) Budapest (Director of Clinic: Prof Dr Zoltan ZSEBOK).

"Importance of Angiography in a Case Connected with Trauma"

Budapest, Magyar Radiologia, Vol 18, No 6, Dec 66; pp 343-345.

Abstract: Author describes the case of a 79 year old female patient who had fallen off the stairs of a moving tramway. The injury required amputation of the right leg in the lower third of the thigh. The importance of angiographic examination in the case of this patient with severe arteriosclerosis is discussed. 5 References, of which 3 Hungarian, 1 West German, 1 Italian.

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CIA-RDP86-00513R001653730008-8

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CIA-RDP86-00513R001653730008-8"

✓ New facts regarding the use of bromine... 2

E. SUGAR

3-
201ay

✓ Bromatometric measurements. III. Bromatometric determination of ascorbic acid. L. Szekeres, E. Sugar, and E. Pap (Landwirtschaftlichen Univ., Budapest, Hung.). *Z. anal. Chem.* 163, 32-4 (1958); cf. *C.A.* 53, 1336. — Ascorbic acid can be detd. by titration with $KBrO_3$ soln. Mix 10 ml. of sample soln. with 10 ml. concd. HCl and dil. to 100 ml. Add 1 ml. starch soln. and 1 drop 0.1N KI. Titrate with 0.1N $KBrO_3$ soln. to the blue starch end point. ~~K. G. Stone~~

(u) The HCl must be at least 0.8N.

20
17

CIGAR, GN., "MIR", "

Determination of the number of power looms operated by a single worker from the viewpoint of increasing production and reducing prime cost in cotton-spinning mills. p. 412. (MAGYAR TEXTILTECHNICA, Budapest, Hungary), No. 11/12, Dec. 1954.

59: Monthly list of East European Accessions, (C-AL), IC, Vol. 4, No. 5, May 1955.

PALOCZ, I.; SUGAR, I.

On the formation of urinary calculi. Acta med. hung. 3 no.3:285-320
1952. (CLML 23:4)

1. Of the Urological Clinic of Budapest University and of the Electron-
Microscopy Laboratory of the Hungarian Academy of Sciences.

SUGAR, I

Check

Electron microscope study of structure of silica gels. I. Sugar and
 H. Guba (*Acta chim. hung.*, 1955, 7, 233-244).—A three-dimensional
 gel layer is supported on a metal film and the structure of the gel is
 examined as a continuum. It is shown that the gel skeleton consists
 of threads of a globular structure which form networks having a
 high degree of regularity and well-ordered bundles of filamentous
 formations. Pore diameter and pore length distributions are deter-
 mined by direct measurements of the micrographs and specific
 surfaces and pore volumes are calculated. The results show fairly
 close agreement with data derived from adsorption. Explanations
 are given for differences which are used in a discussion of the structure
 of the gels.

C. A. SLATER.

PM

3/20/50

Excerpta Medica Sec 16 Cancer Vol. 2/3 March 54

1171. SUGAR J. and KELLNER B. Dept. of path. Anat., med. Univ., Debrecen *Effect of acute and chronic nitrogen mustard treatment on the organs of the rat* Acta morphol. Acad. Scient. hung. (Budapest) 1953, 3/2 (233-253) Illus. 9

A histological report of the effect of N-mustard on the stomach, intestinal mucosa, lymph-apparatus, liver, lungs and kidneys in 60 white rats. Three forms of dosage were employed: (1) 1 single dose of 100 or 200 μ g. per 100 g. of body weight, (2) the same dose given daily for 3 or 4 consecutive days, and (3) 75 to 100 μ g. per 100 g. used for from 7 to 155 days. The compound acts on the nucleoprotein substance of the entire cell, as it damages not only the dividing cells, but also the resting cells. In dividing cells no phase has been found to prevail among the distorted mitotic forms. Cell destruction began 10 min. after the administration of the drug. One hr. later the nuclear substance became powder-like and subsequently agglutinated into coarse globules while the cells underwent destruction. The maximum effect occurred after 6 to 12 hr. The most severe changes were found in the mucosa of the duodenum; in the small intestine, colon and stomach they were gradually milder. The lymph-apparatus is almost equally sensitive. In the latter system the chromatin dissociated into globules, while in the epithelium decomposition through mitosis was also frequent. The lesions depend both on the quantity of the drug and the frequency of administration. Colchicin acts in a similar way, only the changes occur more slowly, reaching a maximum in 24 hr., and their regression is more rapid.

Dvořáček - Olomouc

SUGAR, Janos, Budapest XII, Rath Gy. u. 5 Hungary,; VIG, Edit, Debrecen 12
Közegészségtani Int. Hungary.

The effect of nitrogen mustard on the acridine orange uptake of
Ehrlich ascites tumor cells. Acta morph. hung. 6 no.1:15-24 1955

1. Dept. of Pathological Anatomy of the Medical University, Debrecen
Director Prof. B. Kellner.

(NEOPLASMS, experimental,

Ehrlich ascites carcinoma, eff. of nitrogen mustards
on acridine orange uptake)

(ACRIDINE DYES, metabolism,

Ehrlich ascites carcinoma cells, eff. of nitrogen mustards
on uptake)

(NITROGEN MUSTARDS, effects,

on Ehrlich ascites carcinoma acridine orange uptake)

661

CONT.

developmental stages of hepatic cancer; 1-144 hr. before death the animals were given for intravital staining a 1:15 dilution of sodium fluorescein in a dose of 10 ml./kg. body weight. After killing the liver and kidney were examined in UV light and under the fluorescence microscope. It was established that sodium fluorescein is retained by the necrotic and necrobiotic parts of the liver and therefore is longer excreted by kidneys of mice with necrotic livers than by those of controls. The behaviour of the dye in non-necrotic parts of regenerating hepatic cells, adenoma and carcinoma is the same as in non-affected livers of control mice. More detailed explanation of these phenomena will be the subject of further studies.

Albert - Wrocław (V, 16)

VENKEI, Tibor; SUGAR, Janos

Development of precarcinomas and carcinomas from skin fibromas.
Borgyogy. vener. szemle 10 no.4:146-156 July 56.

1. Az Orszagos Onkol. Intezet borgyogyaszati osztal. (vezeto:
dr. Venkei, Tibor) es onkopathol. osztalyanak (vezeto: dr.
Kellner, Bella egyetemi tanar) kozl.

(SKIN NEOPLASMS

fibroma, develop. into precarcinomas & carcinomas,
diag. & differ. diag. (Hun))

(FIBROMA

skin, develop. into precarcinomas & carcinomas (Hun))

(CARCINOMA

skin, develop. of fibromas into precarcinomas &
carcinomas, diag. & differ. diag. (Hun))

EXCERPTA MEDICA Sec 16 Vol. 5/9 Cancer Sept. 57

3592. VENKEI T. and SUGÁR J. Dermatol. Abt., Onkopathol. Inst., Budapest. Das Fibroepithelioma präemalignum Pinkus und auf der Basis von Fibroepitheliom sich entwickelnde Fälle von Carcinoma planocellulare Pinkus' premalignant fibroepithelioma and cases of planocellular carcinoma developing on the basis of fibroepithelioma Derm. Wschr. 1956, 134/42 (1136-1138) Illus. 3

Description and discussion of the histological picture of Pinkus' premalignant fibroepithelioma and a fibroepithelioma that has become malignant. The histological picture is shown in 3 illustrations. In the 1st case, the connective tissue showed wide atypical cones surrounded by infiltrations of ground cells; in the second case, undifferentiated pictures of squamous-cell carcinoma in the lower portion of the corium indicated malignancy. Kaden - Berlin

HUNGARY/Pharmacology and Toxicology
Preparations.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 9269
Author : Sugar, J., Velosy, G.
Inst : Hungarian AS
Title : Effect of Colchicine Upon the Reticuloendothelial System of the Liver
Orig Pub : Acta Morphol. Acad. sci. hung., 1957, 7, No 3, 307-317
Abstract : The activity of the RES of the liver was evaluated according to the accumulation of the injected collargol in Kupffer's cells. After a prolonged course of administration of colchicine to 21 rats (100-150 µ once in three days during 26-76 days, total 840-1,620 µ of colchicine), the accumulation of silver in the cells decreased by 17-40%. However, if between the cessation of the

EXCERPTA MEDICA Sec.5 Vol.11/4 General Pathology Apr 50

941. EFFECTS OF CARCINOGENIC HYDROCARBONS ON TUMOUR CELLS -
Sugár J. and Gáti E. Dept. of Oncopathol., State Univ. of Oncol.,
Budapest - ONCOLOGIA (Basel) 1957, 10/4 (347-355) Tables 3

The action of 3:4-benzpyrene, 1:2-benzpyrene, 20-methylcholanthrene and
1:2:5:6-dibenzanthracene on Ehrlich ascites tumours has been studied. Experiments
involving supravital staining of cells with acridine orange and the examination of
the localization of the hydrocarbons by fluorescent microscopy led to the conclusion
that these compounds exert a short-time damaging effect, which is also reversible.
Lisle - Durham (V, 16)

EXCERPTA MEDICA Sec 16 Vol 7/5 Cancer May 59

1886. **The precancerous and cancerous character of keratoacanthoma**
A keratoakanthoma praecarcinomás és carcinomás jellegéről. VESKEI T. and SUGÉR J.
Orsz. Onkol. Int., Budapest *Mag. Onkol.* 1958, 2/1 (1-16) Tables 1 Illus. 13

Keratoacanthoma is a distinct lesion, the diagnosis of which is easy. Its characteristic features are: rapid growth, hemispheric shape, central crater, presence of central horny mass, absence of necrosis or ulceration. Premicroscopic examinations reveal the irregular surface, missing skin design, superficial vessels of varying shape and course, all giving rise to a malignant appearance. The tumour most frequently occurs in individuals aged about 60 yr., on a skin displaying morbid alterations, often senile atrophy. The lesions may, after they have attained a certain size, persist for several years unchanged in size. On the base of histological examinations the authors omit the distinction of stages based mainly on growth. From a diagnostic point of view, and in order to judge the severity of cases, they suggest a division based on structure and cytology. Therefore they distinguish a type A of keratoacanthoma showing endophytic epithelial proliferation, disturbances of hornification (hyper- and parakeratosis), and a slight cellular 'restlessness'. In type B cellular restlessness and atypia are pronounced. Finally, there is a type C, regarded as a

Sugar, J. ; Maranghy, L. ; Bengli, L.

Occurrence of senile amyloid in the kidney. p. 311

A HAJNAP TUDOMÁNYOS AKADÉMIA V. ORSZÁGOS BÖLÖNYEI CSOPORTJÁNAK KÖZLEMÉNYEI.
Budapest, Hungary. Vol. 2, No. 2, 1951

Monthly List of East European Accessions (EEM). LC. Vol. 9, No. 1, Jan 1960
Unco.

BAKOS, Laszlo; SUGAR, Janos

Inflammatory cutis racemosa in the vicinity of irradiated skin cancer developed from nocardiosis. Borgyogy. vener. szemle 12 no.1-2:80-84 Feb-Apr 58.

1. Az Orszagos Onkologiai Intezet Borgyogyaszati Osztalyanak (vezeto: Dr. Venkei Tibor) es Az Onkopathologiai Kutato Intezetnek (vezeto: Dr Kellner Bela egyetemi tanar) kozlemenye.

(RADIOTHERAPY, compl.

inflammatory cutis racemosa in ther. of skin cancer complicating nocardia infect. (Hun))

(SKIN DISEASES, etiol. & pathogen.

radiother. causing inflammatory cutis racemosa in skin cancer complicating nocardia infect. (Hun))

EXCERPTA MEDICA Sec 5 Vol 12/8 General Path. Aug 59

2456. STAINABILITY WITH SUPRAVITAL DYES OF THE DAMAGED CELLS IN ALLOXAN-DIABETIC RATS - Färbbarkeit der geschädigten Zellen der Alloxandiabetes leidenden Ratten mit Vitalfarbstoffen - Sugar J. Onkopathol. Forsch. Inst., Budapest - Z. GES. EXP. MED. 1958, 130/3 (258-264) Tables 4 Illus. 7

Vital staining is a useful method for rapid demonstration of regressive alterations in the β -cells. (1, 3, 5)

EXCERPTA MEDICA Sec 13 Vol 13/8 Dermatology Aug 59

2134. CARCINOMATOUS DEGENERATION OF KERATOACANTHOMA (KERATO-
ACANTHOMA C) - Krebsartige Proliferation des Keratoakanthoms (Kerato-
akanthom C) - Venkel T. and Sugár J. Staatl. Onkol. Inst., Budapest
- DERM. WSCHR. 1958, 137/24 (620-628) Tables 1 illus. 10

Keratoacanthomas and spinocellular carcinomas are distinguishable by clinical and histological examination. In 42.3% of cases, keratoacanthoma changed into a spinocellular cancer (keratoacanthoma C); observations showed that spontaneous remission is apparently still possible in these cases. The development into cancer is described (at first, endophytic epithelial hyperplasia and disturbances of keratinization; then cellular atypia; finally, malignant changes).

Gruber - Munich (XIII, 5, 16)

VENKEI, T.; SHUGAR, Ya.[Sugar, J.]; KOVACH, Margit[Kovacs, Margit],
doktor [translator]; D'YENESH, Gea[Gyenes, Geza], doktor
[translator]; MEL'TSER, Miklosh[Melczer, Miklos], prof.,
nauchnyy red.; RAYKA, Eden[Rajka, Odon], prof., nauchnyy
red.; BERNAT, D'yerd'[Bernat, Gyorgy], otv. izdatel';
ALEKSA, M.[Aleksza, M.], red.izd-va; FARAGO, M., tekhn.
red.

[Malignant tumors of the skin; early diagnosis, patho-
histology and treatment] Zlokachestvennyye opukholi kozhi;
ranniia diagnostika, patogistologiya i lechenie. Budapest,
Izd-vo AN Vengrii, 1962. 341 p. (MIRA 16:11)
(SKIN--CANCER)

BIHARI, Odon, dr.; GULBERT, Anna, dr.; FENYES, Gyorgyne, dr.; SUGAR, Janos, dr.;
VENKEI, Tibor, dr.

Role of the P32 concentration test in early diagnosis of malignant
tumors of the skin. Magy. radiol. 14 no.4:227-228 J1 '62.

1. Orszagos Onkologia Intezet kozlemenye (Igazgato: Vikol Janos dr.).
(PHOSPHORUS radioactive) (SKIN NEOPLASMS diag)

SUGAR, J.

Pathological nomenclature of precancerous conditions of the skin.
Neoplasma 9 no.6:601-606 '62.
(DERMATOLOGY) (SKIN NEOPLASMS) (NOMENCLATURE)

Author: SUGAR, I.

New viewpoints in the use of progesterone in the treatment of cardiac oedemas associated with secondary hyperaldosteronism.
Med. Hung. 13 no.3:105-109 '64.

I. 2nd Department of Medicine (Director: Prof. P. Goroni),
University Medical School, Budapest.

GLAZ, Edit, dr.; SUGAR, Krisztina

Synthetic angiotensin. II. Effect on the synthesis of aldosterone by the adrenals. Orv. hetil. 102 no.48:2275-2276 26 N '61.

1. Budapesti Orvostudományi Egyetem, II Belklinika.

(HYPERTENSIN pharmacol) (ALDOSTERONE physiol)

HUNGARY

GLAZ, Edit, Dr. SUGAR, Krisztina, Dr; Medical University of Budapest, II. Medical Clinic (Budapesti Orvostudományi Egyetem, II. Belklinika).

"The Effect of Heparin and Heparinoids on Aldosterone Production."

Budapest, Orvosi Hetilap, Vol 104, No 29, 21 July 1963, pp 1360-1363.

Abstract: [Authors' Hungarian summary] The effect of heparin and heparinoid preparations on the production of the adrenals of rats were studied by the authors. After intravenous administration of these compounds, aldosterone production was reduced significantly, corticosterone increased slightly, with total steroid values unchanged. The selective, aldosterone-decreasing effect of heparin is stressed, which is unique among compounds used for the decrease of aldosterone production. This opens a wide perspective for its use experimentally and clinically. 3 Hungarian, 39 Western references.

1/1

SUGAR, L

112

CA

Stomatologic and nutritional hygienic relations of caries investigations on school children of Tata. László Fekete and László Sugár. *Nitrogén* 29, 832-4(1948).— Caries were observed in 83 out of 117 school children aged 8-14. Detailed investigations showed that the children with healthy teeth consumed a diet contg. 63 g. protein, 20 g. fat, 40 g. Ca, 4232 international units vitamin A, 0.82 mg. vitamin B₁, and 15 mg. vitamin C, with a total of 1002 kcal. daily. The diet of children suffering from caries contained 88 g. protein, 20 g. fat, 0.3 g. Ca, 2212 international units vitamin A, 0.67 mg. vitamin B₁, and 7 mg. vitamin C, with a daily total of 1581 kcal. 7 references. I. F.

ASB 31A METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SUGAR, Laszlo, dots. (Budapest)

Standards of the treatment of periodontal diseases in Hungary.
Stomatologia, Sofia No.6:333-339 1954.

(PERIODONTIUM, diseases,
ther., standard. technics)

BALOGH, Karoly, dr.; SUGAR, László, dr.

Reorganization of the dental training. *Hépegeszsegügy* 35 no.11:
287-288 Nov 54.

1. Közlemény a budapesti Orvostudományi Egyetem Fogászati Klinikájáról (igazgató: Balogh Karoly az orvostudományi doktora)
(EDUCATION, DENTAL
in Hungary, reorganiz.)

SUGAR, Laszlo, dr.

Incidence of dental caries and of diseases of dental alveolus in workers in candy industry. Nepegeszsegugy 35 no.11:303-307 Nov.54.

1. Kozlemeny a Budapesti Orvostudomanyi Egyetem Fogaszati Klinikajarol (igazgato: Balogh, Karoly az orvostudomanyok doktora)

(DENTAL CARIES, statist.

in workers in candy indust.)

(PERIODONTIUM, dis.

in workers in candy industry)

(GINGIVITIS, statist.

in workers in candy indust.)

(OCCUPATIONAL DISEASES

dent. caries & dent. alveolus dis. in candy indust.)

SUGAR, László, dr.

Stomatological aspects of lupus erythematosus. Fogrov. szemle
47 no.5:165-170 May 54.

(LUPUS ERYTHEMATOSUS, manifestations
oral)
(MOUTH, in various dis.
lupus erythematosus)

Dermatology

HUNGARY

NEKAM, Lajos, Dr, NEUBAUER, Gyorgy, Dr, SUGAR, Laszlo, Dr, TOTH, Ferenc, Dr; Medical University of Budapest, Dermatological and Venereological Clinic (director: FOLDVARI, Ferenc, Dr) I. Gynecological Clinic (director: HORN, Ferenc, Dr), and Oral Surgical Clinic (director: BALOGH, Karoly, Dr) (Budapesti Orvostudományi Egyetem, Bor- és Nemikortani Klinika, I. Noi Klinika és Szajsebészeti Klinika).

"A Combination of Hyalinosis of the Skin and Mucous Membranes and Dysgerminoma."

Budapest, Orvosi Hetilap, Vol 107, No 52, 25 Dec 66, pages 2475-2478.

Abstract: [Authors' Hungarian summary] The case of a 15 year old girl is described who suffered from hyalinosis of the skin and mucous membranes, and also had a dysgerminoma. No data were found which would have indicated a hereditary factor and an examination of the chromosomes also failed to reveal any changes in the leukocyte cultures. The material deposited in the connective tissue of the skin and mucous membranes, and especially in the wall of the small vessels, was judged to be a glycoprotein after extensive histological examinations and in agreement with literature data. The simultaneous presence of the two extremely rare diseases, hyalinosis and dysgerminoma, is attributed to chance and no relationship was found between them with respect to either course or clinical and histological appearance. 6 Hungarian, 21 Western references.

KORNYEI, Kalman (Budapest XX., Soroksar, Batthany u.38); VADOBA,
Jozsef, technologus; SUGAR, Tibor

Motorists' letters. Auto motor 15 no.8:5 Ap '62.

1. Bikali Allami Gazdasag (for Vadoba). 2. Nivodijas kirakatrendezo,
Ruhazati Bolt Vallalet (for Sugar).

SUGARENKO, V.I., inzh.

The over-all mechanization of operations on the construction sites
of the Dnepropetrovsk Economic Council. Mekh.stroi. 17 no.5:
3-6 My '60. (MIRA 13:7)
(Dnepropetrovsk Province--Building machinery)

SUJAREV, D.

"Vitosha National Park", p. 1. (ARKHITEKTURA I STROITELSTVO, Vol. 3, no. 9, 1953, Sofiya, Bulgaria).

SO: Monthly List of East European Accessions, IC, Vol. 3, No. 4, April 1954.

SUGAREV, D.; RATEEV, S.; IVANOV, R.

"New V. Levski National Stadium in Sofia", p. 7. (ARKHITEKTURA I STROITELSTVO, Vol. 3, No. 9, 1953, Sofiya, Bulgaria).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954.

SUGAREV, D.

"Courtyards in Karlovo during the Bulgarian Renaissance." (p.1)

ARHITEKTURA I STRICTEISTVO

(Ministerstvo na stroezhite i ustroistva, Ministerstvo na Narodnoto stopanstvo i blagoustroistvoto, i Nauchno tekhnicheskiia suiuz) Sofiya Vol. 3, no. 10 1953

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

SHIRAZ, Deicho

204/6
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MARODEN PARK VITOSH; PUTEVODITEL' (VITOSHIA PEOPLES' PARK; A GUIDEBOOK,
BY) D. SUGAREV, M. MILKOV I K. SHOPOV. SOFIYA, DURSHTAVNO LED-VO ZA FIEKULTURNA
I FOTIYC-TEKHNIЧЕСКА ЛИТЕРАТУРА, 1956. 145 p. ILLUS., MAPS.

Wittmann, G.; *Chem. Ber.*, 1979; **112**, 1401

method for determining gluc. compounds excreted with
the urine. *Vop. med. Khim.* 7, no. 3:309-311 (1970) 163.
(EPA 1749)

1. Kafedra propovedani vnutrennikh bolezney i kafedra biokhimii
Tatarskogo gosudarstvennogo universiteta.

SUGEYKO, V., prepodavatel'; MOCHALOV, P.

Universal and demonstration stand. Prof.-tekh. obr. 22 no. 6.
21 Je '65. (MIRA 18:7)

1. Sel'skoye professional'no-tekhnicheskoye uchilishche No.3,
Berdichev (for Sugeyko).

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653730008-8

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653730008-8"

POLAND / Physical Chemistry. Surface Phenomena. Adsorp- B
tion. Chromatography. Ion Exchange.

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56904.

Author : ~~Sugier Henryk~~

Inst : Not given.

Title : Adsorption Heat of Saturated Vapor of Ethyl
Alcohol From air on Activated Carbon.

Orig Pub: Zesz. nauk. politechn. Lodzkiej, 1957, No 18,
39 -43.

Abstract: The adsorption heats of the saturated vapor of
ethyl alcohol on two types of activated carbon
were measured: $Q_1 = 1303$ kilocalories per mole
and $Q_2 = 16.45$ kilocalories per mole. The dif-
ferences between the heats and adsorption val-
ues are ascribed to the differences of the sur-

Card 1/2

SUGIER, H.; WOZNICKI, W.

The molar refraction of π -electrons of some conjugated molecules.
Bul Ac Pol mat 8 no.2:85-87 '60. (EAI 9:12)

1. Department of Physical Chemistry, Technical University, Lodz
and Department of Theoretical Physics, Nicholas Copernicus
University, Torun. Presented by A. Jablonski.
(Electrons) (Molecules) (Refraction)

S/081/62/000/023/016/120
B156/B186

AUTHOR: Sugler, Henryk

TITLE: Macrocapillary structures of porous bodies investigated using radioactive solutions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1962, 116, abstract 23B850 (Pierwsze krajowe sympoz. zastosowań izotopów techn., Rogów, 8 - 12 June, 1960; Warsaw, no. 8, 1961 [Pol.; summaries in Russ. and Eng.])

TEXT: A method is proposed for determining the distribution function of macrocapillaries in depth with relation to the rate at which radioactive solutions diffuse. The porous body investigated was carbol Z-extra (type L) burnt charcoal; the diffusing solution was an aqueous solution of

NaCl, labeled with Cl^{36} . The charcoal selected for the research did not sorb Cl^- . The depth found was the same for all the macropores, and was almost equal to the thickness of the charcoal sheets investigated. [Abstracter's note: Complete translation.]

Card 1/1

SUGIER, HENRYK, Dr.

POLAND

KROH, Jerzy, Prof. dr., Ph.D.; SUGIER, Henryk, Dr.

Dept. of Radiation Chemistry, Lodz Polytechnic (Katedra Chemii Radiacyjnej
Politechniki Lodzkiej) (for both; Kroh - Director, Sugier - Adiunkt)

Wroclaw, Wiadomosci chemiczne, No 2, February 1966, pp 85-97

"Achievements of Polish radiation chemistry and prospects for development."

L 3539-66 EWT(1)/EPF(c)/EWA(h) LJP(c) WW/GG
ACCESSION NR: AP5015747 UR/0023/65/000/001/0129/0132

AUTHORS: Lippmaa, E.; Sugis, A. (Syugis, A.) 44/85 44
41
B

TITLE: Investigation of the sideband spin generator with phase synchronized modulation frequency

SOURCE: AN EstSSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 1, 1965, 129-132

TOPIC TAGS: stabilizer, spin resonance, nuclear resonance, epr spectrometry, signal generator 15

ABSTRACT: The authors describe a spin generator operating at 40 Mc, with a modulation frequency of 5 or 10 kcs, in which the modulation frequency is phase-synchronized with an external stable frequency to make it possible to use the generator for experiments with double resonance. The generator is used as a stabilizer in a nuclear double resonance spectrometer. A block diagram of the spin generator is shown in Fig. 1 of the Enclosure. The audio-frequency signal (5 or 10 kcs) from the high-frequency phase detector is clipped in a

Card 1/3

L 3539-66

ACCESSION NR: AP5015747

diode limiter, filtered, and applied to the modulation coils through a power amplifier. To hold the modulation frequency constant, the filtered audio signal is fed to a phase detector where it is compared with a very stable audio signal from a quartz oscillator. The output voltage is applied to a parametric diode of the high-frequency oscillator, whose frequency was made to follow exactly the variations of the magnetic field. The stabilization coefficient at 10 kcs is 1250 and increases with decreasing operating frequency; it falls to 70 per cent of its initial value at 250 cps. Orig. art. has: 1 figure and 4 formulas

ASSOCIATION: Institute kibernetiki AN ESSR (Institute of Cybernetics, AN ESSR)

SUBMITTED: 06Jan65

ENCL: 01

SUB CODE: NF

NR REF SOV: 004

OTHER: 011

Card 2/3

L 3539-66

ACCESSION NR: AP5015747

ENCLOSURE: 01

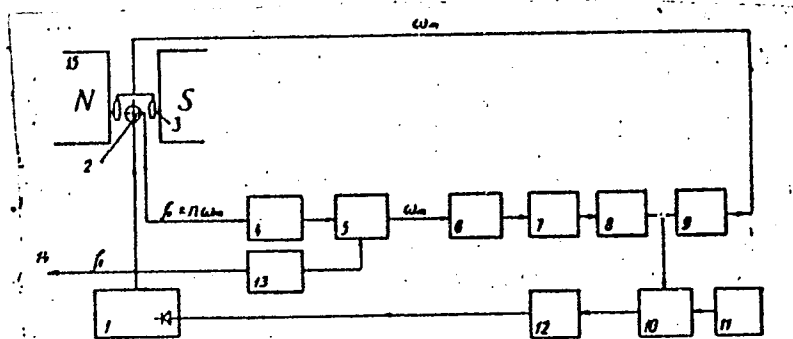


Fig. 1. Block diagram of spin generator. 1 - High-frequency generator, 2 - crossed coils, 3 - modulation coils, 4 - hf amplifier, 5 - phase detector, 6 - lf amplifier, 7 - diode limiter, 8 - filter, 9 - input stage of lf amplifier, 10 - phase detector, 11 - lf quartz generator, 12 - filter, 13 - phase shifter, 14 - hf output, 15 - electromagnet.

Card 3/3

SUGIT, B.

Indemnification for private agricultural real estate acquired for the realization of national economic plans. p. 375.
PRZEGLAD GEODEZYJNY. (Zwiadk Niernicznych Rzeczypospolitej Polskiej)
Warszawa. Vol. 11, no. 11, Nov. 1955.

So. East European Accessions List. Vol. 5, no. 1, Jan. 1956

ALESHIN, B.V.; KATINSKIY, A.B.; KRODIN, A.G.; KISHKOV, G.H.; STANIN,
G.S.; SUGLITSKIY, A.Ye.; ANDRIK, A.G.

"Manual on histology" by A. Zaverzin, V. Mikhalevich. Reviewed
by B.V. Aleshin and others. Arkhivnat. list. 1 ser. 34 no. 3:110-115
Ky-Je '57. (CLASS 10:10)
(HISTOLOGY) (ZAVERTIN, A.A.) (MIKHALICH, V.I.)

SHCHELKUNOV, Serafim Ivanovich; GRIGOR'YEV, Nikolay Ivanovich;
SUGLITSKIY, A.Ye., red.; RUBLEVA, M.S., tekhn.red.

[Methodological manual for practical studies on histology]
Metodicheskoe posobie k prakticheskim zaniatiyam po gistologii.
Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1961.
129 p. (MIRA 14:4)

(HISTOLOGY--LABORATORY MANUALS)

KATSNEL'SON, Zakhar Saulovich, prof.; RIKHTER, Irina Dmitriyevna,
prof.; SUGLITSKIY, A.Ye., red.; KHARASH, G.A., tekhn. red.

[Laboratory manual on histology and embryology] Praktikum po
gistologii i embriologii. Leningrad, Medgiz, 1963. 279 p.
(MIRA 16:10)

(HISTOLOGY—LABORATORY MANUALS)
(EMBRYOLOGY—LABORATORY MANUALS)