

VASHUKOV, I.A.; MAYKOV, O.A.

Strength of cerium cast iron under the effect of torsional shearing.
Lit. proizv. no.8:9-10 Ag '62. (MIRA 15:11)
(Cast iron--Testing) (Strains and stresses)

VASHUKOV, I. A.

Nonmagnetic cast iron inoculated by cerium alloys. Lit. proizv.
no.10:36-38 0 '62. (MIRA 15:10)

(Cast iron—Magnetic properties)

VASHUKOV, I.A.; PESOCHINA, L.T.; MAYKOV, O.A.; MATTIS, G.P.

Effect of antimony on the structure and properties of gray
cast iron. Lit. proizv. no.1:19-22 Ja '63. (MIRA 16:3)
(Cast iron—Metallography)
(Antimony)

VASHUKOV, I.A., inzh.; KONONENKO, S.G., inzh.; MATTIS, G.P., inzh.;
PESCHINA, L.T., inzh.; SHOL'TS, A.F., inzh.

Furnaces for the local heat treatment of weld joints. Svar.
proizv. no.7:30-31 JI '63. (MIRA 17:2)

1. Novosibirskiy zavod tyazhelykh stankov i gidravlicheskih
pressov im. A.M. Yefremova.

VASHKOV, I.A.; SOLOVNIK, I.G.; LYUBOVSKAYA, V.Ye.

Effect of the type of anticorrosive coatings of chaplets on
the quality of iron castings. Lit. proizv. no.4:5-6 Ap '64.
(MIRA 18:7)

VASHUKOV, P.

Welded sifter brush guides. Muk.-elev.prom.22 no.3:25 Mr '56.
(MLRA 9:7)

1. ~~Мельнично-ситовый комбинат имени В.И.Ленина.~~
(Flour mills--Equipment and supplies) (Sieves)

VASHUNIN, P. S.

Nurseries (Horticulture) - Equipment and Supplies

Apparatus for weaving straw mats. Les. khoz. 5, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August ¹⁹⁵²~~1953~~ Unclassified.

L 7709-66 EWT(m)/EPF(c)/EWP(j)/T WW/RM
 ACC NR: AP5028897 SOURCE CODE: UR/0138/65/0007/011/0002/0003

AUTHOR: Nagibina, T. D.; Yasenkova, L. S.; Alikberova, G. I.; Korablev, Yu. G. 49
 Kuzin, V. S.; Kuznetsova, A. I.; Zharova, A. S.; Vashumina, N. D.

ORG: Institute of Organic Chemistry im. Zelinskiy, AN SSSR (Institut organicheskoy khimii AN SSSR); Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii) 44

TITLE: Phenol-containing rubber SKDF-10 6

SOURCE: Kauchuk i rezina, no. 11, 1965, 2-3

TOPIC TAGS: synthetic rubber, phenol containing rubber, copolymer 15

ABSTRACT: Phenol-containing rubbers have been prepared by emulsion copolymerization at 60C of butadiene and dimethyl(vinylethynyl)(4-hydroxyphenyl)methane(I) in the presence of diazoaminobenzene and hydroquinone. The best chemical, physical and mechanical properties were exhibited by copolymers containing 10% of I (SKDF-10 rubber). IR absorption spectra indicated that copolymerisation occurs via the double bond of I. SKDF-10 rubbers can be vulcanized by such agents as sulfur, phenol-formaldehyde resins, or hexamethylene tetramine. The formulation of the mixtures, the properties of the rubbers, vulcanization methods, and the vulcanizate properties are described in the source. The properties of SKDF-10 vulcanizates are similar to those of butadiene-styrene SKS-30 vulcanizates, but their fatigue strength in compression is 15

Card 1/2 UDC: 678.762.2-134.647:546/547.07.00

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twice as high as that of SKS-30 vulcanizates. SKDY-10 latex impregnation composi-
tions exhibit enhanced adhesion. [80]

SUB CODE: MI/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4142

Card 2/2

VASHUNSKIY, V. G.

Syntheses with acrylonitrile. XXIII. Preparation of ~~N-(γ-alkoxypropyl)pyrrolidines and piperidines~~. V. G. Vashunskiy and A. P. Terent'ev (*Russ. Jour. Chem.*, Moscow, *Zhur. Obshch. Khim.*, 25, 2299-2303 (1953); cf. C.A. 48, 3890; 50, 7777). Addn. of 31 g. O(CH₂CH₂OH)₂ and 9.25 g. pyridine to 68.5 g. PBr₃ gave on the distn. after 24 hrs. 72.5% O(CH₂CH₂Br)₂, b₂ 111-15°. To 13.24 g. moist K₂CO₃ was added 10.56 g. (CH₂CH₂Br)₂ in 15 ml. C₆H₆, followed by slow addn. of 4.95 g. EtOCH₂CH₂CH₂NH₂ in C₆H₆ at reflux; after 16 hrs. on a steam bath there was obtained 4.4% N-(γ-ethoxypropyl)pyrrolidine, b₂ 71-5°, b₃ 61-5°, n_D²⁰ 1.4449, d₄ 0.8856. Similarly was prepd. 46.2% N-(γ-isopropoxypropyl)pyrrolidine, b₂ 79-80°, n_D²⁰ 1.4476, d₄ 0.8863, 45.5% N-(γ-isobutoxypropyl)pyrrolidine, b₂ 92.5°, n_D²⁰ 1.4445, d₄ 0.8749, and 31-6% N-(γ-butoxypropyl)pyrrolidine, b₂ 98-100°, n_D²⁰ 1.4448, d₄ 0.8729. (CH₂CH₂Br)₂ in refluxing Et₂O-dioxane was treated with iso-AmOCH₂CH₂CH₂NH₂; and after 23 hrs. of refluxing gave 28.7% N-(γ-isamyloxypropyl)pyrrolidine, b₂ 113-15°, n_D²⁰ 1.4462, d₄ 0.8709. Heating 20 hrs. 4.12 g. EtOCH₂CH₂CH₂NH₂, 10.7 g. CH₂(CH₂Br)₂; and 11 g. K₂SO₄ in C₆H₆ gave 59% N-(γ-ethoxypropyl)piperidine, b₂ 82-3°, n_D²⁰ 1.4490, d₄ 0.8884. Similarly formed was 51.4% N-(γ-butoxypropyl)piperidine, b₂ 120-1.5°, n_D²⁰ 1.4508, d₄ 0.8796. The use of O(CH₂CH₂Br)₂ similarly

2 M. A. GOUTZ
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(OVER)

SYNTHESIS OF SOME ACRYLAMONITRILE

gave 44.8% *N*-(γ -ethoxypropyl)acrylamide, *b.p.* 92-4°, *n_D²⁰* 1.4198, *d₄²⁰* 0.9531. XXIV. Comparative reactivity of acrylonitrile with other α,β -unsaturated nitriles. V. G. Yashunskii, A. P. Terent'ev, and V. L. Shvedov. *Ibid.* 2457-64. The relative rates of reaction of unsatd. nitriles with K salt of glycine in aq. soln. were found to be in the following order: $\text{CH}_2=\text{CHCN}$, 100; $\text{MeCH}=\text{CHCN}$, 14.5; $\text{CH}_2=\text{CHCH}_2\text{CN}$, 2.7; $\text{CH}_2=\text{CMeCN}$, 1.7; 1-cyclohexenonitrile, 3.5; cyclohexylideneacetonitrile, 3.7; and cinnamonitrile, 1.4, resp. To 15 g. Na dispersed in 30 ml. MePh was added over 15 min. 3.2 g. $\text{CH}_2=\text{CHCN}$ in 220 ml. dry BuOH; after decoupling with H_2O and steam distn. into dil. HCl there was obtained 11% $\text{PrNH}_2\cdot\text{HCl}$ and 59.6% $\text{BuOCH}_2\text{CHMeNH}_2$, *b.p.* 71.5-2.5°. Similarly, 8 g. $\text{CH}_2=\text{CMeCN}$ and 26.5 g. Na with 420 ml. BuOH gave 34.6% $\text{BuOCH}_2\text{CHMeCH}_2\text{NH}_2$, *b.p.* 83-5°, *n_D²⁰* 1.4270, *d₄²⁰* 0.8412; (*picrate*, *m.* 63°), as well as 46.2% *iso*- $\text{BuNH}_2\cdot\text{HCl}$ salt, *m.* 178-9°. Similar reduction of $\text{MeCH}=\text{CHCN}$ gave 39.6% $\text{BuO}(\text{CH}_2)_2\text{NH}_2$, *b.p.* 78-9°, *n_D²⁰* 1.4303, *d₄²⁰* 0.8442 (*picrate*, *m.* 112°). Reduction of 1-cyclohexenonitrile thus gave 50.3% *aminomethylcyclohexane*, *b.p.* 79-80° (*picrate*, *m.* 180-7°). Reduction of $\text{Me}_2\text{C}=\text{CHCN}$ gave 80.5% *iso*- AmNH_2 . Cinnamonitrile similarly gave 56.4% $\text{Ph}(\text{CH}_2)_2\text{NH}_2$, *b.p.* 116-18°; (*picrate*, *m.* 153.5-4°).

G. M. Kosolapoff

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VASHURA, B.F.

25703

Ob opredelenii peregreva obmotok Po deystvuyushchemu standartu. (S Prinech. L. M. Shnitsera "Po Povodu Zamechaniy B. F. Vashury"). Elektricheskovo, 1949, No. 8, s. 85-86

SO: LETOPIS' No. 34

LYUBCHIK, M.A.; VASHURA, B.F., professor, redaktor.

[Low voltage electric switchgear] Kommutatsionnye apparaty nizkogo
napriazhenia; uchebnye tablitsy. Moskva, Gos. energ. izd-vo, 1954.
8 diagrams (in portfolio). [Microfilm]. (MIRA 9:9)
(Electric switchgear)

STUPEL', Fayvel' Aronovich; VASHURA, B.F., prof., retsenzent; SUKACHEV, A.P., dots., retsenzent; KALUZHNIKOV, N.A., retsenzent; BARU, I.L., prof., otv.red.; VAYNBERG, D.A., red.; CHERNYSHEVSKO, Ya.T., tekhn.red.

[Electromechanical relays; principles of the theory, analysis, and design] Elektromekhanicheskie rele; osnovy teorii, proektirovaniia i rashcheta. [A textbook] Uchebnoe posobie. Izd.2. Khar'kov, Izd-vo Khar'kovskogo univ., 1956. 354 p. (MIRA 12:5)
(Electric relays)

YASHURA, B.P.; STUPEL', F.A.; SHTURMAN, G.I.; BERGER, A.Ya.; LYUTER,
R.A.; YEREMEYEV, A.S.

Professor O.B. Bron. Elektrichestvo no.5:94 My '56. (MLRA 9:8)
(Bron, Osip Borisovich, 1896-)

SOV/112-59-4-6991

8(0)

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 80 (USSR)

AUTHOR: Vashura, V. F., and Baru, I. I.

TITLE: Approximate Relations That Determine the Operation of an Induction Motor With Different Rotor Resistances

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Nr 12, pp 3-11

ABSTRACT: Operation of a slip-ring induction motor with 3 different resistors connected in the rotor phases is considered. The asymmetrical EMFs set up in the rotor by the elliptical rotating field is resolved into symmetrical components; only positive-phase-sequence EMFs are taken into account. The equations for rotor-phase currents are developed with a consideration of phase resistances only. The instantaneous value of the torque is

$$d = \frac{3E^2}{\omega_0 R_{equiv}} s,$$

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SOV/112-59-4-6991

Approximate Relations That Determine the Operation of an Induction Motor

where E is the rotor-phase EMF at the slip $s = 1$; ω_0 is the synchronous angular velocity of the rotor;

$$R_{\text{equiv}} = \frac{R_a R_b + R_a R_c + R_b R_c}{R_a + R_b + R_c}$$

here R_a , R_b , and R_c are rotor-phase active resistances. It is pointed out that the electric losses in a rotor with different active resistances of its phases are equal to the losses when each resistance is equal to R_{equiv} . The asymmetry factor γ , which characterizes the ratio of the negative-phase-sequence to the positive-phase-sequence currents, is equal

$$\gamma = \frac{I_2}{I_1} = \sqrt{1 - \frac{R_{\text{equiv}}}{R_{\text{av}}}}, \text{ where } R_{\text{av}} = \frac{R_a + R_b + R_c}{3} .$$

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Approximate Relations That Determine the Operation of an Induction Motor

It is pointed out that the above relations permit calculating asymmetrical resistance steps in a rheostat and permit constructing motor-starting diagrams that would show phase currents during starting.

A.N.B.

Card 3/3

LYUBCHIK, Mikhail Abramovich; VASHURA, B.F., prof., obshchiy red.;
USTINOVA, Yu.P., red.; LARIONOV, G.Ye., tekhn.red.

[Calculation and design of d.c. and a.c. electromagnets]
Raschet i proektirovanie elektromagnitov postoiannogo i pere-
mennogo toka. Pod obshchei red. B.F.Bashury. Moskva, Gos.
energ.izd-vo, 1959. 221 p. (MIRA 12:10)
(Electromagnets)

SOV/144-59-12-14/21

AUTHORS: Baru, I.I., Candidate of Technical Sciences, Dotsent.
Vashura, B.F., Doctor of Technical Sciences, Professor,
Lyubchik, M.A.

TITLE: Motion of the Armature of an Alternating Current
Electro-Magnet

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,
1959, Nr 12, pp 127-134 (USSR)

ABSTRACT: Experimental observations of the forces exerted by
a.c. electro-magnets depend very much on the test
procedure. For a given air-gap, "pull-in" and "pull-out"
tests give different results, mainly as a result of
armature vibration. The motion of the armature depends
on the force developed by the electro-magnet and the
counter-acting force. A certain voltage is required to
ensure that the armature pulls in smoothly without
vibrating on the stop. The present article derives
approximate relationships for the motion of the armature
near the stop, it relates to an E-shaped system with one
voltage coil. The assumptions made are stated. The
equations for the electro-magnetic forces are given by
Eq (1). Introducing the torque applied to the centre pole

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Motion of the Armature of an Alternating Current Electro-Magnet

and equating it to the resultant torque of all poles. Eq (2) is obtained; this is equated to the counter-torque produced by the load. Motion of the armature near the stop is examined during smooth change of the voltage applied to the coil. Graphs of the changes in the referred force as a function of time for various values of voltage are plotted in Fig 2. Motion of the armature is then considered for different values of voltage. The first is so low that the armature does not move and the second is the limiting case where the force and counter-force are equal and the armature still does not move; Fig 4 relates to these two cases. Finally there is the circumstance of a further slight increase of voltage that permits vibration, indicated in Fig 5. This case is considered in somewhat more detail, noting the various kinds of vibration that may occur. Attention is then given to the lowest voltage at which the armature pulls in smoothly without vibration and to the still higher voltage at which the armature still pulls in without bouncing but more rapidly. After thus studying the physics of the process of armature motion, the equations of motion are derived.

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Motion of the Armature of an Alternating Current Electro-Magnet

The instantaneous value of the resultant force is given by Eq (3) and the constants of integration are derived from the initial conditions. Eq (7) and (10) give the speed and position of the armature as functions of time. By substitution of the appropriate conditions into Eq (10), expressions can be derived for vibration of the armature on the stop. It is shown that vibration occurs on pull-in when the force applied to the centre pole is 65% of the amplitude of the electro-magnetic force; on pulling-out this ratio would be 0.35. The formulae derived are based on referred forces and so can be applied to any configuration of a.c. magnet system. They may also be used to determine the changes in armature position and speed as function of time. There are 12 figures.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute)

SUBMITTED: September 13, 1959

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VASHURA, B.F.; BARU, I.I.

Choice of resistance elements for air-cooled d.c. and a.c. starting
rheostats. Trudy KhPI 30 no.1:3-24 '60. (MIRA 14:9)
(Electric resistors) (Electric motors--Starting devices)

VASHURA, B.F.; BARU, I.I.

Analytic calculation of the resistances of excitation rheostats.
Trudy khPI 30 no.1:25-40 '60. (MIRA 14:9)
(Electric generators) (Voltage regulators)

VASHURA, P., general-leutenant

In the fight for paces and quality of building. Komm. Voozruzh.
Sil 46 no.22:25-31 N '65. (MIRA 19:1)

1. Chlan Voyennogo soveta, nachal'nik politicheskogo upravleniya
Ural'skogo voyennogo okruga.

VASHURIN, Aleksandr Aleksandrovich, inzhener; LAPIN, Vladimir Borisovich,
inzhener; PRUSAKOV, Mendel' Borisovich, inzhener; BELYAYEV, I.A.,
inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Manual for foremen of traction substations of direct-current
electric railroads] Spravochnik mastera tiagovoi podstantsii
elektrifitsirovannykh zheleznykh dorog postoiannogo toka. Moskva,
Gos. transp.zhel-dor.isd-vo, 1957. 334 p. (MIRA 10:11)
(Electric railroads--Substations)

VASHURIN, A.A.

Lessons gained from a power failure. Elek. i tepl. tiaga 2 no.8:17-19
Ag '58. (MIRA 11:9)

(Electric railroads--Substations)

IVASHNEV, Lev Ivanovich; SIDORKIN, Vladimir Ivanovich; VASHURIN, A.A.,
red.; ENTIN, Yu.S., red.; PEREDERIY, S.P., tekhn.red.

[Manual on equipping sites for training contact-network
electricians in railroad and technical schools] Rukovodstvo
po oborudovaniu uchebnykh poligonov dlia obucheniia elektro-
monterov kontaktnoi seti v zheleznodorozhnykh i tekhnicheskikh
uchilishchakh. Moskva, Proftekhizdat, 1961. 57 p.

(MIRA 15:5)

(Electric railroads--Wires and wiring)
(Railroads--Employees--Education and training)

VARSIURIN, A.A., inzh.; KHLBNIKA, N.I., inzh.; SIBAROV, Yu.G.,
inzh.; FOMICHEV, V.A., inzh.; MELAMED, M.F., inzh.;
POTAPOVA, T.I., inzh.; KOLYUZHENYY, G.G., inzh.; TAGIROVA,
M.I., inzh.; SHIFMAN, O.I., inzh.; STORTS, A.A., inzh.;
VASIURIN, A.A., inzh., otv. za vypusk; KHITROV, P.A., tekhn.
red.

[Safety engineering regulations for operating traction substations and sectionalization posts of electrified railroads]Pravila tekhniki bezopasnosti pri ekspluatatsii tiagovykh podstantsii i postov sektionirovaniia elektrifitsirovannykh zheleznnykh dorog. Moskva, Transzheldorizdat, 1962. 202 p.

(MIRA 15:8)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye elektrifikatsii i energeticheskogo khozyaystva. 2. TsE Ministerstva putey soobshcheniya (for Khlebnikov). 3. Tsentral'nyy komitet profsoyuza (for Fomichev). 4. Moskovskaya zheleznaya doroga (for Kolyuzhnyy). 5. Sverdlovskaya zheleznaya doroga (for Tagirova). 6. Yuzhno-Ural'skaya zheleznaya doroga (for Shifman). 7. Zapadno-Sibirskaya zheleznaya doroga (for Storts).

(Electric railroads--Safety regulations)

VASHURIN, A.A.; SHILKIN, P.M.; ZEL'VYANSKIY, Ya.A., starshiy inzh.

New safety engineering regulations for operating electric power supply systems. Elek. i tepl. tiaga no.6:30-32 Je '62.

(MIRA 15:7)

1. Zamestitel' nachal'nika otdela tyagovykh podstantsiy i kontaktnoy seti TsE Ministerstva putey soobshcheniya (for Vashurin).
 2. Zamestitel' nachal'nika tekhnicheskogo otdela TsE Ministerstva putey soobshcheniya (for Shilkin). 3. Tekhnicheskii otdel TsE Ministerstva putey soobshcheniya (for Zel'vyanskiy).
- (Electric railroads—Safety regulations)
(Electric railroads—Current supply)

REBRIK, B.N., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; ZAV'YALOV, G.N.;
VASHURIN, A.A., inzh.; KHATSKELEVICH, M.N., inzh.

Answering readers queries. Elek. i tepl.tiaga 6 no.8:42-44
Ag '62. (MIRA 17:3)

1. Otdeleniye elektrifikatsii Vsesoyuznogo nauchno-issledovatel'skogo
instituta zheleznodorozhnogo transporta Ministerstva putey
soobshcheniya (for Rebrik). 2. Glavnyy tekhnolog po avtotormozam
Glavnogo upravleniya lokomotivnogo khozyaystva Ministerstva putey
soobshcheniya (for Zav'yalov).

VASHURIN, Aleksandr Aleksandrovich, inzh.; LAPIN, Vladimir
Borisovich, inzh.; PRUSAKOV, Mendel' Borisovich,
inzh.; Prinsipial'nye uchastnye: PRONIN, L.P., inzh.;
SHUKHATOVICH, L.I., inzh.; KALININ, V.K., kand. tekhn
nauk, red.

[Manual for traction substation electricians] Spravochnik
elektromekhanika tiagovoi podstantsii. Izd.2., perer. i
dop. Moskva, Izd-vo "Transport," 1964. 423 p.
(MIRA 17:5)

VASHURIN, P., gvardii general-leytenant.

Organization in the work of a commander. Voen.vest.36 no.12:15-20
D '56. (MLRA 10:2)

(Russia--Army--Organization)

VASHURIN, P., gvardii general-leytenant.

The commanding officer plans his own work. Yoen.vest. 36 no.7:
14-18 Jl '56. (MLRA 9:8)

(Russia--Army--Officers)

VASHURIN, P., general-leytenant

Personal plan of the commander. Veon. vest. 40 no.11:34-37 N
'60. (MIRA 14:11)

(Russia--Army--Officers)
(Military education)

VASHURIN, P.S.

"Training of units for assault from the march" by P.S.Vashurin.
Voen.vest. 41 no.10:126 0 '61. (MIRA 15:2)
(Marching) (Vashurin, P.S.)

VASHURIN, Petr Semenovich, general-leytenant; DUKACHEV, M.P.: podkolovnik,
red.; BUKOVSKAYA, N.A., tekhn. red.

[Training of units for assault from the march] Podgotovka podrazde-
lenii k marshbroskam. Moskva, Voen.izd-vo M-va obor.SSSR, 1961. 34 p.
(MIRA 14:11)

(Infantry drill and tactics) (Marching)

VASHUROVA, T. A., Eng.

USSR/Electricity - Induction Heating
Heat Treatment

Aug 50

"Induction Heat Treatment of Welded Seams," V. V. Aleksandrov, T. A. Vashurova,
Engineers, Gen Sci Res Inst of Heavy Mach Bldg (TsNIITMASH)

"Prom Energet" No 8, pp 13-15

Describes experiments conducted by Cen Bu of Elec Case Hardening, TsNIITMASH, which
show induction heat treatment takes less time than furnace heating and is more efficient.
Recommends wide use of induction heating. Includes photograph of inductor used
for welding plates of thicknesses up to 50 mm.

PK 164T26

VASHUROVA, T.A., inzh.; PLESHACHKOVA, V.P., inzh.

Induction heat treatment of overhead crane parts. [Trudy] TSNIITMASH
89:30-41 '59. (MIRA 12:4)
(Case hardening) (Induction heating)

BOGATYREV, Yuriy Mikhaylovich; VASHUROVA, Tamara Alekseyevna; MARTYNOV, Vitaliy Petrovich; GL'SHANSKAYA, I.V., inzh., red.; L'VOV, D.S., kand.tekhn. nauk, red.; SHVETSOV, G.V., tekhn. red.

[Rapid induction heating of heat-resistant alloy ingots]Skoro-
stnoi induktsionnyi nagrev zagotovok iz zharoprochnykh splavov.
Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958.
21 p. (Peredovoi nauchno-tehnicheskii i proizvodstvennyi opyt.
Tema 5. No.M-58-330/17) (MIRA 16:2)
(Heat-resistant alloys) (Induction heating)

1. VASHUTO, M.
2. USSR (600)
4. Moving-Picture Projectors
7. Basic principles in planning the work repair shops for motion picture projection equipment, Kinomekhanik, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

VASH-VITTEG, Miklosh [Vas-Witteg, Miklos]

The democratic path of the Hungarian Trade Unions. Veem. prof.
dvizh. no.12:27-29 D '59. (MIRA 13:1)

1. Zamestitel' predsedatelya Tsentral'nogo soveta profsoyuzov Vengrii.
(Hungary--Trade unions)

MILOSEVIC, M.; VASIC, B.

Pharmacological effects of polyphosphates on the intestine. Higijena,
Beogr. 12 no.4:351-354 '60.
(PHOSPHATES pharmacol)
(INTESTINES pharmacol)

MILOSEVIC, M.; TERZIC, M.; VASIC, B.

Effect of 1,1'-trimethylene-4,4'-bis(hydroxykinomethyl)-bis[pyridinium bromide] on the striated muscle. Voj.san.pregl., Beogr. 17 no.11: 1143-1146 N '60.

1. Medicinski fakultet u Beogradu, Farmakoloski institut
(MUSCLES pharmacol)
(PYRIDINES pharmacol)

MILOSEVIC, M.; TERZIC, M.; VASIC, B.

Contribution to experimental studies on the cardiovascular effect of N,N'-trimethylenebis-(4-formylpyridinium bromide) dioxime (TMB-4). Vojnosanit. pregl. 19 no.1:21-24 Ja '62.

1. Medicinski fakultet u Beogradu, Farmakoloski institut.
(PYRIDINES pharmacol) (HYDROXYLAMINES pharmacol)
(VASOMOTOR SYSTEM pharmacol)

S

HUNGARIAN

VASIO, B., et al., of the Institute of Preventive Veterinary Medicine (Institut za Preventivnu Veterinarsku Medicinu).

"The M. Augaszy Vaccine Obtained Through Attenuation of the Virus on a Tissue Culture."

Bolgrad, Acta Veterinaria, Vol 12, No 3-4, 1962, pp 21-26.

Abstract: Author's English summary modified. The M. Augaszy vaccine obtained through attenuation of the virus on a tissue culture has a considerably reduced virulence effect on hogs while retaining its immunogenetic characteristics and is therefore suitable for vaccinating hogs against the M. Augaszy disease. The vaccination does not cause FOD. There were no clinical reactions in the hogs vaccinated, although the virus in a concentration 100 times stronger caused rising temperatures and no other noticeable consequences. The title, 27 references to Hungarian, American, and Yugoslav works of recent date.

2/1

YUGOSLAVIA

VASIC, B. and VASIC, N.; Veterinary Institute (Veterinarski Institut),
Zemun.

"Multiplication of the Viruses of Fowl Diphtheria and Fowl Pox in Tissue
Culture of Hen Embryo Fibroblasts."

Belgrade, Veterinarski Glasnik, Vol 20, No 7, 1966; pp 549-553.

Abstract [English summary modified]: Use of 2 lyophilized vaccines of
fowl pox, one of pigeon and one of chicken origin. The cytopathogenic
effects seen in vitro would seem to militate against the possibility of
their effective use in the field for vaccination. Seven photomicrographs,
9 Western references; ms received 23 May 66.

VASIC, D.

Decontamination of radio stations, teleprinters, and high-frequency
equipment. p. 445
VOJNO-TEHNICKI GLASNIK. Beograd. Vol. 4, no. 6, June 1956

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, no. 12, December 1956

YUGOSLAVIA

D. ERCEGOVAC, M. SLAVICA, B. VASIC, D. ANDELKOVIC, B. PENEZIC and S. BUNCIC; Veterinary Institute (Veterinarski Zavod) Zemun; Department and Clinic for Infectious Diseases of the Veterinary Faculty (Institut i klinika za zaraze Veterinarskog fakulteta) Belgrade, and Veterinary Station (Veterinarska stanica), Vrsac.

"Preliminary Laboratory and Field Results with the High-Passage, Lapinized Virus Strain (N-Lavir) of Hog Cholera."

Belgrade, Veterinarski Glasnik, Vol 17, No 2, 1963; pp 173-179.

Abstract: Mass vaccinations and hygienic measures decreases incidence of hog cholera to 569 premises in 1957 but subsequent complacency and neglect brought it up to 3,497 in 1960 again. Poor control of traffic in live animals, neglect of vaccination altogether and even more frequently vaccinations of pigs during times when the animals are notoriously immunologically poorly responsive are main errors committed. Hudson N-Lavir vaccine strain (Veterinarski Zaovd, Zemun) was found both safer and more effective than a previous strain. Comprehensive results. Table; 7 Western, 1 Hungarian and 8 Yugoslav references.

1/1

SARVAN, M.; ZEC, N.; VASIC, D.; MAJSTOROVIC, M.; BOGDANOV, B.; HAKSTOK, V.

Medicine. Bul sc Youg 7 no.3:67-68 Je '62.

1. Medicinski fakultet, Sarajevo.



VASIC, Dragos

Analysis of the hospital material and immediate results of the treatment of 131 patients. Tuberkuloza 15 no.2:217-224 Ap-Je '63.

1. Opsta bolnica, grudno odelenje, Paracin - V. d. sefa: dr Dragos Vasic.

(TUBERCULOSIS, PULMONARY) (THERAPEUTICS)
(STATISTICS)

VASIC, Dragos

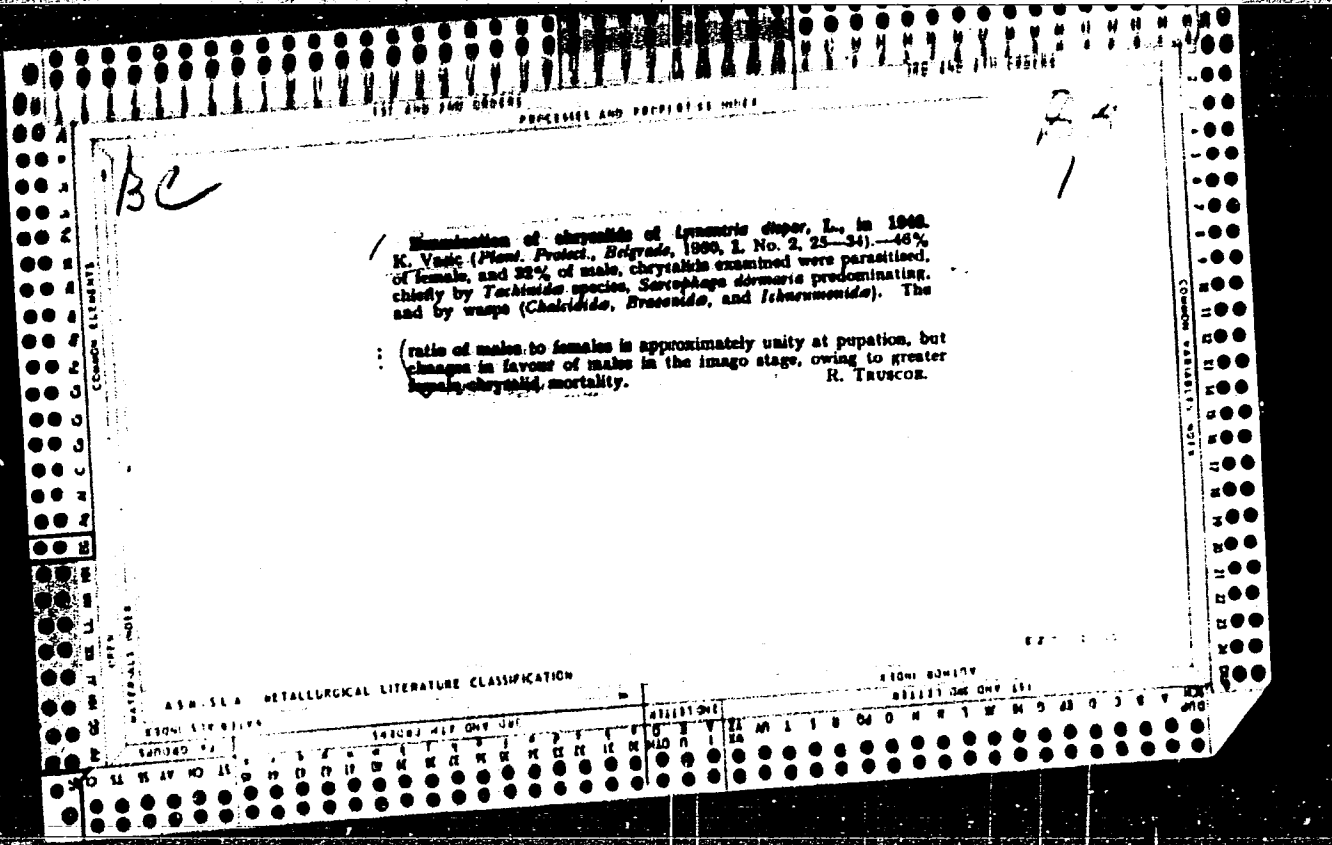
Analytical study and immediate results of the treatment of 103 patients in the thoracic department of the Paracin General Hospital observed in 1961 and 1962. Tuberkuloza 16 no.1:9-37 Ja-^o 164.

1. Medicinski centar, Paracin (Upravnik: dr. Milisav Bordanovic);
Gradno odeljenje opste bolnice (Suf: dr. Dragos Vasic).

VASIC, Dragos

On some causes of failure in the treatment of pulmonary tuberculosis. Tuberkuloza 17 no.3:221-232 My-Je '65.

1. Medicinski centar, Paracin (Upravnik: dr. Milisav Bogdanovic)
i Antituberkulozni dispanzer (Sef: dr. Dragos Vasic).



YUGOSLAVIA/General and Special Ecology. Insects

P-2

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 68900

Author : Vasic A.
Inst : Serbian Acad Sci
Title : Supplementary Data on the Biology, Ecology, and Morphology of the genus *aquilina* Noctuid

Orig Pub : Zb. radova. Brpska AN, 1953, 31, 185-203

Abstract : During the extended drought period, 1946-1950, it was noted that noctuids were spreading intensively in Serbia and Vojvodina, the most common of them being *A. aquilina*. Since such as this noctuid is encountered not only on wild plants but also on vegetable and fodder crops (lucerne), observations were made on the development of the pest under field and laboratory conditions, and a study was made of its morphology. The following parasites of *A. aquilina* caterpillars were discovered:

Card : 1/2

VASIC, K.

Contribution to the knowledge of the evolutionary cycle of some species of Triphaena O. and Spaelotis Bsd. p.31. Belgrade. Univerzitet. Sumarski fakultet. GLASNIK. BULLETIN. Beograd. No. 8, 1954

SOURCE: East European Accessions List (EEAL), Library of Congress Vol. 5, No. 6, June 1956

VASIC, K.; IVANOVIC, Jelisaveta; MAKSIMOVIC, M.; STANIC, Vlasta; DORDEVIC, M.

Morphogenetic differentiations, and oxygen consumption during the embryonal development of *Lymantria dispar* L. Arh biol nauka 13 no.3/4: 181-197 '61.

1. Bioloski institut, Beograd.

*

VASIC, F.

First results from the experimental railroad track in Savoy. p. 340. (BEOGRAD, Vol. 10, No. 9, Sept. 1954.)

SC: Monthly Lists of East European Accessions. (EEAL, 10, Vol 4, No. 6, June 1955, Uncl.

YUGOSLAVIA

VASIC, B. and VASIC, N.; Veterinary Institute (Veterinarski Institut),
Zemun.

"Multiplication of the Viruses of Fowl Diphtheria and Fowl Pox in Tissue
Culture of Hen Embryo Fibroblasts."

Belgrade, Veterinarski Glasnik, Vol 20, No 7, 1966; pp 549-553.

Abstract [English summary modified]: Use of 2 lyophilized vaccines of
fowl pox, one of pigeon and one of chicken origin. The cytopathogenic
effects seen in vitro would seem to militate against the possibility of
their effective use in the field for vaccination. Seven photomicrographs,
9 Western references; ms received 23 May 66.

GERL, Friderik, prof., ing.; STEFANOVIĆ, Aleksandar; VASIC, Pavle

Development of food industry. Alm hem ind 125-155 '59.

S/044/63/000/002/012/050
A060/A126AUTHOR: Vasić, Petar

TITLE: On a second order differential equation

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1963, 37, abstract 2B155
(Publ. Elektrotehn. fak. Univ. Beogradu. Mat i fiz., 1962, no. 70
- 76, 9 - 11; French)

TEXT: It is demonstrated that the equation

$$x^2 (ax^n + b) y'' + x (cx^n + d) y' + (ex^n + f) y = 0$$

(where a, b, c, d, e, f are constants) has a particular solution $y(x)$, satisfying the equation

$$y^3 + pyx^{\frac{n}{3}+2k} + qx^{3k} = 0$$

(where $n \neq 0$, $p \neq 0$, k, q are constants), provided that all the coefficients satisfy certain conditions.

[Abstracter's note: Complete translation]

Card 1/1

VASIC, Petar M.

Functional equation of a certain type of determinants.
Publ Inst math SANU 2(16):65-70 '62 [publ. '63].

VASIC, Petar M.

A homogeneous functional equation of the second degree.
Publ Inst math SANU 3:35-40 1953.

MITRINOVIC, D.S.; VASIC, P.M.; PRESIC, S.B.

A functional equation of the second degree. Publ Inst
math SANU 3:57-60 '63.

MITRINOVIC, D.S.; VASIC, P.M.

Complements to the treatise of Kamke. Pt. 10. Publ Inst
math SANU 3:61-68 '63.

MITRINGVIC, Dragoslav S.; VASIC, Petar M.

Some nonlinear cyclic functional equations with curious
properties. Publ Inst math SANU 33:105-114 '63.

VASIC, Petar M. (Beograd)

A system of functional equations. Glas mat fiz Hrv 18 no.4:229-233
'63.

VASIC, R.
Yugoslavia (430)

History and Description - Serials

White slaves in satellite countries. p. 14.
REVIEW OF INTERNATIONAL AFFAIRS. (Federation
of Yugoslav Journalists) Beograd. (Fortnightly
journal on international problems. Published
also in Serbo-Croatian as Medunarodna Politika.)

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED

"Card 1 of 2"

VASIC, R.

Yugoslavia (430)

Croatian as Medunarodna Politika, and in French as Revue de la Politique Mondiale, Vol. 3, no. 13, July 1, 1952.

East European Accessions List. Library of Congress, Vol. 1, no. 13, November 1952.

UNCLASSIFIED

"Card 2 of 2"

VASIC, R.

Yugoslavia (430)

and in French as Revue de la Politique
Mondiale), Vol. 3, no. 14, July 16, 1952.

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.

UNCLASSIFIED

"Card 2 of 2"

VASIC, V.

A rare and unusual case of drowning and poisoning in so-called
"blue-water". Arh. hig. rada 15 no.3:277-282 '64.

1. Interno odeljenje Opste bolnice, Bor.

VASIC, V.

Considerable increase in the incidence of primary lung cancer
in the mining-industrial area of Bor. Arh. hig. rada 15 no.4:
413-418 '64.

1. Interno odeljenje Opste bolnice, Bor.

DAVIDOVIC, M.; POPESKOVIC, D.; VASIC, Z.; KFAJACEVIC, Ksenija

Critical temperature of the spontaneous warming up of sleeping
spermophiles. Bul sci nat SAN 25 no.7:117-118 '59. (EEAI 9:12)

1. Institut de Physiologie de la Faculte des Sciences et Instiut de
Biologie de la Faculte de Medicine de l'Universite de Beograd.
(Spermophile) (Temperature) (Heat) (Sleep)

DAVIDOVIC, M.; PCPEŠKOVIC, D.; VASIC, Z.; KRAJACEVIC, Ksenija

Critical temperature for the spontaneous warming up of hibernating
spermophiles. Glas Prir mat SANU 241 no.18:21-28 '60.

1. Fiziologki zavod Prirodno-matematickog fakulteta i Bioloski
institut Medicinskog fakulteta Univerziteta u Beogradu

SIDOVEC, Franc, sanitetski potpukovnik dr; DEBIJADI, Rudi, sanitetski major
dr; RISAVI, Antun, sanitetski potpukovnik dr.; STRMOTIC, Emilija,
prof; VASIC, Zivorad, prof.

Certain practical problems in aviation medicine. Voj.san.pregl.,
Beogr. 17 no.12:1319-1328 D '60.

1. Vozduhoplovnomedicinski institut u Zemunu:
(AVIATION MEDICINE)

VASICA, Gh.; BITA, O.; DINCA, I.

Studies on the wear and seizing resistance of hardened steel couples.
Studii cerc mec apl 17 no.6:1623-1633 '64.

1. Institute of Applied Mechanics, Rumanian Academy (for Dinca).
Submitted June 25, 1964.

"APPROVED FOR RELEASE: 08/31/2001

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858720014-5"

VASICA, J.; POKORNY, A.

"ZETAP, electronic apparatus for nondestructive material testing." p. 9.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied). Bratislava, Czechoslovakia, Vol. 7, No. 1, 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

S/194/62/000/001/038/066
D201/D305

AUTHOR: Vašica, Karel

TITLE: Some problems of ultrasonic testing

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 1, 1962, abstract 1-5-40 i (Hutník (CSR), 1961,
11, no. 3, 123-128)

TEXT: It is stated that ultrasonic testing is widely used in the metallurgical and engineering establishments of the Czechoslovak People's Republic for inspection of forgings and rollings. A short description of US inspection methods is given. The defects detectable by US methods are enumerated. The US inspection method of a bending forged roller is given together with typical reflectograms and corresponding photographs of its large sections. It is shown that a study of the internal structure of forgings and rollings using the US method should be carried out on rejects. It is pointed out that it is important to use the US inspection method in conjunction with the use of standard samples. It is suggested that

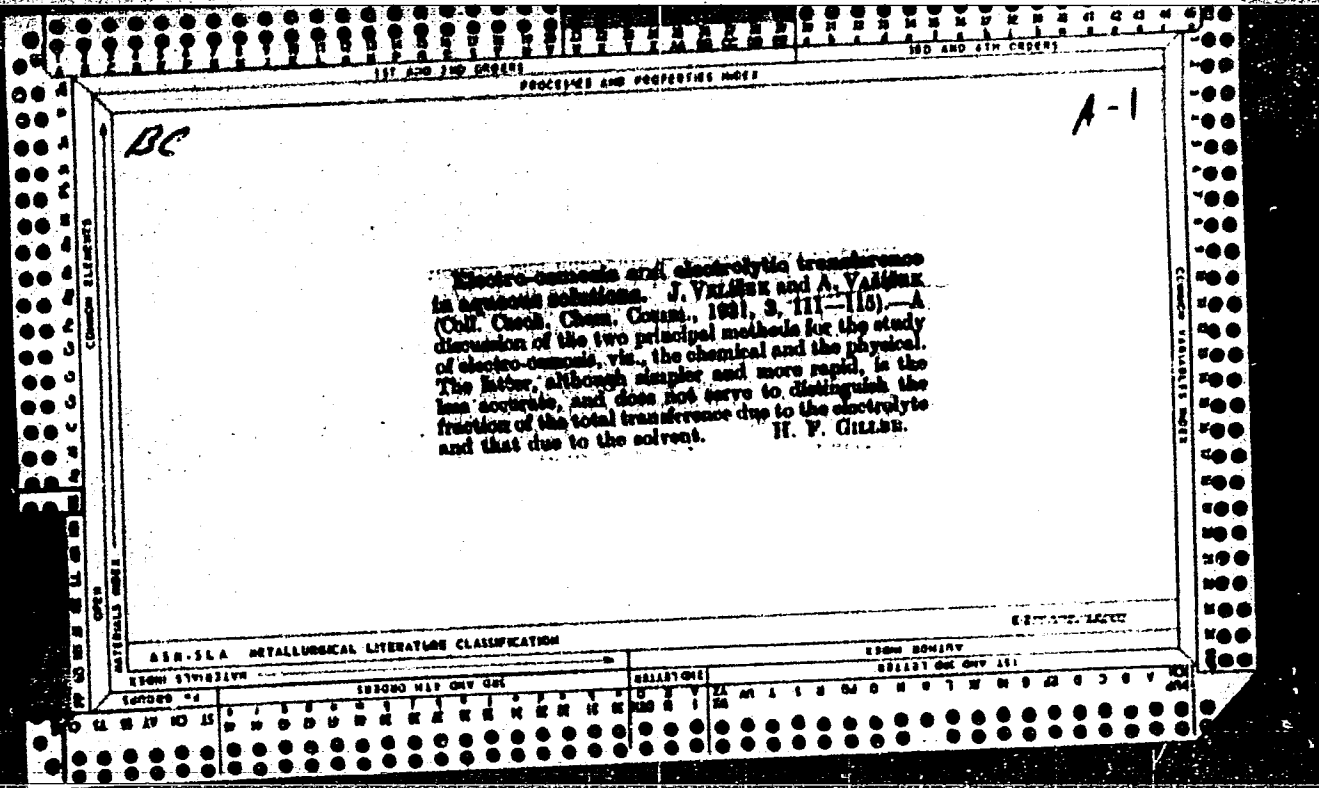
Card 1/2

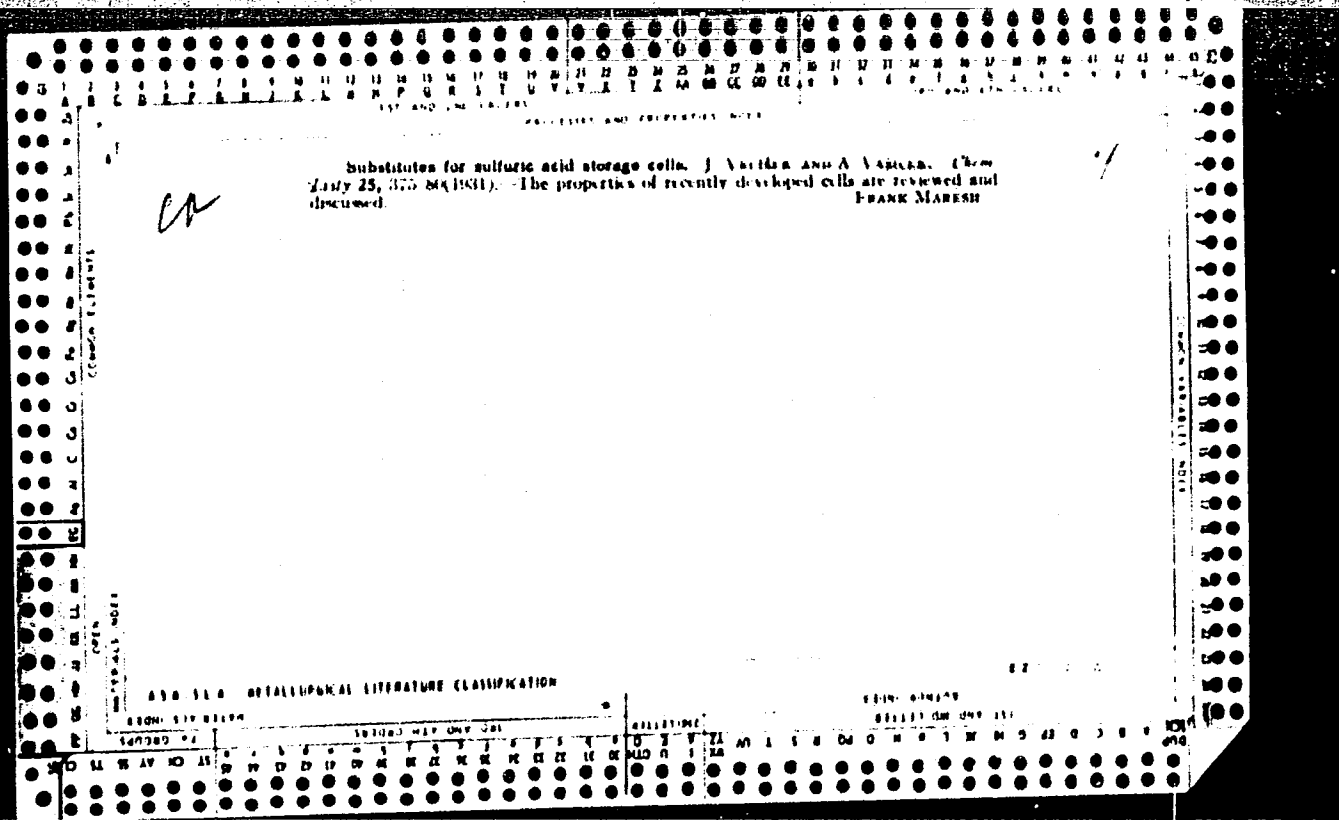
Some problems of ultrasonic ...

S/194/62/000/001/038/066
D201/D305

US inspection should be complemented by subsequent checking of the effect of detected defects on production and safety of operation of equipment. For this purpose, US inspection of all important equipment should be carried out during general overhaul periods or stoppages in work and after its replacement. It is shown that the volume of US inspection methods used in the past for this purpose which are of great importance from the point of view of national industry, was not adequate and the need for their systematic use is pointed out. A summary of US inspection as applied to metallurgy at the VZKG (CPR) is given; Western German 1957 standards of metallurgical US inspection are criticized. It is emphasized that the tests for convenience and applicability of US inspection methods should always be based on full knowledge of the related problems and on the results of experiments. 6 figures. 3 references.
[Abstracter's note: Complete translation.]

Card 2/2





PROCESSES AND PROPERTIES INDEX

ca

The electroosmosis on a ceramic diaphragm in aqueous solutions of some alkali halides. J. VMLÍSK AND A. VAMČEK, *Collection Czechoslov. Chem. Communications* 4, 428-43(1932).—Electroosmotic measurements on the ceramic diaphragm P_{∞} were made at concns. from 0.00005 to 1.0 *N* for LiCl, NaCl, KCl, KBr and KI. For medium values of the concns. investigated, the electroosmotic transport was the same for all electrolytes. The electrokinetic potential develops a max. for NaCl, KCl and LiCl; this max. does not appear in KBr or KI solns. Up to dilns. of 0.02 *N*, a ceramic and a kaolin diaphragm showed the same electroosmotic permeability; in more dil. solns. the electrolytic transport became 10 times as great for the ceramic as for the kaolin diaphragm. The electroosmotic permeability differences showed up principally in dil. solns. The permeability increased with the size of the pores and is in accord with the results of Manegold and Söfl on colloidion membranes.

2

FRANK MARSH

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

1st and 2nd EDITIONS

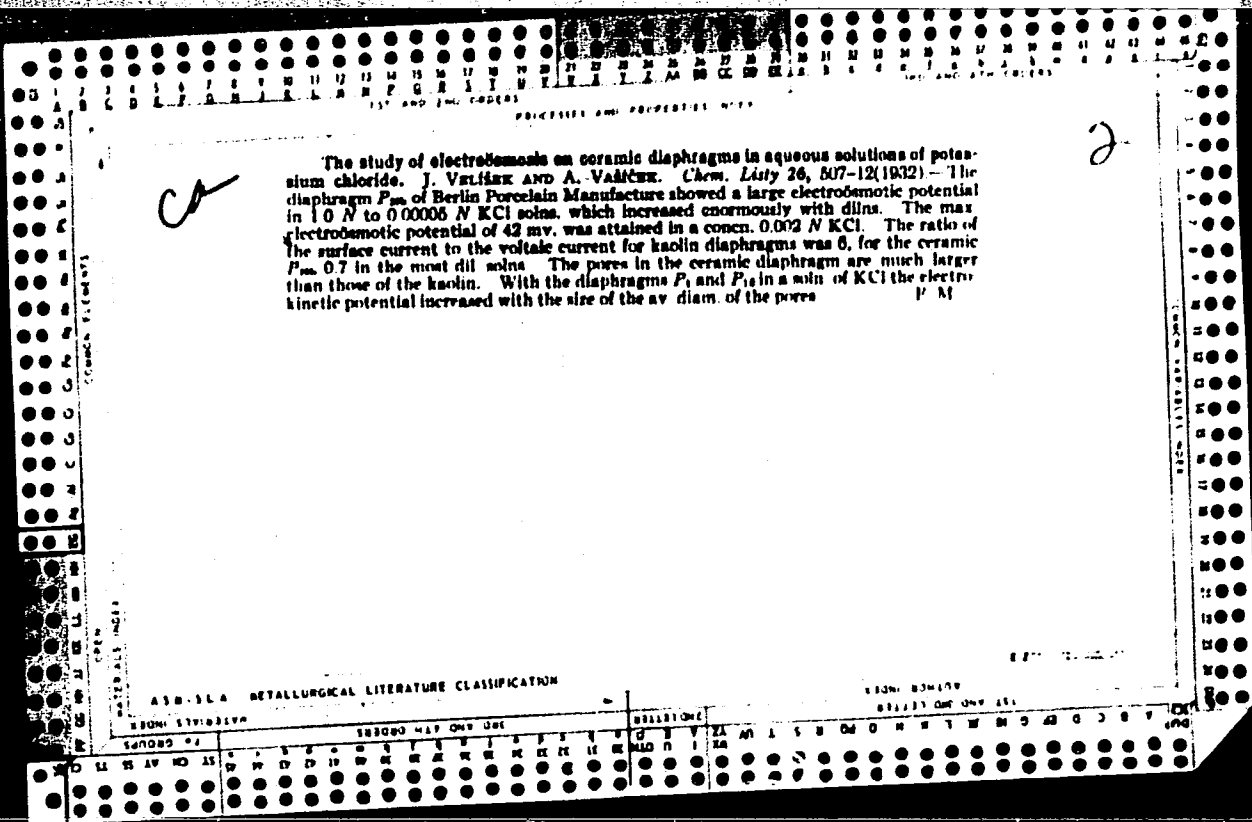
ca The electrokinetic potential on a ceramic diaphragm. A. VASILEK. *Chem. Listy* 26, 503-7(1932).—The electrokinetic potential of the diaphragm P_m by the electroosmosis method in aq. solns. of KCl was measured. The results agree with those of Bürgel found by the method of streaming potentials. In concn. less than 0.02 *N* the electrokinetic potential rose approx. linearly with the log of concn., reached a max. at 0.002 *N* KCl, and declined gradually with further dilns. In solns. more concd. than 0.05 *N* the electrolytic transport is large and predominates over the electroosmotic effect.

g
FRANK MARSH

A S B S L A METALLURGICAL LITERATURE CLASSIFICATION

SECTION: 234124

1st and 2nd EDITIONS



BC

2-1

Calcium electrode of the third order. J. Vanzant and A. Vakhov (Coll. Czech. Chem. Comm., 1963, 38, 10-15). Previous data for Ca electrodes of the third order are discussed and other electrodes

are investigated but none is found to be entirely satisfactory. It is unlikely that a satisfactory method will be found for determining $[Ca^{2+}]$ electrochemically. The electrode studied in most detail was $Hg|Hg_2(PO_4)_2|Ca_3(PO_4)_2|Ca^{2+}$. For $[Ca^{2+}]$ between 0.2 and 0.01N the hypothetical normal potential of Ca against the normal H electrode is approx. const. = 0.6100, but increases below these values, owing to the solubility of the depolarizer $Ca_3(PO_4)_2$. The solubility of the latter increases with 0.001N Ca^{2+} . There is a slow increase of potential with time due to decomp. of $Ca_3(PO_4)_2$ by H_2O to form $Ca(OH)_2$ and also to the reduction of the Hg^{2+} salt. It cannot be used in physiological solutions because of the presence of Cl^- and PO_4^{3-} . M. S. B.

COMMON ELEMENTS

OPEN MATERIAL INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

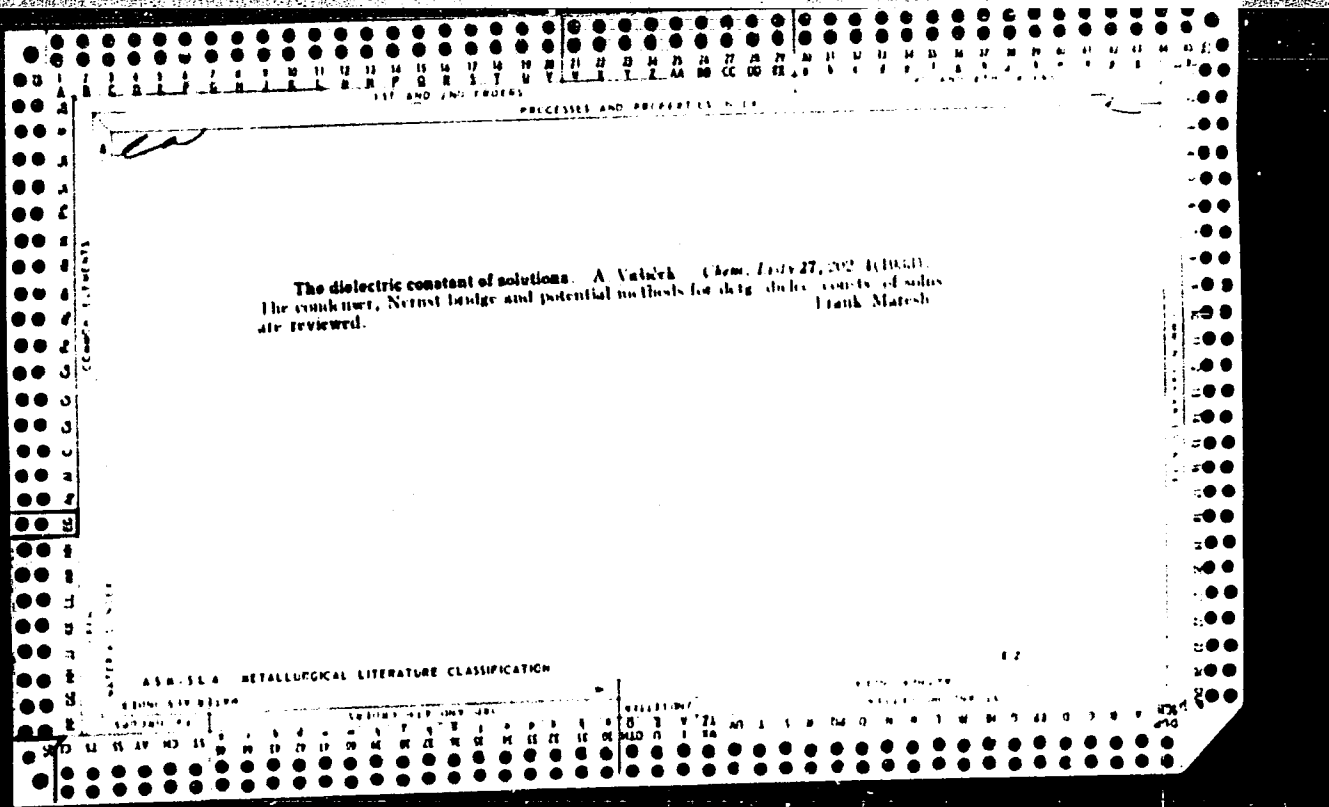
1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 1ST AND 4TH ORDERS

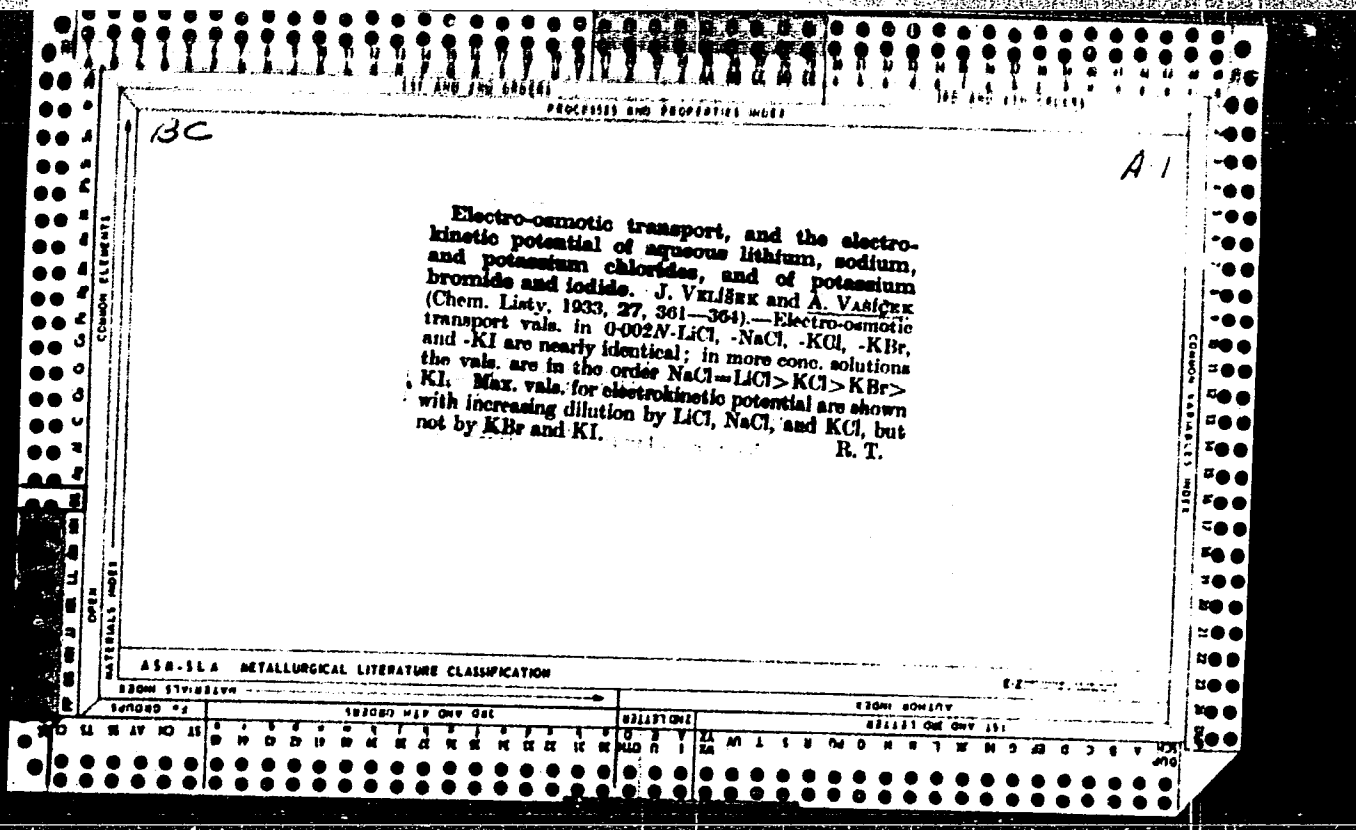
1ST AND 3RD LETTERS

1ST AND 4TH LETTERS

1ST AND 5TH LETTERS

1ST AND 6TH LETTERS





PROCESSES AND PROPERTIES INDEX

ca

Measurements of electroosmosis. A. Valkyk. *Chem. Listy* 30, 173-5(1936).—A cell contg. 3 pairs of electrodes, a capillary manometer, and a ceramic diaphragm immersed in a KCl soln. is presented. The app. is used to measure the augmented cond. of the electrolyte confined within the capillaries of the diaphragm and to compare it with the cond. of the KCl soln. external to the diaphragm, to det. the total transport as the electroosmotic and electrolytic transport expressed in l. per faraday, and to compute the electro-kinetic potentials according to the Helmholtz or Smolachowski theories. Since the measurements in dil. soln. begin to approach those of the redist. water used in making the soln. and may be affected by the diffusion of KCl from the agar electrodes, the cond. was measured progressively in 0.0005, 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5 and 1.0 N KCl in the cell and the detns. were repeated in the same soln. external to the cell. Before the measurements were made on the diaphragm the soln. was passed through the pores for 30 min. electroosmotically; in concns. exceeding 0.02 N KCl hydrostatic pressure was necessary to pass the soln. through the diaphragm. Frank Marsh

A18 31A METALLURGICAL LITERATURE CLASSIFICATION

PROCEDURES AND PROPERTIES INDEX

2

CA

Parametric measurements of the refractive index in the half-shadow. Antonin Vátek. *Sborník Československé Akademie věd, Brno 18, No. 48, 1-31 (1978); Chem. Zvest. 1980, 1, 8938-6.*—By means of a half-shadow arrangement and the polarisation spectrometer of Yuena, the n_D of various glasses, of quartz, and of liquids were detd. If ϕ is the angle of incidence of the rays on the surface being studied and α is the angle which the plane of incidence makes with the plane of the analyser, then for the case in which the plane of vibration of the polariser forms an angle of 45° with the plane of incidence, the refractive index n can be calcd. from the relation $n^2 = \sin^2 \phi [1 - \tan^2 \alpha \tan^2 (\alpha - 45^\circ)]$. For the glasses investigated, the n_D so detd. were lower in the 2nd or 3rd decimal place than the values detd. by the method of min. deflection. Values obtained by both methods agreed for quartz and for liquids. Differences in the n_D of the glasses were attributed to the formation of surface film by weathering of the glass surface. Surface films having lower n_D were produced artificially by treating the glasses with H_2SO_4 . $NaOH$ formed no such films but dissolved films already present. The artificial surface films produced interference phenomena so that their thickness could be measured. M. O. M.

ASB. 55A METALLURGICAL LITERATURE CLASSIFICATION

RESEARCH DIVISION

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
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19

The significance of surface layers in the chemical resistance of glasses and glazed surfaces. A. Vallet. *Natura* 23, 341-4 (1938); *Chem. Abstr.* 14, 170. From polarimetric studies V, concludes that 1.0 N H₂SO₄ forms a surface compd. with the glass which then protects the glass against any further action of the acid, and that 1.0 N NaOH does not form such a surface compd. and consequently the glass is not protected against the action of the NaOH. The results and concepts agree with the observations from industry; glasses are highly resistant to the action of acids but are etched by alkalis. F. M.

ASH-51A METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

19

CA

The index of refraction of a glass surface. A. Valček, *Skladské Rozhledy* 16, 9 (1939); *Glasstech* 70, 601 (1940).—
 By detg. the n of the surface and the interior of a given mass of glass, V. found that the n of the surface of the glass is lower than that of the interior of the glass. In flint glasses the differences can reach the 2nd decimal. These changes are attributed to the formation of surface layers. Old prisms which have been newly polished on one surface, showed the greatest difference between the n of the unpolished, 60 year old surface and the interior; whereas the difference was low between the newly polished surface and the interior. In the 45 years the n of the surface fell off about 0.01 more than that of the interior. The weathered surface layer is removed by polishing. Treating with N NaOH had no effect on n . However, N H₂SO₄ had a strong effect; a clear surface layer was formed by the chem. combination of the H₂SO₄ with the ingredients of the glass. This layer protects the glass from further attack of acid. NaOH forms no protective layer, and alkalis can corrode deep into the glass. If the glass is treated with NaOH before treating with H₂SO₄, the acid treatment will form a much stronger protective layer than when there is no NaOH pretreatment, because the glass surface is activated by the NaOH treatment. If the glass is first treated with acid and then with 1.0 N NaOH for 5 hrs., the surface is affected very much less because the protective layer formed by the acid is not dissolved. After 28 hrs., however, flint glass is affected somewhat by the NaOH soln., in crown glass the protective layer is almost entirely dissolved off. Quartz glass did not show any such change. NaOH forms such thick layers on flint glass that interference colors appear, while such phenomena were not observed in crown glasses. This protective treatment makes glasses resistant to atm. corrosion and is a means of producing articles with variegated interference colors.
 M. V. Condoide

E. J. ...

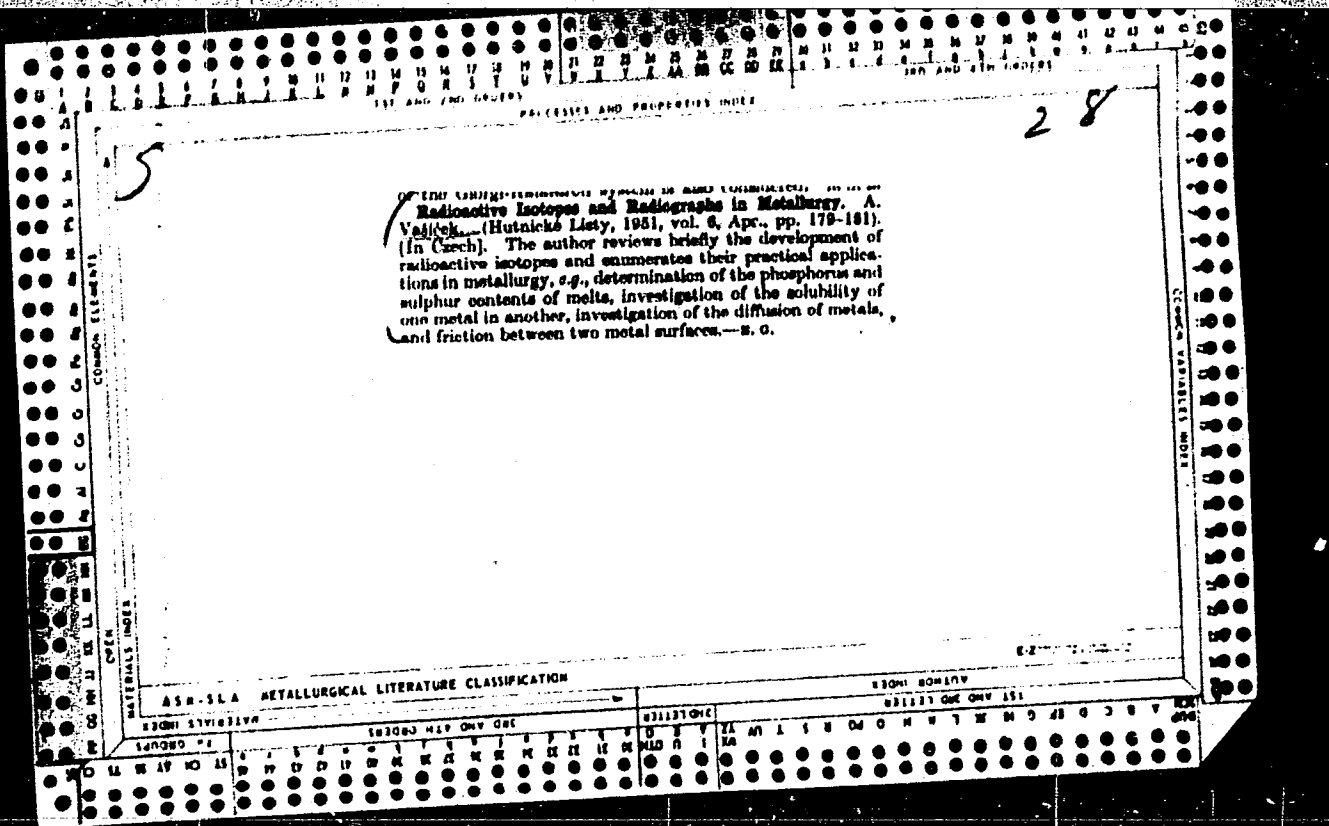
METALLURGICAL LITERATURE CLASSIFICATION

FROM POWERS

CA

19

Chemistry of the preparation of unimolecular layers on glass. Antonin Vaid'ek, *Chem. Listy* 39, 63-5(1945).
Some of V.'s observations in the chem. processing of glass surfaces are summarized: If the H_2SO_4 used for etching glass contains some Pb, the n of the layer increases, e.g. from 1.48 to 1.525. The surface layer contracts when exposed to air, and it is necessary to make the layer accordingly thicker.
M. Hudlicky



VASILEV, R.

"Tables of Optical Constants For Thin Metallic Films." p. 105.
(Pract. Vol. 23, No. 239-260, 1971, Brno.)

Vol. 3, no. 3,
SO: Monthly List of East European Accessions, Library of Congress, March 1, 54, incl.

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