SOV/11\*-59-6-29 33

The Problem of Considering Multiple Internal Reflections When Investigating Complicated Transmission Lines With SMF Instruments

of the reflection factors of two and more non-uniformities in a super-high-frequency signal transmission line. There are 4 block diagrams and 1 set of vector diagrams.

Card 3/3

**S/115/60/0**00/012/010/018 **BO21/B058** 

1 11

9.1400

AUTHOR:

Palatov, K. I.

TITLE:

Measurement of the Coefficient of Reflection From the Inhomogeneities of a Composite SHF Transmitting Line

PERIODICAL:

Izmeritel'naya tekhnika, 1960, No. 12, pp. 36-37

TEXT: The author has previously given a general method of detecting the inner reflexes in composite SHF transmitting lines (Ref. 1). In this paper he shows its utilization for measuring the coefficients of reflection from two successive inhomogeneities. The system of the first and second reflecting inhomogeneity is represented by a simulating equivalent circuit and is formulated mathematically. The spread of the true value of the coefficient of reflection as a function of the phase angles  $\beta$  and  $\gamma$  is illustrated in Fig. 2. The block diagram of a practical measuring device for the separate determination of the coefficients of reflection of two successive inhomogeneities in SHF transmitting lines is shown in Fig. 3. Well coordinated dielectric inserts which are connected between the investigated inhomogeneities in the transmitting line, are often used as

Card 1/2

#### 2007h

9.2570 (and 2503)

s/ na/6:/016/003/006/006 a. 6/B205

ATTHOR:

Palatov, K. I. Member of the Scientific and Technical Society for Rail. Engineering and Electrocommunication

TITLE:

Sensitivity of pircuits against the the direct amplification

in the superhigh imagneticy range

Radio 16Killian ( ) 16, 12 7, 1961, 75.80

TEXT: In the gresen's offer the author describes the sensitivity of direct amplification sircul in the superhigh frequency range by taking account of the offert of the lase factor, the amplification factor of the highfrequency block. Tarameters of the light law detector, the highfrequency pastant, the viler frequency passtant, the pulse duration and the reciprosition the paper law (after of the tolde signals. The formulas for the sensitive, of the ist ivery the derivate They are intended for engineering contribute The quint street call matter examples and intercompares the effective the init deal parameter. The results obtained compared the new first allocation the density of the last of Tulse Signals as Well to the first of the middle of the consistivity of

Jara 1 '5

8/19/6/19/19/19/19/19/19 B1/6/8205

Sensitivity of life the resouring ...

Card 2/5

the releiver in that high inequality obtail power at the releiver input in which the signal to holde ratio of the reliver output is equal to one. In this case the following expression holds:  $P_{SE} = kT \Delta f K_R$  (1)

 $P_{\rm SE}$  is the high-frequency eight power of the releaver input, kT  $\Delta f$  is the lower of noise at the input recipitation of the relative factor of the signs, course,  $K_{\rm E}$  is the rotte factor of the receiver.

Additional noise scenarion a joint passag of the signal and the noise through a nonlinear date for . Since it is difficult to take abcount of the noise in the interaction, it is smitted in gractice. The author describes a method with permit the solution of this problem. In this case an arbitrary prize to ideal, with the room of a sufficiently large number of components with increase irreproduce. Thus, this problem can be solved also for the franchises in if signal, which are amplitude-modulated by restangular passage. It can a smed to the letester characteristics can be approximated by the room of the voltage Us of the signal and voltage at the lete for, it is the same of the voltage Us of the signal and  $U_{\rm R}$  of the noise. The  $U_{\rm S}$  and  $U_{\rm R}$  which are passed regarded by pulses are

\$ | 5/108/61/016/003/006/006 | Sensitivity of circuits measuring... | B116/B205

expanded into Fourier series and introduced into (5)

$$i = b \left\{ \sum_{j=1}^{n} U_{ssj} \cos \left( 2\pi f_{j} t + \psi_{j} \right) + \sum_{j=1}^{n} U_{cj} \cos \left( 2\pi f_{0} + \frac{2\pi}{T} j \right) t \right\}^{2}, \tag{6}$$

The indices c and w denote the signal and the noise, respectively.

 $n = \frac{\Delta f_R}{\delta f} \text{ is an arbitrarily large number of averaged noise components (into which the continuous rectrum is split), } \Delta f_R \text{ is the width of the noise passband in the approximation of the noise spectrum by means of a rectangle.} \\ \delta_R \text{ is the arbitrarily small frequency band of a spectral noise component.} \\ U_{uj}, f_j, \psi_j \text{ is the amplitude, the frequence, and the phase, respectively, of the j-th noise component. } k \text{ is the number of the spectral single components in the band } \Delta f; f_0 \text{ is the carrier frequency, } 1/T \text{ is the pulse repetition frequency, } U_{cj} \text{ is the amplitude of the spectral signal component.} \\ \text{The graphical representation corresponding to formula (6) is shown in the Card 3/5}$ 

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Sensitivity of circuits measuring...

Figure. The author than deduces formula

$$K_{yw} = \frac{I_w}{I_{ww}} = \sqrt{1 + \frac{\frac{\Delta F}{\Delta I} \left(\frac{2\tau}{T}\right)^4 \left|1 + \sqrt{1 + \left(\frac{T}{2\tau}\right)^4 \left(\frac{2\Delta I}{\Delta F} - 1\right)}\right|}$$
(18)

for the coefficient  $K_{yu}$  which characterizes the amplifier gain of the noise when it passes, together with a pulse-modulated signal, through a square-law detector.  $I_{u\!u}$  is the total noise current,  $I_{u\!u}$  is the applitudeal noise current,  $\Delta F$  is the width of the passband for the video amplifier frequencies,  $\Delta f$  is the width of the rassband for high-frequencies. For Trequencies,  $\Delta t$  is the winth of the casscand for high-frequencies. For the analysis of formula (18) two concrete cases are studied: The case of a pulse modulation of a "meander" signal (27/T = 1, where T is the pulse duration) and the case of a nonmodulated signal ( $\tau/T$  = 7). It is demonstrated that in most cases the amplification of noise as a result of the interaction between signal and noise passing through a cquare-los detector, can be neglected. For the sensitivity PSE the formula

 $P_{SF} = kT\sqrt{2\Delta F\Delta f} K_{REF}$ 

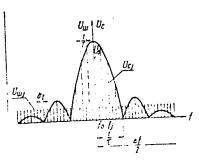
Card 4/5

\$/108/61/516/ 07/016/056 E106/E265

Sensitivity of circuits measuring...

is obtained. Karr is the noise flator of the high-frequency block. By means of formula (70) the sensitivity of receivers with wideband amplifiers (of the travelling-wave type) can be determined easily and wifficient accuracy. There are 1 figure and f Soviet-bloc references.

SUBMITTED: April 12, 1060 (initially)
September 00, 1960 (after revision)



Card 5/5

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

FALATON, Keie, kand. tekhnensuk

At the seientific congress in Leipzig. Vest. AN ESCR 35 no. 6196

Je 165.

(MTRA 1818)

VALITOV, Rafkat Amirkhanovich; PALATOV, Konstantin Ivanovich; CHERNYY, Arkadiy Yevelevich; TRET'YAKOVA, A.N., red.; SMILYANSKAYA, T.M., tekhn. red.

ar en la la compagnita de proprio de la la compagnitación de la compagnitación de la compagnitación de la comp

[Methods for measuring the principal characteristics of fluctuating signals] Metody izmereniia osnovnykh kharakteristik fluktuatsionnykh signalov. Pod red. R.A. Valitova. Khar'kov, Izd-vo Khar'kovskogo gos. univ. im. A.M. Gor'kogo, 1961. 140 p.

(MIRA 15:4)

(Radio measurements) (Radio-Testing)

<u>a. 1866 kwa wasani aliku katikusa kwa katiku kwa katiku kwa kwa katiku kwa katiku kwa kwa kwa kwa kwa kwa kwa</u>

ROBEEVALUE, 1.T.: FALATON, F.A.

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1. Zamestitel' giavnogo inzhenera shakaty im. Gubaina desertativere nego gornorminogo kembinata Euresey magnitucy anemali (for Ronzeville). 2. Nachal'nik buncvzryvnykh rabot charaty co. liberta Cosmoarotvenogo dermeniunogo komennata Euresey magnitus e come (for Palatov).

# PALATON, YA.N. PALATON, Ya.H. Increasing the life of picking stick yoke strap. Tekst.pres. 14 mo.6:50 Je 154. 1. Slesar' Perganskogo tekstil'nogo kombinata im. Dzerzhinakogo.

# Volunteer firemen visit apartment houses. Fozh.dele 7 no.11:11 (MIRA 14:11)

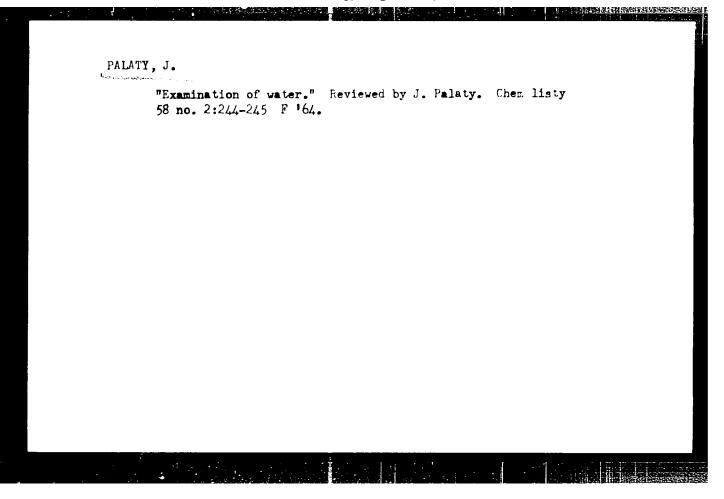
#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PALATY, J., inz., CSc.; SLADECEK, V., doc., dr., CSc.

Symposium on methods of determining some organic substances.

Vodni hosp 14 no. 1:8 '64.

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



P # 1 2.

Czechoslovakia / Chemical Technology. Chemical Production II-f

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1789

Author : Palaty J., Ruzicka S.

Title : Experiments on Purification of Cyanide-Containing

Sewage Water

Orig Pub: Voda, 1956, 35, No 9, 287

Abstract: Account of the results of laboratory experiments

on utilization of brown coal cinders. Diluted, spent plating solutions were filtered through a cinder filter (25 cm ir diameter, 66 cm deep, volume 32.5 liters). With a load of 1.2-1.7 g CN per 1 m<sup>3</sup> of cinders per hour the concentration of CN in the sewage water was lowered by 94%. Blowing with air at a rate of 0.7 m<sup>3</sup>/hour

Card 1/2

Czechoslovakia Chemical Technology. Chemical Products H-5 and Their Application

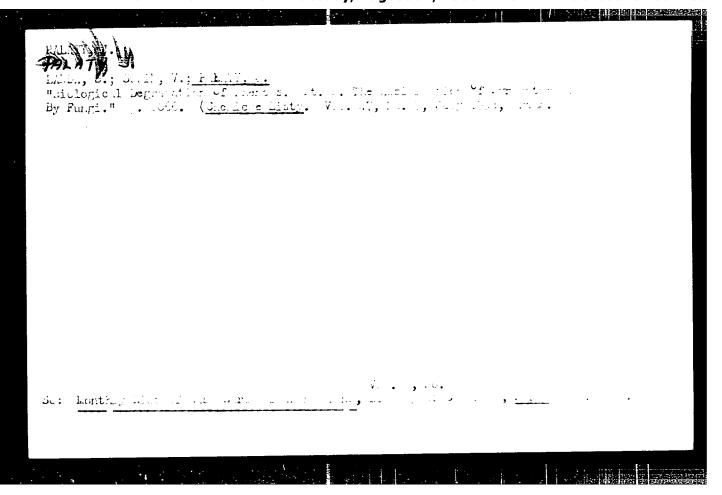
Water treatment. Sewage w ter.

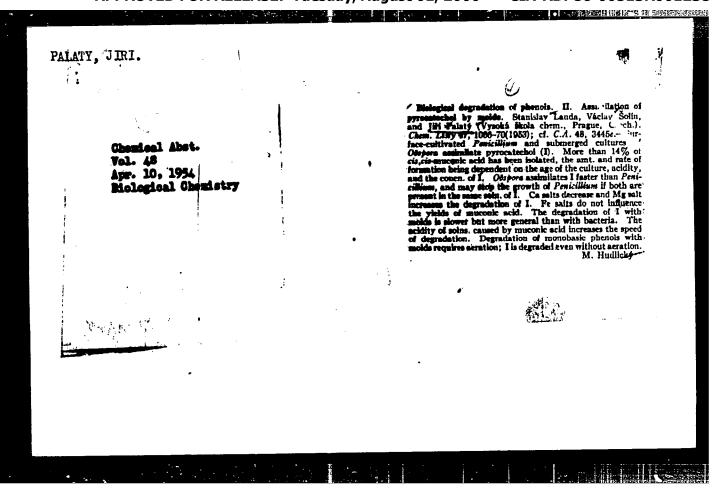
Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1789

increases the purification efficacy. Absorption of  ${\rm CN}^-$  by the cinders reaches 0.041% of the weight of the cinders.

Card 2/2

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238





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PALATY,						
	Biological purification of generator waste waters using oospore.  Sbor.pal.vod. VSChT 1958:259-282. (EEAI 9:4)					
	1. Katedra	technologie vody,	Vysoka skola chem	micko-technologicka,		
	Praha.	(Water)	(Cospora)			
		<u> </u>				

#### PALATY, Jiri; HORAKOVA-JAKUBU, Marta

The course and the rate of volatization of cyanides from water under natural conditions. Shor pal vod VSChT no.3, part 1:83-114 '59.

1. Katedra technologie vody Vysoke skoly chemicko-technologicke, Praha.

PALATY, Jiri; DEYLOVA, Libuse

The interference of some substances with the determination of phenols by means of 4-amino-antipyrine and dimethyl-p-phenylenediamine. Sbor pal vod VSChT 4 no.1:251-258 '60.

(EEAI 10:9)

1. Katedra chemicke technologie vody, Vysoka skola chemicko-technologicka, Praha.

> (Dimethylphenylenediamine) (Phenols) (Aminoantipyrine)

PALATY, Jiri; STANEK, Miloslav

Chlerination of cyanide effluents by injection into chlorinator. Sbor pal vod VSChT no.3, part 1:115-127 '59.

1. Katedra technologie vody Vysoke skoly chemicko-technologicke, Praha.

#### PALATY, Jiri

Colorimetric determination of cyanides. Shor pal vod VSChT 4 no.1: 259-267 '60. (EEAI 10:9)

1. Katedra chemicke technologie vody, Vysoka skola chemicko-technologicka, Praha.

(Colorimetry) (Cyanides)

PALATY, V.

Thermodynamic basis for the theory of the membrane potential.

Cesk. fysiol. 13 no.5:461-468 0 '64.

1. Fysiologicky ustav Ceskoslovenskej akademie ved, Praha.

#### PALATY, Vladimir

Determination of sulfate ions. Shor pal vod VSChT no.3, part 1:55-67 159.

SAN STAN STAN STAN STAN STAN

1. Katedra tepelne techniky a strojirenstvi Vysoke skoly chemicko-technologicke, Praha.

B. Harriston Fr. 1980 Carrier

### PALATY, Vladimir

Determination of sulphate, II. Shor pal vod VSChT 4 no.1:199-206 (EEAI 10:9)

1. Department of Power Engineering, Faculty of Technology of Fuel and Water, Institute of Chemical Technology, Prague.

(Sulfates)

THE REPORT OF THE PARTY OF THE

# PALATYUK, A.V., inzh.

Assembly and installation of the support of the conical cable dumper. Shakht.stroi. 6 no.11:25-26 N 162. (MIRA 15:12)

1. Trest Soyuzshakhtospetsmontazh.
(Hoisting machinery)

THE RESIDENCE OF THE PERSON OF

CCESSION NR: AP5010663	cz/0013/65/000/004/0139/0142
JUHOR: Palatzky, A. (Graduate chemi	.et) #
UNIE: The development of a porcela- peramics factories of the GDR	in of high mechanical strength in the technical.
SOURCE: Sklar a keramik, no. 4, 196	5, 139-142
TOPIC TACS: electric power transmis porcelain, electric ceramic, breakdo porcelain, porcelain insulator	sion, high voltage transmission, high strength electric strength, electric
factories producing electrotechnical strength. The tests show that the S ments of high-strength electrotechni long-distance transmission of electr tages has stimulated interest in the	sts made on various materials in East German ceramics from porcelain of high mechanical igmalan material best meets the high requirecal ceramics. The growing interest in the ical energy at very high and the highest voldevelopment of a high mechanical strength porcial states have carried on investigations to in the basis of the research in the field it is

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of the KWH factory as to	erials be adopted for all ne standard material for p ll-grain, high-silicon mat	Pactories: 1) type E 15 ma orcelain for low-voltage an erial of the same compositi ngth material; 3) a high-al 1 strength but also corrosi	on as
material which would have sistence. These materi, and 9 figures.	ale must be tested in oper	ation. Orig. art. has: 3 t	ables
	The second of the second of the	wamio works	
ASSOCIATION: VKB Keram	deche Verke, Hermsdorf (Ce	ramis Works)	
ASSOCIATION: VEB Kerem SUBMITTED: CO RO REF BOY: COO		ramis Works)	
SUBMITTED ( OD. 14	MCL: 00	remia Works)	

BABAZADE, B.K.; AKEMEDOV, A.M.; PALAUDIN, A.M.

Growth of petroleum and gas reserves during the 40 years of the Soviet regime in Aserbaijan. Azerb. neft. khoz. 39:9-13 Ap '60.

(Azerbaijan—Petroleum geology)

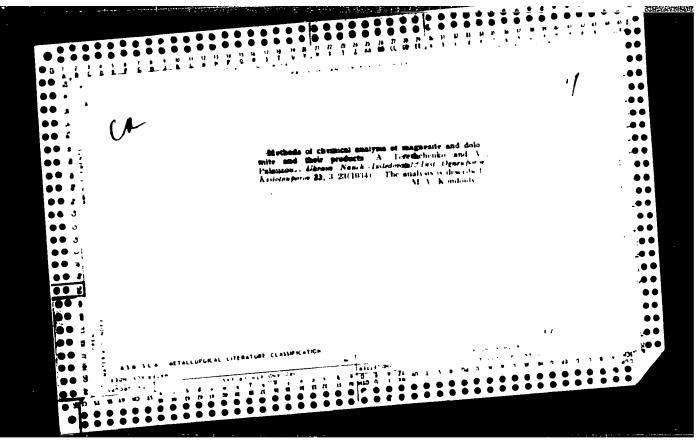
(Azerbaijan—Gas, Hatural—Geology)

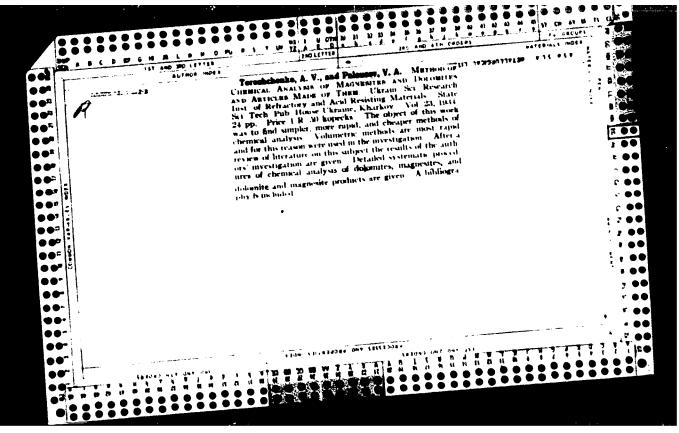
Kirnaukhov, A.S.; Mizera, M.; Palaush, R.

Photometric determination of strontium. Zhur.anal.khim. 15
no.4:502 Jl-Ag '60. (Mira 13:9)

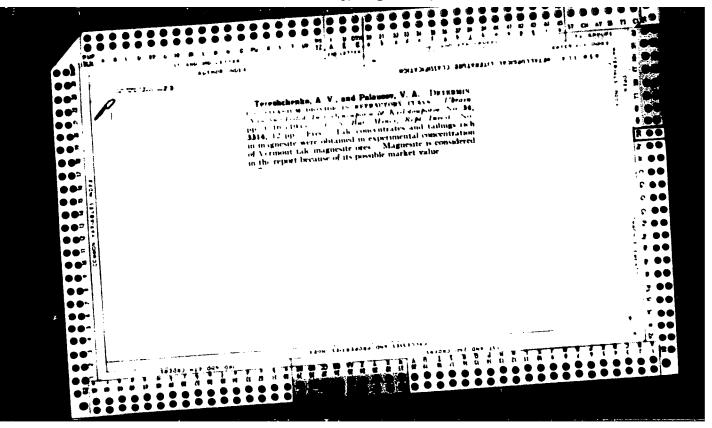
1. Higher Pedagogical School, Praga, Chechoslavakia. (Strontium--analysis)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238





"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



PALAVANDISHVILI, B.I.

Contribution of the scientists of Georgia to agriculture. Zemledelie 27 no.2:9-13 F '65.

1. Zamestitel' ministra proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Gruzinskoy SSR.

LAGIDTE, I.M.; Harvide, I. .. or a substitution, protestions several formulations involved in the presence of anhydrous Aluly. Soco.

N. Gruz. SSR 28 no.4:17-4:to April.

1. AN Gruzinskey Ale, institut selmil im. P.S. 18 (Maissvill).

Toilisi. Submitted Fermany 2, 19 1.

USSR / Human and Animal Physiology (Normal and Pathological). Reproduction

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97783

Author : Mgaloblishvili, Ye. M., Palavandishvili, I. I.

: Index of Vitamin C in the Maternal Blood, Fetus, and Placenta Protection. Tissue in Premature Title

Delivery

Orig Pub: Sb. tr. N.-i. in-t okhrany materinstva i detstva

GruzSSR, 1956, 7, 89-92

Abstract: In 65 women who had premature labor, the content of of vitamin C in the blood of mother, fetus, and placenta was lowered. Vitamin C should be administered during pregnancy for prophylaxis of premature labor.

--Author's summary

Card 1/1

### PALAVANDISHVILI, Sh.Sh.

Gigantic coprolith in a megadolichocolon. Khirurgiia no.62113-114
Je '61. (MIRA 14211)

1. Iz Yelgavskoy gorodskoy bol'nitsy, Latviyskaya SSR. (COLON-AHNORMITIES AND DEFORMITIES) (CALCULI)

PALAVANDISHVILI, Sh.Sh. (Riga, ulitsa Karla Marksa, dom 22, kvartira ?)

Surgical treatment of esophageal diverticulum. Vest. kmir. 91
no.9:110 S'63. (MIR. 17:4)

1. Iz Rizh kogo onkologicheskogo dispansera (glavnyy vrachK.N. Mordoshov).

```
PALAVAHDISHVILI, Sh.Sh. (Riga)

Metal ring for angiorrhaphy. Skep.khir. 4 no.2:60-61

Mr-Ap '59.

(BLOOD VESSELS, surgery,
metal ring for angiorrhaphy (Rus))
```

PALAVNEV, T.; KHRISTOVA, El.; DINCHEV, D.; TAKOVA, T.; BIKS, St.

Introduction of boron fertilization in Bulgaria. Izv Inst
"Nikola Pushkarov" 4:89-131 '62.

BICCORN, As., prof. der. GALEVA, 7., der. FALAVERY, 1., der. RATEON, 1.

Prof. TSvetan Statkov, "ottostonding Member of the Sugarian Academy of Agricultural Octences, is sixty. Tiv. Inst "Nikola Pushkarov" 7:5-6 %.

1. Chlenovi na Redaktsionnata kolegila, "livestifa na Instituta za pochvoznanie i agrotekhnika "Nikola Pushkarov".

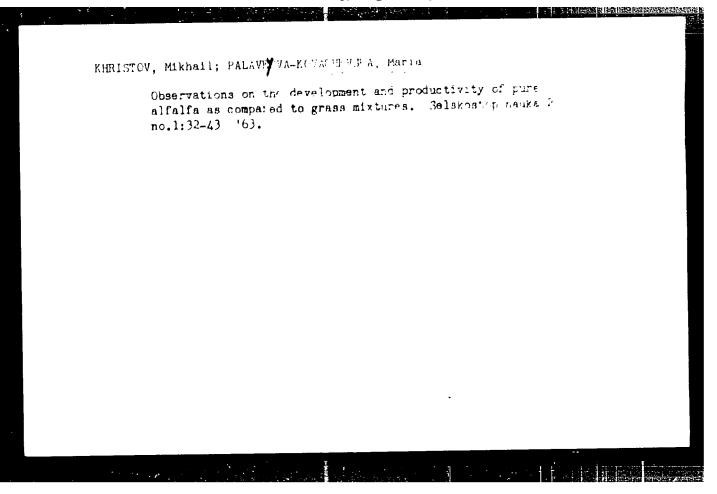
D COUNTRY Bulgaria CATEGORY 78211 ABS. JOUR. : AZXhim., No. 22 1953, 50. : Falaveev, T. AUTHOR : N. Pushkarov Institute for Soil Research : Boron Content in the Chernozems and Gray Forest INST. TITLE Soils of Northern Bulgaria ORIG. PUB. : Nauchni Trudi Inst Pochv Izsled 'N. Pushkarov,' 3, 409-433 (1957) : The B content (in %) of chernozems was found to be as follows: total, 2.8.10 3-5.5.10 3, water soluble 9.10 3-10.10 ; gray forest soils were found to contain 3.3.10 3 total B and 3.10 3-ABSTRACT 5.10 % water soluble B. The highest B content was observed in the salted [sic] soils of the Karaboaz Flain (total B n·10<sup>-2</sup>, water soluble B 2.2.10 %). Over 80% of the boron found in chernozems over fluvial silt is found in the form of tourmaline. The territory of Northern CARD: 1/2

### PALAVEYEV, T.

Boron in Chernozems and gray forest soils of northern Bulgaria [with summary in Anglish]. Pochvovedenia no. 9:116-122 '58.

(MIRA 11:10)

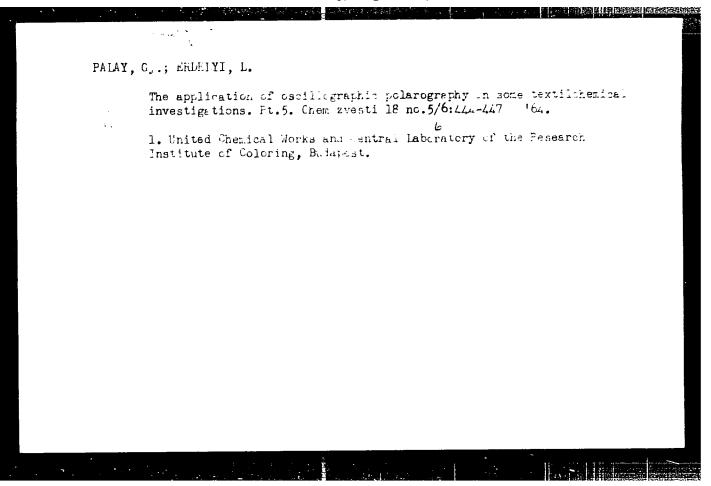
1. Pochvennyy institut imeni M.Pushkarova, Sofiya.
(Bulgaria--Minerals in soil)
(Boron)



SYRBOVA, S. [Surbova, S.]; PALAVEYEVA, M. [Palaveeva, M.]

Study on the insecticide action of certain Bulgarian plants. Trudy epidemiol mikrobiol 8:203-205 [61 [publ. 62].

1. Nauchno-issledovatel\*skiy institut epidemiologii i mikrobiologii (for Surbova). 2. SSI im. G. Dimitrova (for Palaveeva).



UDYABSKIY, Bikoley Iskovlevich; PALAY, Polikarp Avtonemovicha, TOMASHPOL'SKIY,
Leonid Merkovich; STRIZHOV, N.I., redaktor; BENAH, Yu.K., vedushchiy
redaktor; MUKHIRA, B.A., tekhnicheskiy redaktor
[Technique and technology of boring oil and gas wells in the sixth
five-year plan] Tekhnika i tekhnologita burentia neftiacykh i
gasovykh skvashin v shestoi platiletke. Moskva, Gos.nauchno-tekhn.
izd-vo nefti gorno-toplivnoi lit-ry, 1957. 127 p. (MIRA 10:7)

(Oil well drilling) (Gas, Hatural)

EWT(m)/EWP(i)/T 15414-66 SOURCE CODE: UR/0324/65/000/004/0017/0022 ACC MR: AP6000458 3. 3. 3. 3. AUTHORS: Palayma, Yu.; Matukonis, A. ORG: Kaunas Polytechnic Institute (Kaunasskiy politekhnicheskiy institut) TITLE: Variation in the properties of nonuniform fibers with repeated stretching SOURCE: IVUZ. Tekhnologiya tekstil'noy promyshlennosti, no. 4, 1955, 17-22 TOPIC TAGS: textile, textile industry, shear modulus, caprone, acetate, strain gage, synthetic fiber/ Schopper dynamometer ABSTRACT: The behavior of nonuniform two-component fibers under repeated stretching is studied, and the laws of the variation in the basic properties of the system and its components are examined. The experiments were performed with viscose capron and acetate capron twisted fibers. Electrotensometric apparatus based on the Schopper dynamometer was used to test the fibers at high, amplitudes and low frequencies. The amplitude was 2, 5, and 10% of the initial length of the specimen (500 mm). The rate of deformation was 8.33 mm/sec and the number of cycles was 50. A change in the angle of inclination of the components affects chiefly the initial modulus of rigidity of a nomuniform fiber. The strength and breaking elongation of a nomuniform

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fi	ber an	d its raphs	compone and 1 t	nts du able.	ring cycli	.c stretchin	R ele	almost und	hanged.	Orig.	art.
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The filtering multiplier for the study of some medianical gropertian of nonuliform year. Eve eys. were: vav.; teah. teks. prom. m. 3:19-5 164.

The namedia profitekunichetskiy institut.
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### PALAYYA, A.

Some remarks on the ilated ution of stress in semiclastic spaces, p. 121.

INZEMMRSKE STAVBY. (Ministerstvo stavebnictbi)
Praha, Czechoslovakia, Vol. 7, No. 4, Apr. 1959.

Monthly List of East European Accession, (EEAI), LC, Vol. 2, No. 12, Dec. 1959. Uncl.

#### PHASE I BOOK EXPLOITATION sov/3623

# Palazky, Alfred

Tekhnicheskaya keramika (Industrial Ceramics) Moscow, Gosenergoizdat, 1959. 174 p. 4,800 copies printed.

Translator: M.L. Mirkin; Ed.: P.O. Gribovskiy; Tech. Ed.: G.I. Matveyev.

PURPOSE: The book is intended for students at schools of higher technical education and engineers specializing in industrial ceramics.

COVERAGE: The book, a translation from German, presents basic principles of the production and physical and chemical properties of some new materials used in the effectrical industry and in special fields. It describes methods for processing oxides and the production of articles from clay, beryllium oxide, spinels, magnesite, zirconium, and thorium oxide. No personalities are men-tioned. There are 60 references: 47 German, 9 English, 2 Soviet, 1 French, and 1 Italian.

card 1/3

sov/3623	
ABLE OF CONTENTS:  General Processing Methods  1. Fine grinding 2. Plastic forming of pure oxide materials 3. Calcination process  Special Processing Methods 1. Special steatite materials 2. Materials with low temperature coefficient of expansion (TKR) 3. Rutile ceramics (materials containing 80% to 100% TiO <sub>2</sub> ) 4. Temperature-resistant dielectrics 5. Rutile and rare-earth temperature-resistant dielectrics 6. Alkali-earth titanates	3 3 15 17 24 44 53 71 78 97
6. Alkall-earth oldermistors) 7. Semiconductors (thermistors) 8. Ferromagnetic ceramic materials 9. High-refractory materials 10. Sintered spinel (sinter spinel) 11. Sintered magnesite (sinter magnesite) 12. Sintered beryllium oxide (sinter beryllium) 13. Card 2/3	137 149 151 158

**11.1集 加热及压动**组 6 t. 36h81-65 UR/0204/64/004/005/079E/0803 ACCESSION NR: AP5010565 AUTHOR: Shopov, D.; Dyankov, St.; Kotsev, N.; Chausheva, L.; Palazov, At TITIE: Investigation of aromatic hydrocarbons of Pleven Petroleum SOURCE: Neftekhimiya, v. 4, no. 5, 1964, 798-803 TOPIC TAGS: aromatic hydrocarbon, gasoline, petroleum, chromatographic analysis, IR spectroscopy Abstract: The aromatic hydrocarbons of gasoline isolated from petroleum in the region of Dolni-Dybnik, Plevenskaya Oblast, were investigated by chromatography and infrared spectroscopy. The aromatic portion of the gasoline fraction of this petroleum contained 34 hydrocarbons; 31 were identified by infrared absorption spectra. The structural type was established for the other hydrocarbons. Orig. art. has 5 graphs and 2 tables. ASSOCIATION: Institut organicheskoy khimii Bolgarokoy Akademii neuk (Institute of Organic Chemistry, Bulgarian Academy of Sciences) SUB CODE: FP, OP SURMITTED: 24Feb64 ENCL: 00 OTHER: 009 JPRS NO REP SOVE OOS Card 1/1

SHOPOV, D.M.; FALAZOV, A.N.

Study of the system chromium oxide - oxygen by infrared spectroscopy. Kin.i kat. 6 no.5:86a..868 S.-0 '65.

(M!RA 18:11)

1. Institut organicheskoy khimii Bolgarskoy akademii nauk, Sofiya, Bolgariya.

PAL'CGIK, G. I.

"Physical methods of treatment in military-vet erinary practice," In symplement Nauch - prakt. raboty vojen-vet. sluzhby, Moscow, 1946, p. 14-18

SO: U-3850,16 June 53, (Letopis 'Zhurnal 'n kh Statey, No. 5, 1949).

PAL'CHAK, N.

Now even we are doing this. Voen. znan. 40 no.2:22 F '64.

(MIRA 17:2)

1. Instruktor oblastnoy shi oly grazhdanskoy oborony Dobrovol'nogo obshchestva sodeystviya armii, aviataii i flotu, Aktyubināk.

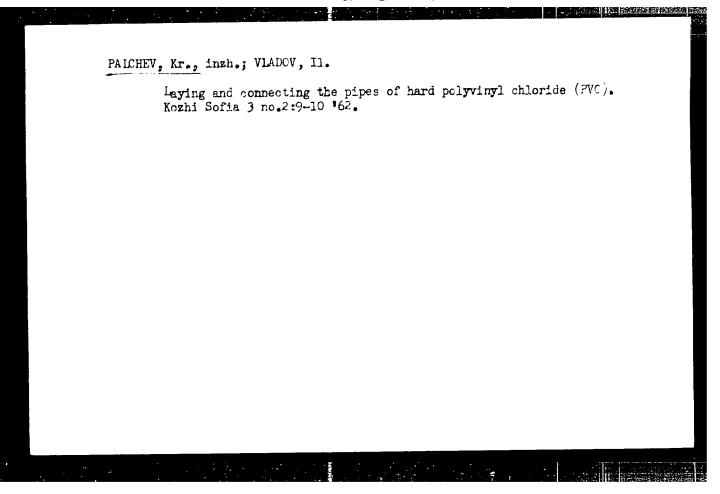
MOGILEVSKIY, Dmitriy Aleksandrovich, dotsent; BABKOV, Valeriy Fedorovich, prof., doktor tekhn.nauk; SMIRNOV, Andrey Sergeyevich, kand.tekhn.nauk; ABRAMOV, Leonid Tikhonovich, kand.tekhn.nauk; ZAYTSEV, Filipp Yakovlevich, kand.tekhn.nauk; ZAMAKHAYEV, Mitrofan Semenovich, kand.tekhn.nauk; NIKITIN, Sergey Mikhaylovich, inzh.; BKHULYA, A.K., prof., retsenzent; DUDKIN, P.A., kand.tekhn.nauk, retsenzent; AVDEYEV, V.N., retsenzent; KARTASHEV, V.A., retsenzent; PAL'CHEV, A.G., retsenzent; ROMANENKO, I.A., prof., retsenzent; BARATS, L.A., prepodavatel', retsenzent; BASKEVICH, N.I., prepodavatel', retsenzent; BEL'SKIY, A.Ye., prepodavatel', retsenzent; KALUZHSKIY, Ya.A., prepodavatel', retsenzent; chyanov, V.G., red.; MAL'KOVA, N.V., tekhn.red.

[Locating and designing airfields] Izyskaniis i proektirovanie aerodromov. Pod red. V.F.Babkova. Moskva, Nauchno-tekhn.izd-vo M-va avtomobilinogo transporta i shoaseinykh dorog RSFSR, 1959.

(MIRA 13:3)

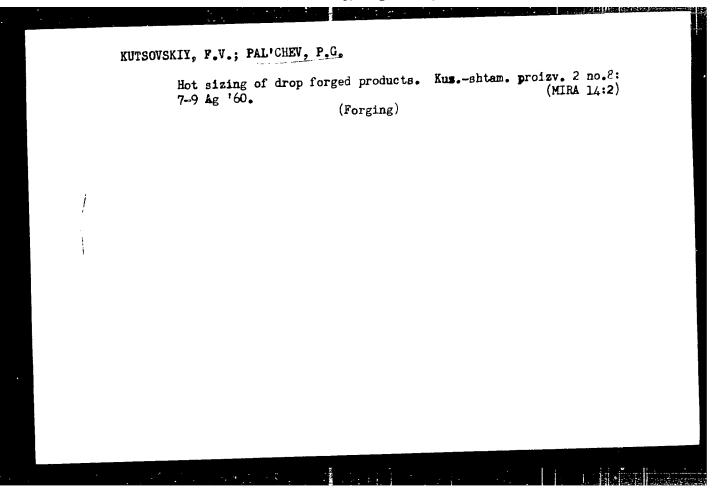
l. Khar'kovskiy avtomobil'no-dorozhnyy institut (for Romanenko, Barets, Baskevich, Bel'skiy, Kaluzhskiy).

(Airports---Planning)



PAICHEV, Krasimir, inzh.; SIMEO. CV, Kuncho, inzh.; VLADOV, Iliia What handbook is indispensable. Some critical notes on the Pt. 2 of the "Handbook on rubber and plastic materials." Kozhi Sofia

3 no.2:16 62.



#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

PAL LACUSTAYA

POLAND/Electrochemistry

B-12

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26310

Author : Pal'chevskaya

Inst : Academy of Sciences of Poland

Title : Influence of Polar Organic Substances and Catalyst Poisons on

Overvoltage of Hydrogen on Nickel and Iron Catodes

Orig Pub : Byul. Pol'skoy AN 1956, Otd. 3, 4, No 1, 37-42; Bull. Acad. Polon.

Sci., cl. 3, 1956, 4, No 1, 37-42

Abstract : The influence of additions of As203 (I) (100 mg per lit) and

(C6H<sub>5</sub>CH<sub>2</sub>)<sub>2</sub>SO (II) (2 to 100 mg per 1it) to 1 n. H<sub>2</sub>SO<sub>4</sub> on the shape of polarization curves (PC) of Ni and Fe cathodes in the range from 10<sup>-3</sup> to 0.1 a per sq.cm was studied. It was established that the addition of II in the amount above 30 mg per lit (in case of Ni) or 20 mg per lit (in case of Fe) sharply rises the potential E from ±0.65 to -0.75 v (in case of Ni), or from -0.7 to -0.8 v (in case of Fe); this is accompanied by an increase of dimensions and alteration of shape of H<sub>2</sub> bubbles. The same effect is observed also in presence of I, at which occasion the shift is revealed at a more positive E: -0.6 v (Ni) and -0.7v

Card: 1/2

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UR/0000/65/000/000/0084/0090

AUTHOR: Balkasheva, L. U.; Palchevskaya, A. Ye.; Goncharenko, S. V.

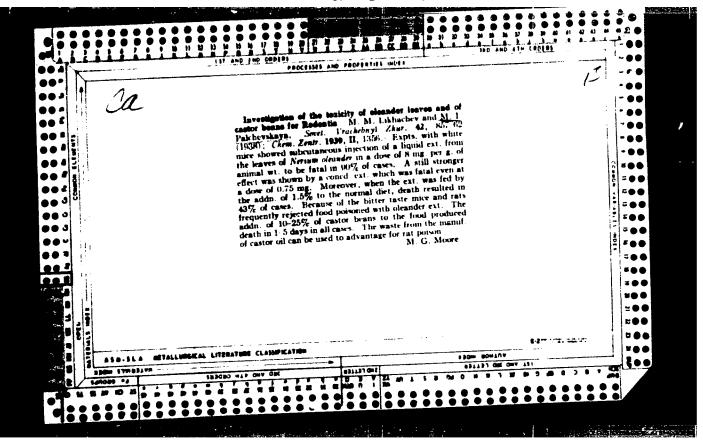
TITLE: The effect of fast neutrons on the culture and morphological characteristics of Bacillus mesentericus

SOURCE: AN UkrSSR. Institut fiziologil. Biologicheskoye devstviys neytronnogo izlucheniya (Biological effect of neutron radiation). Kiev, Naukova dumka, 1965, 84-90

TOPIC TAGS: fast neutron, neutron radiation; biological effect, Barillus, gamma radiation.

ABSTRACT: Results are presented of a study of the cultural and morphological properties of variants of Bacillus mesentericus no. 10, which were isolated during irradiation with fast neutrons. This work is part of a continuing investigation of the interconnection between changes of these properties and the formation of hydrolytic Ferments during irradiation. A suspension of the bacteria was irradiated with fast neutrons (doses of 50-1000 rad) and cultured on various media. Then the growth of colonies was examined. It was found that morphological changes were caused by lower doses of neutrons than by other types of radiation (for instance, Co<sup>60</sup>, gamma radiation). In most cases no essential differences were noted in the Cord 1/2

penavior of cultures grown Bacilius mesentericus no. voluted surface, convex ce the initial strain of the lowing morphological varia loped edges; 2) flat wrink wrinkled area; 3) pigment posit on the surface; and	10 is characterized by nter, and uneven edges bacteria with Co <sup>60</sup> gammats were isolated: 1) led variant—with flat, variant—green and oran 4) mucous varient—with	grayish-white colonies of As a result of irradia rays and fast neutron smooth variant—with graying concave center surrounge colonies with powder	with a con- lation of s, the fol- een scal- ded by white de- mucous
edges. Orig. art. has: 7		nstitute of Microb clog	, [J8]   r, kessel
ASSOCIATION: Institut mik			如何,这位是一个人,只是这样的。
ASSOCIATION: Institut mik AN UkrSSR) SUBMITTED: 22Feb65	ENCL: 00	SUB CODE: LS	
AN UKrSSR)	ENCL: 00	SUB CODE: LS -ATD PRESS: 40:5	



Effect of certain analgesics on the course of acuts suppourative inflamnation. Trudy iX: 2:85-97 '55 XIEA 11:8)

1. Kafedra farmakologii (zav. - deystvitel'nyv chlen AMN IJSR prof. V.V. Zakusov) i kafedra patologicheskoy snatomii (zav. - prof. M.A. Zakhar'yavekaya) Fervogo Leningradskogo meditsinskogo instituta imeni akademika I.P. Pavlova.

(ANALGERICS)

(ANTIPAL GITTICE)

PALLOHEVORY

POLAND/Chemical Technology. Cellulose and its Derivatives.

H

Abs Jour: Ref. Zhur-Khimiya, No 12, 1958, 41877.

Author : May, Pal'chevsky.

: A Comparison of Roe's method for Evaluating the Complete-Inst Title

ness of Cellulose Pulping With That of Kung, Bjorkman

Sieber and Oestrand.

Orig Pub: Przegl. papiern., 1957, 13, No 10, 319-320.

Abstract: The degree of completeness of cellulose pulping (C) is usually determined in PNR by the methods of Kung, Bjorkman and Sieber. Kung's method is applied exclusively to normal, hard, sulfite C; Bjorkman's method - for soft sulfite C; Sieber's method - for sulfate C; Roe's method is applicable for C with various purposes and various (small, large) lignin con-

: 1/2 Card

20

PACCHEVS K. V. 17.

BEYL! Yanka (Ivan) Antonovich; PAL'CHEVSKIY, A. [Pal'cheuski, A.], red.;

KALEHTES, G., tekks. red.

[Through the eyes of a friend; Polish diary] Vachyes druha; pol'ski
dsionnik. Ninsk, Dsiarsh. vyd-va BSSR, 1956. 97 p. (MIRA 11:8)

(Foland—Description and travel)

PALCHEVSKIY, A. P., Eng.
Water Pipes
Carrying capacity of steel pipe lines. Bidr. stroi. 21. 75. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, September 13521958, Uncl.

· AREA BISH KENY STATES OF

- 1. PALCHEVSKIY, A. P., Eng.
- 2. USSR (600)
- 4. Water Pipes
- 7. Coefficient of narrow drop. Gidr. stroi. 22, No. 2, 1953.

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

PALCHEVSKIY, A. P.

USSR/Engineering - Hydraulics, Conveyance

May 52

"Transportation Capacity of Steel Pipelines," A. P. Palchevskiy, Engr

"Gidrotekh Stroit" No 5, pp 43-45

Defines terms "transportation capacity" in application to pulp-conveying pressure pipes and develops formulas and method for designing pipelines. Formulas, based on principle of Reynold's dynamic similarity, are universal and adaptable for calcn of pressure pipelines for work with any mineral suspension such as sands, clays, gravel, slag, coal, fine ores, etc.

PAL'CHEVSKIY, A.S., inzh. New kind of bearing element for structural units. Prom. stroi. (MIRA 16:10) 40 no.7:54-55 Jl '63.

EWI(d)/EWP(m)/EWP(w)/EWP(w)/EWP(k) I IP(c) SOURCE CODE: UR/0198/66/002/009/0037/0043 L 01227-67 ACC NR: AP6032390

AUTHOR: Pal'chevskiy, A. S. (Kiev)

ORG: Institute of Mechanics, AN UkrSSR (Institut mekhaniki, AN UkrSSR)

TITLE: Designing cylindrical stringer-stiffened shells of minimum weight under axial compression

SOURCE: Prikladnaya mekhanika, v. 2, no. 9, 1966, 37-43

TOPIC TAGS: cylindric shell, stiffened shell stringer, stiffened shell, minimum weight shell, minimum weight design, amindly seemed shell burklung

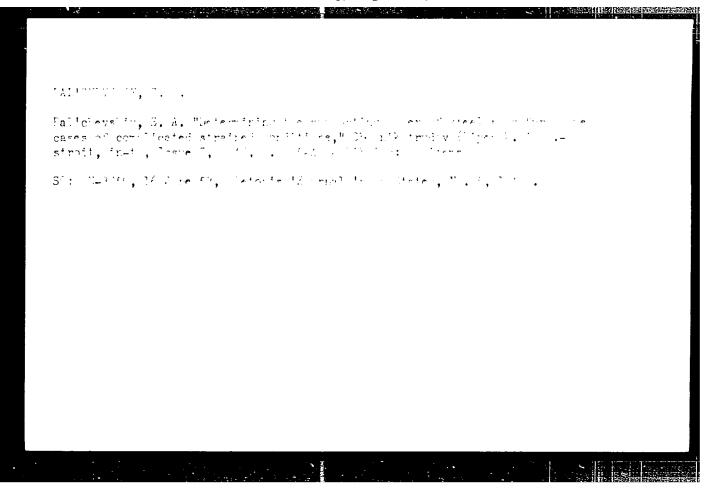
ABSTRACT: A method for designing minimum-weight circular cylindrical shells subjected to axial compression is proposed. The shell under discussion is stiffened by thinwalled stringers of open cross section, hinged along its edges, and the axial compression forces are uniformly distributed along them. The buckling stresses are determined in accordance with the linear theory of small deflections within the range of elastic strain. The maximum value of the ratio  $W=N_{\rm g}/N$ , where  $N_{\rm g}$  and N are the buckling forces for stiffened and plain shells (of the same cross-section area), respectively. The following modes of buckling are discussed: 1) the stringers undergo bending and twisting; 2) the stringers are only bent; and 3) the stringers are only twisted. This approach to designing stiffened shells and the formulas for their buckling-stress parameters are taken from I. Ya. Amiro's article (Prykladnaya mekhanika,

Card

RAYEVSKIY, G.V., kand.tekhn.nauk; BILETSKIY, S.M., insh.; PAL'CHEVSKIY, A.S., inzh.

> Factory manufacture of outsize cement kiln bodies. Mont.i spets. (MIRA 15:12) rab.v stroi 24 no.12:2-6 D 162.

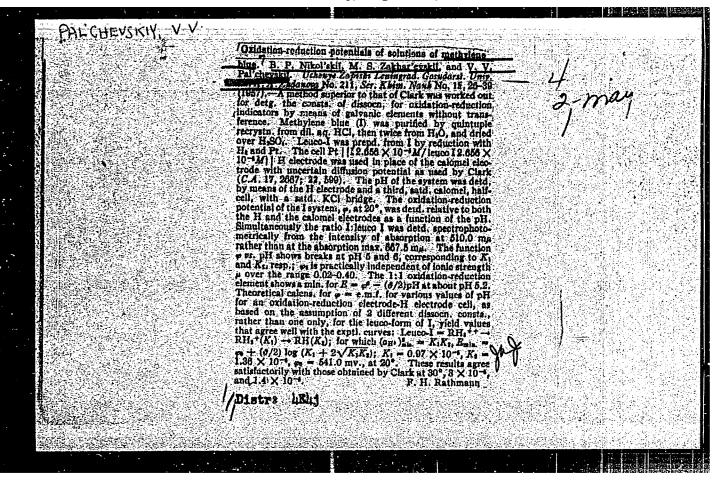
1. Institut elektrosvarki imeni Ye.O. Patona. (Cement kilns)

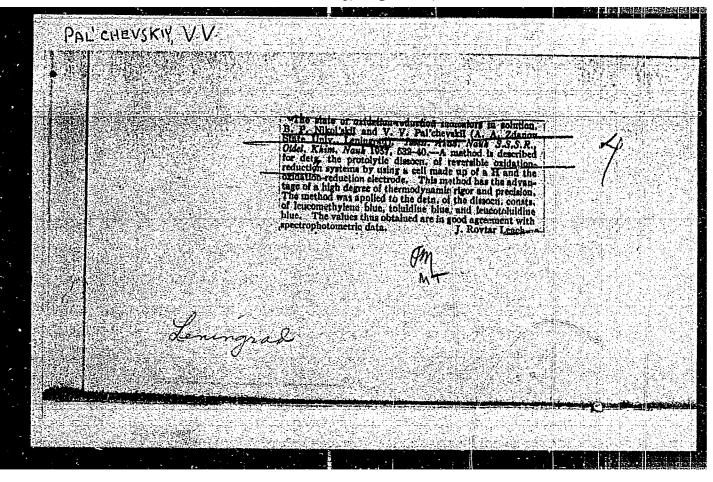


PAL CHEVSKIY, V. V.

"Potentiometric and spectrophotometric investigations of reversible organic oxidation-reduction systems." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Leningrad, 1956. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Knizhnaya letopis', No. 16, 1956





NIKOL'SKIY, B.P.; PAL'CHEVSKIY V.V. (Leningrad)

Spectrophotometric determination of dissociation constants of leucomethylene blue and leucotoluidine blue [with summary in English].

Zhur. fiz. khiz. 3 no.9:1506-1516 31 '58. (MIRA 11:9)

(Methylene blue-Spectra)

(Toliudine blue-Spectra)

AUTHORS:

Nikol'skiy, B. P., Pal'chevskiy, V. V. 76-32-6-15/46

TITLE:

A Potentiometric Method of Investigating Reversible Organic Redox Systems (Potentsiometricheskiy metod issledovaniya organicheskikh obratimykh okislitel'no-vosstanovitel'nykh sistem)

PERIODICAL:

Zhurnal fizichiskoy khimii, 1958, Vol. 32, Nr 6,

pp. 1280 - 1291 (USSR)

ABSTRACT:

A theory for the explanation of the influence of hydrogen ions on the oxidation potential of such systems was proposed already by Conant, Kohn, Fieser and Kurz (Ref 4). Clark gave the theory its final shape, his method, however, still shows serious short-comings as it was further developed with a primary interest in detail issues, for example in papers by Michaelis et al. (Refs 7-9). In the present investigation galvanic elements without transfer and a glass electrode instead of a hydrogen electrode are used. Proceeding from the protolytic theory of acids and bases by Brönsted an equation is derived which permits to represent all theoretically possible protolytic equilibria. In certain cases a simplification is possible. The function of the oxidation potential versus the pH of the system toluidine blue-leucoto—

Gard 1/3

Lowery of Fath allows

A Potentiometric Method of Investigating Reversible 32776-32-6-15/46 Organic Redox Systems

luidine blue is investigated. From the evidence of the graphical representations it may be seen, that this method furnishes more accurate data of the dissociation constant than that by Clark, the errors being smaller. This method was verified experimentally with the systems methylene blue-leucomethylene blue and toluidine blue-leucotoluidine blue. The experimental technique and a schematic figure of the experimental equipment are described. The results showed a good agreement with the mentioned equation. The value of the dissociation constant as obtained by Woislawski (Ref 12) also coincides with that obtained by the authors. Taking the system thionine-leucothionine as an example it is proved that a more precise determination of the constant of protolytic dissociation is possible by the method described. The difference between theory and experiment in the alkaline range is explained by experimental errors, which in this case are exceptionally high. There are 5 figures, 3 tables, and 12 references, 3 of which are Soviet.

Card 2/3

AUTHORS: Nikol'skiy, B. F., Pol'chevokiy, V. V. FOY, 76-37-7-10, 45

TITLE: The Spectrophotometric Determination of the Tipscoi tion

Constant of Leucomethylone Blue and Loucotoldiding Plue (Spektrofotometricheskoye opredetenije kom tent dienotsistrii

leykometilenovogo sinego i leykotoluidino/ogo sinego)

Zhurnal fizicheskog khimii, 1998, Vol. J., Vo. 7, pp. 1907-1916 PERIODICAL:

(USSR)

ABSTRACT: The two above-mentioned compounds had slreedy lean investi-

gated potentiometrically in an earlier paper. In the propent paper the electron absorption spectra or lineatigate; since the dissociation takes place in two stages, with REF and RH, being formed besides H ions, and the protoclytic dissociation constants of the two reactions are very close to each other the authors employed the method by Thammer and Voigt (Ref 4). The measurements were carried out by means of a spectrophotometer 3F-4 taking into account a number of conditions; thus, for instance, the measurements were carried out within the maximum of the absorption through 1 mu.

In order to take into account the high sensitivity to oxidation a special apparatus was constructed, a diagram and de-

Card 1/4

The Spectrophotometric Determination of the Dissociation Constant of Leucomethylene Blue and Leucotoluidine Blue

scription of which are given. The determinatios were carried out in three stages; in the mentioned apparatus the oxidized form was reduced at a certain pH value by hydrogen besides platinum and then was put into the bulb; afterwards it was spectrophotometered and finally the real concentration of the leuco-form was determined by an oxidation with hydrogen peroxide. The measurements were carried out at 20  $\pm$  2  $^{\circ}$ C. Some data are already existing on the absorption apectrum of leucomethylene blue, viz., from the papers by Holst (Ref 5), Vles (Refs 6, 7), and A. T. Vartanyan (Refs 8, 9), whereas no data are known on that of leucotoluidine blue. The determinations carried out showed that at different pH values in the case of leucomethylene blue three products of the equilibrium of the leucoform are present, in the acid part the  $\mathrm{RH}^{2+}$ products and in the alkali part the RM form. Three absorption spectra are given with the third diagram corre conding to pH = 5,28, at which the concentration of the MH product is close to the maximum value. Within the shortwave range an increase of the absorption can be found which is especially

Card 2/4

SOV/76-32-7-10,45 The Spectrophotometric Determination of the Dissociation Constant of Leucomethylene Blue and Leucotoluidine Blue

strong in the case of the RH form. The absorption spectrum of leucotoluidine does in qualitative respects not differ from that of leucomethylene blue and the maximum of the basic absorption band also regularly decreases with the increase of the pH, and is dislocated towards greater wave lengths, it finally increases again and returns to the previous position at 356 mm. The similarity in the reaction of the two leuco compounts is explained by a mutual compensation of the influence of the protons on the electron shell of the leuco compound. The experimental data of the determination of the optical density at various proint to the assumption that in the case of low pH values there exists only the leuco product  $\mathbb{R}H_2^{2+}$  and thus the optical density does not depend on the pH. With the increase of the pH value the RH2 product with a smaller absorption coefficient is formed by the dissociation, whereby the optical density decreases with the increase of the pH, and then increases again in the further dissociation and formation of the RH product which has a greater absorption coefficient. The proteolytic dissociation

Card 3/4

The Spectro hotometric Determination of the Dissociation Constant of Leucomethylene Blue and Leucotoluidine Blue

constants as well as the molecular absorption coefficients were calculated from the values of the optical densities and the activities of the hydrogen ions. The general optical densities of the two dyes were produced by the additivity principle. Finally there is an annex which shows the calculation of the dissociation constant from the optical densities for bi-basic acids proceeding from the suggestion made by Thamer and Voigt (Ref 4). There are 8 figures, 2 tables, and 9 references, 4 of which are Soviet.

SUBMITTED:

February 22, 1957

1. Toluidines—Spectra 2. Cyclohexanones—Spectra 3. Toluidines—Properties 4. Cyclohexanones—Properties 5. Spectrophotometers—Performance

Card 4/4

AUTHO'S:

Nikol'skiy, B. P., Pal'snevskiy, V. V. SIV, 76-32-, -27 19

TITLE:

Absorption Spectra of Methylene and Toluidine Blues (Spektry pogloshcheniya metilenovogo sinego i toluidinovogo sinego)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 9,

pp 2123 - 2128 (USSE)

ABSTRACT:

The absorption spectra of the dyes in aqueous solution of  $20 \pm 2^{\circ}$  C were measured with the spectrophotometer C  $\Phi$ -4. The measurings were done with special accuracy in the neighbourhood of the maxima (accuracy  $\pm$  0,3 - 0,4%). The spectra are plotted and are described in the text (methylene blue, pH =1,93; c= 1,0.10<sup>-5</sup> M in figure 1; toluidine blue, pH= 2,94; c= 8,26.10<sup>-6</sup> M in figure 2). The maximum within visible range is displaced to longer wave-lengths with growing ion-strength and at constant pH (Figure 2). The molar absorption coefficients of the two main maxima are reproduced in table 3. The optical density is in linear proportion to the ion-strength of the solution (Fig 3). As characteristic quantity the authors

Card 1/2

propose the molar coefficient at ion-strength zero

Absorption Spectra of Methylene and Toluidine Blues

SOV/76-32-9-27,46

(infinite dilution). It amounts to 71 000 for methylene blue, as proved by extrapolation in figure 3. There are 3 figures, 3 tables, and 24 references, 6 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED:

April 12, 1957

Card 2/2

PALICHEVSKIY, V.V.; ZAKHAR'YEVSKIY, M.S.; MALININA, Ye.A.

Thermodynamic characterization of the processes of protolytic dissociation of bensoic and p-hydrosybensoic acid. Vest. IGU 15 no.16:95-101 (MIRA 13:8)

(Benzoic acid)

(Hydrogen ion concentration)

PAL'CHEVSKIY, V.V.; ARSENKOV, R.T.

Spectrophotometric determination of the dissociation constants of a dibasic acid. Vest.IGU 15 no.10:98-103 '60.

(MIRA 13:5)

(Acids-Basicity) (Benzoic acid-Spectra)

NIKOL'SKIY, B.P.; PAL'CHEVSKIY, V.V.; GORDUNOVA, R.G.

Study of the formation of acetate complexes in a ferric-ferrous system by means of the oxidation potential. Zhur. neorg.

khim. 6 no.3:606-612 Mr '61. (MIRA 14:3)

(Complex compounds)

(Iron compounds)

PAL'CHEVSKIY, V.V.; ZAKHAR'YEVSKIY, M.S.; KAL'VARSKAYA, T.M.

Methylorange absorption spectra in concentrated salt solutions.

Vest. IGU 17 no.16:125-130 '62. (MIRA 15:9)

(Methyl orange—Spectra)

FAL'CHEV.KIY, V.V.. SARHAR YEVEN F.R. M.S.; KAR' MARCHAYA, T.M.

Dissociation constant of methy. F.R. Vest. LGU 13 mo.LC:

76-100 '83.

(Mira 18:3)

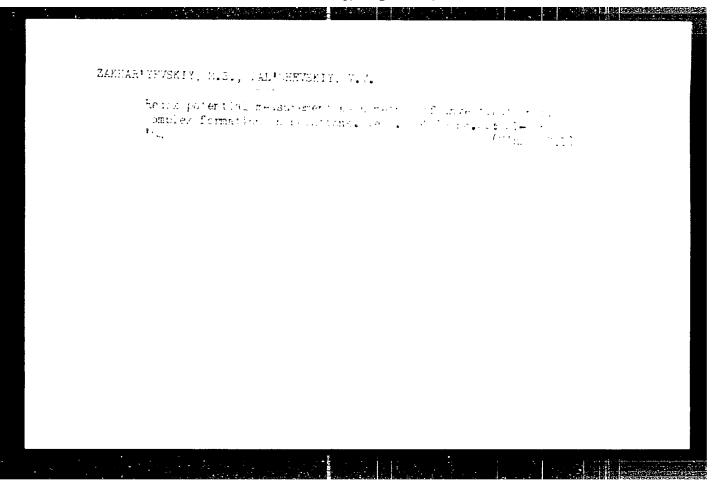
(Methyl orange) (Dissociation)

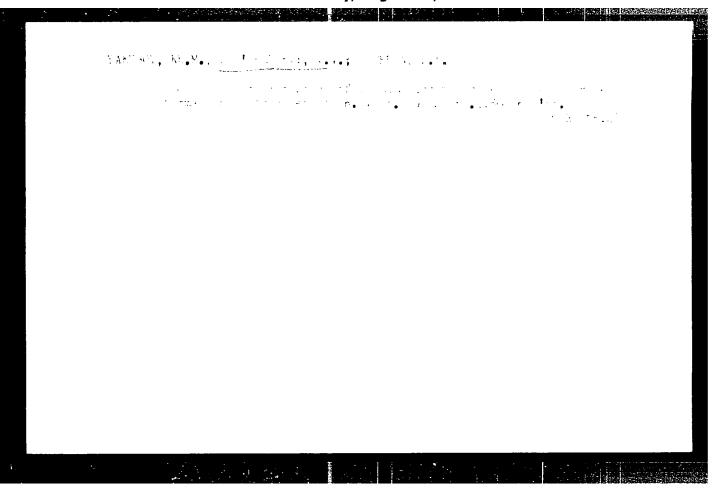
PAL'CHEVSKIY, V.V.; SMOLYAKOV, B.S.

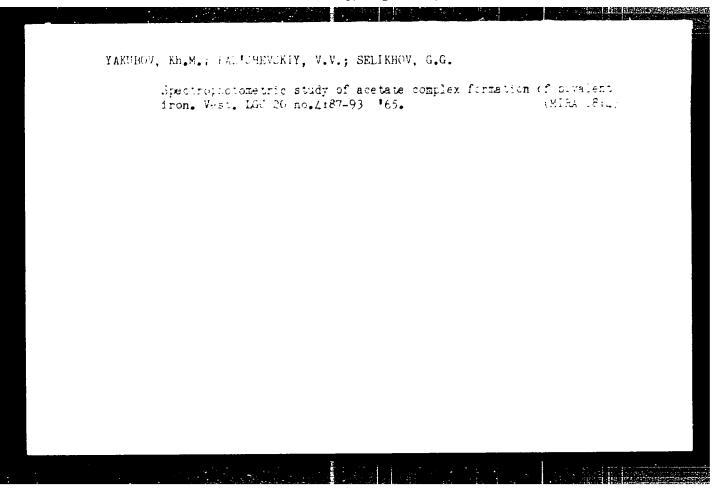
Change of electronic absorption spectra under the effect of some indifferent substances added. Fart 1: Spectra of solvated sations. Vest. LGU. 18 no.16:110-114 '63. (MIRA 16:11)

PALICHEVSKIY, V.V.; SMOLYAKOV, B.S.

Change in the electron absorption spectrum of the 2-hydroxy1.4-naphthoquinone due to the addition of indifferent
substances to the solution. Opt. i spektr. 17 no.4:515521 0 '64. (MIRA 17:12)







FAL CHEVERLY, Ye.I.; CHALYSHAK, A.I.; DOTSENKO, N.S.; RUDNI ISKATA, A.Yu.

Prognostic importance of historical examinations in carrier of the breast. Vop. onk. 1. rc. ptpl/-33 165.

(MIKA 18:8)

i. Iz kafedry pathlogicheskoj anatomii (bav. - prof. Ye.I.Parlohevskiy i kafedry obtochev khirurgii (zav. - prof. A.I.Gnatyshak) Livovskogo gosufarstvennog peditsinskogo instillta (rektor - prof. L.N. Kuzmenst).