YERKHOV, M. I. (Moskva)

Bearing capacity of overhead thin-walled pipelines. Stroi. mekh.
i rasch. soor. 2 no.6:19-23 '60. (NIRA 13:12)
(Pipelines)

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5/179/60/000/006/026/036 E081/E135

AUTHOR:

Yerkhov, M.I., (Moscow)

TITLE:

Plastic State of Shells, Plates and Bars of an

Ideally Plastic Material

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Mekhanika i mashinostroyeniye, 1960, No. 6,

pp. 151-154

The paper is a continuation of previous work (Ref.2). TEXT: An approximate relation is derived between internal forces and deformations in the middle surface of an ideally plastic shell. This leads to relations between forces and moments in the plastic phase which are convenient for calculation. The results are extended to ideally plastic plates and bars; in addition the approximate plasticity conditions of one half of the section are used as a criterion for the bearing capacity of the construction. The results are also extended to structures with two-layered constructional anisotropic section. The Kirchhof-Love postulates are adopted, and the notation is the same as that of A.A. Il'yushin (Ref.1), unless otherwise stated. The material is Card 1/8

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Plastic State of Shells, Plates and Bars of an Ideally Plastic Material

assumed ideally plastic and incompressible. The quantities ei, z', z" are defined in Fig.l; quantities with a single prime and a double prime refer respectively to the external and internal halves of the shell; the thickness of the shell is 2h. The internal forces are given by:

$$T_{k} = \frac{4}{3} \left(\varepsilon_{k} + \frac{1}{2} \varepsilon_{l} \right) \left(\frac{1}{e_{l}'} + \frac{1}{e_{l}''} \right) \sigma_{a} h + \frac{4}{3} \left(\varkappa_{k} + \frac{1}{2} \varkappa_{l} \right) \left(\frac{z_{l}'}{e_{l}'} - \frac{z_{l}''}{e_{l}''} \right) \sigma_{c} h$$

$$M_{k} = \frac{2}{3} \left(\varepsilon_{k} + \frac{1}{2} \varepsilon_{l} \right) \left(\frac{1}{e_{l}'} - \frac{1}{e_{l}''} \right) \sigma_{a} h^{2} + \frac{2}{3} \left(\varkappa_{k} + \frac{1}{2} \varkappa_{l} \right) \left(\frac{z_{l}'}{e_{l}'} + \frac{z_{l}''}{e_{l}''} \right) \sigma_{c} h^{3} \qquad (2.1)$$

$$T_{12} = \frac{2}{3} \varepsilon_{12} \left(\frac{1}{e_{l}'} + \frac{1}{e_{l}''} \right) \sigma_{c} h + \frac{2}{3} \varkappa_{12} \left(\frac{z_{l}'}{e_{l}'} - \frac{z_{l}''}{e_{l}''} \right) \sigma_{c} h$$

$$M_{13} = \frac{1}{3} \varepsilon_{13} \left(\frac{1}{e_{l}'} - \frac{1}{e_{l}''} \right) \sigma_{c} h^{2} + \frac{1}{3} \varkappa_{12} \left(\frac{z_{l}'}{e_{l}'} + \frac{z_{l}''}{e_{l}''} \right) \sigma_{c} h^{2} \quad (k = 1, 2, l = 2, 1)$$

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Plastic State of Shells, Plates and Bars of an Ideally Plastic Material .

Denoting the stress components by σ_1 , σ_2 , τ_{12} , written in the form: Eq. (2.1) can be

$$T_k = (\sigma_k' + \sigma_k'')h;$$
 $T_{12} = (\tau_{12}' + \tau_{12}'')h$

$$(k = 1, 2)$$
 (2.2)

$$M_{\rm k} = (\sigma_{\rm k}' - \sigma_{\rm k}'')0.5 \, h^2, \quad M_{12} = (\tau_{12}' - \tau_{12}'')0.5 \, h^2$$

or, introducing for the influence coefficients of the forces and moments the notation:

$$t_{k}^{\prime (7)} = \frac{4}{3} \frac{(\epsilon_{k} + 0.5\epsilon_{l})}{\epsilon_{l}^{\prime (7)}}, \qquad t_{12}^{\prime (7)} = \frac{2}{3} \frac{\epsilon_{12}}{\epsilon_{l}^{\prime (7)}}$$

$$m_{k'}(') = \frac{4}{3} \frac{(\aleph_{k} + 0.5\aleph_{l})}{e_{l}(')} z_{l}('), \qquad m_{14}(') = \frac{2}{3} \frac{\aleph_{14}z_{1}(')}{e_{l}(')}$$

$$(k=1, 2, l=2, 1)$$

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Plastic State of She Material	lls, Plate	s and Bars o	f an Ideally P	lastic ?	
the stresses can be	expressed	* *			√ 40
$\sigma_{\mathbf{k}}' = (\mathbf{t_{\mathbf{k}}'} +$	$m_{\mathbf{k}}$ ') $\sigma_{\mathbf{s}}$,		12' + m ₁₂ ') σ		Λ
$\sigma_{\mathbf{k}}^{\mathbf{n}} = (\mathbf{t}_{\mathbf{k}}^{\mathbf{n}} -$	m _k ") σ _s ,		$m_{12}^{12} - m_{12}^{12}) \sigma$		
	k = 1, 2	.	12 -12 ,		45
Finally, the notation					
T _k	$= t_{\nu} = \frac{1}{2} \left(t_{\nu}' + \frac{1}{2} \right) $	$t_{k''})+\frac{1}{2}\left(m_{k'}-m_{k}\right)$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		50
	,	$(12") + \frac{1}{2} (m_{12}" - m_{12}")$			
		$-t_{k}^{a})+\frac{1}{2}(m_{k}^{\prime}+m_{k}^{\prime})$	简素: 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			野人名英尔勒 经产品 医皮肤		55
$\overline{\sigma_{s}h^{\dagger}}$	•	$(115^\circ) + \frac{1}{2} (m115' + m115)$			
Card 4/8	(k ===	1, 6)			
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Plastic State of Shells, Plates and Bars of an Ideally Plastic Material

leads to

$$\sigma_{\mathbf{k}'} = (\mathbf{t}_{\mathbf{k}} + \mathbf{m}_{\mathbf{k}}) \ \sigma_{\mathbf{s}}, \ \tau_{12'} = (\mathbf{t}_{12} + \mathbf{m}_{12}) \ \sigma_{\mathbf{s}}$$

$$(\mathbf{k} = 1, 2) \qquad (2.6)$$

$$\sigma_{\mathbf{k}''} = (\mathbf{t}_{\mathbf{k}} - \mathbf{m}_{\mathbf{k}}) \ \sigma_{\mathbf{s}}, \ \tau_{12''} = (\mathbf{t}_{12} - \mathbf{m}_{12}) \ \sigma_{\mathbf{s}}.$$

The conditions of constancy of ei within the limits of each half of the section mean that physically the continuous section can be replaced by a two-layered section with zero shear stress between the layers. For the so-called "ideal section" (Fig.2) all the preceding results are accurate; for the two-layered constructionally anisotropic section they possess negligible errors. Introducing the Mises plasticity conditions leads to:

$$Q_t \pm 2 Q_{tm} + Q_m = 1$$
 (3.1)

in which Q_t , Q_m and Q_{tm} are the quadratic and bilinear forms of t and m (Ref.1). The pair of planes (3.1) is appreciably Card 5/8

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Plastic State of Shells, Plates and Bars of an Ideally Plastic Material

deflected for large values of Q_{tm} from the accurate surface described by A.A. Il'yushin (Ref.1), or from the pair of planes which approximate to it (Fig.3):

 $Q_t + Q_m + \frac{1}{\sqrt{3}} \quad Q_{tm} = 1$

For the problem with known disposition of principal deformation axes, Eq.(2.6) and the Tresca Saint-Venant plasticity conditions yield: $(t_1 \pm m_1) - (t_2 \pm m_2) | \leq 1, \quad |(t_1 \pm m_1)| \leq 1,$

$$|(t_2 \pm m_2)| \leq 1$$
 (3.3)

The specification of the flow surfaces is discussed, using:

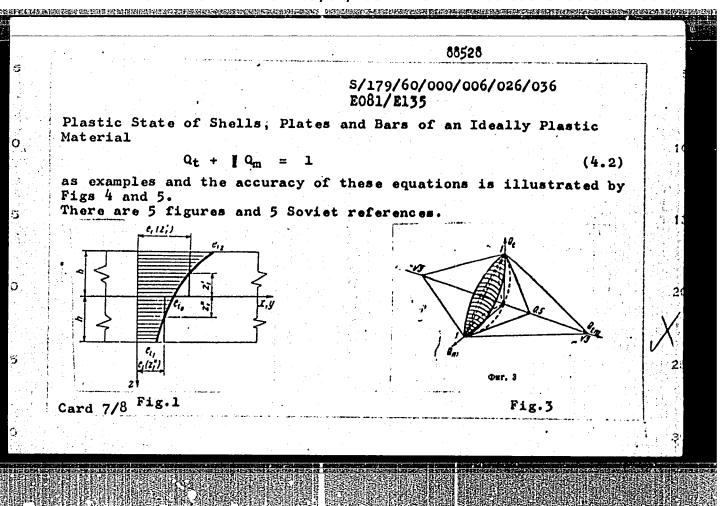
$$Q_t \pm 2 Q_{tm} + Q_m = k, \qquad 1 \leqslant k \leqslant \frac{(7 + 4\sqrt{3})}{9}$$
 (4.1)

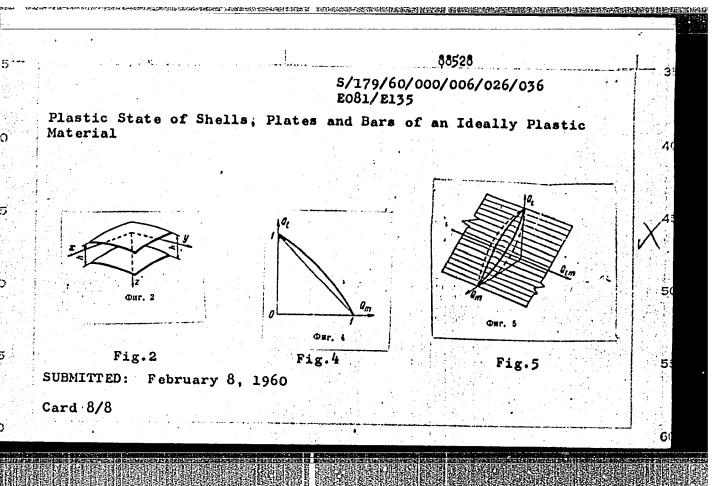
and Card 6/8



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YERKHOV, M. I.

Cand Tech Sci- (diss) "Finite equilibrium of ideally plastic spheres, plates, and rods under conditions of calculated model cross-section." Moscow, 1961. 14 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev); 180 copies; price not given; (KL, 6-61 sup, 217)

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S/124/62/000/002/011/014 D234/D302

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AUTHOR:

Yerkhov, M.I.

TITLE:

Symmetrical deformation of a cylindrical shell beyond the

limit of elasticity

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 2, 1962, 27, abstract 2V242 (Tr. Tsentr.n.-i. in-ta stroit. konstruktsiy. Akad.

str-va i arkhitekt. SSSR, no. 4, 1961, 176-198)

TEXT: It is assumed that in plastic yield of the shell the external and internal layers, divided by the middle surface, are uniformly stressed. This assumption, combined with the yield condition of Tresca, leads to a piecewise linear finite relation Eq.(米) $\max \{ |(t_1 \pm m_1) - (t_2 \pm m_2)|, |t_1 \pm m_1|, |t_2 \pm m_2| \} = 1$ where t and m are dimensionless internal forces and moments. On the

basis of the relation (*) the author studies the limit state of a cylindrical shell under the action of a uniformly distributed load, a

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S/124/62/000/002/011/014

Symmetrical deformation of a ... D234/D302

concentrated ring pressure, axial force and edge loading. Abstracter's note: Complete translation.

CHICHASOV, V.Ya., kand. tekhn. nauk; YERKHOV, N.S., inzh.

Absorption of water by the soil during continuous sprinkling. Gidr. i mel. 17 no.7:8-15 Jl *65. (MIRA 18:12)

YUSOV, B.V., Anzh.; YERKHOV, V.V., inzh.

Vertically closed conveyer. Mekh.i avtom.proizv. 15 no.6:48-49
Je '61. (Conveying machinery)

YETHOVA, V.

36453. YERKHOVA, V. KOVARSKIY, M., TSITOVSKAYA, S., KOROLEVICH, M. Kariyes I Beremennost'. - Avt: M. Kovarskiy, S. Tsitovskaya, M. Korolevich I V. Yerkhova. Stomatologiya, 1949, No. 4, S. 25-28.

SO: Letopis' Zhurnal'nykh Statey, Vol. 49, Moskva 1949

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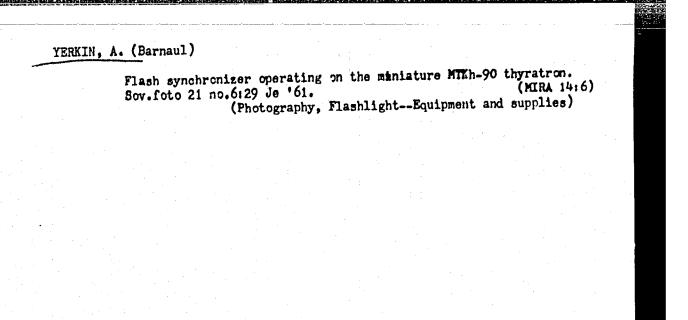
YAKUBOVSKIY, A.M., mashinist-instruktor; FROLENKO, M.P., mashinist-instruktor; YAROSHEVICH, V.S., mashinist; YERKIHSAYEV, Ye., mashinist; PABANAZAROV, A.M., mashinist; FEDOSOV, D. Ye.; SKORKIE, I.S.

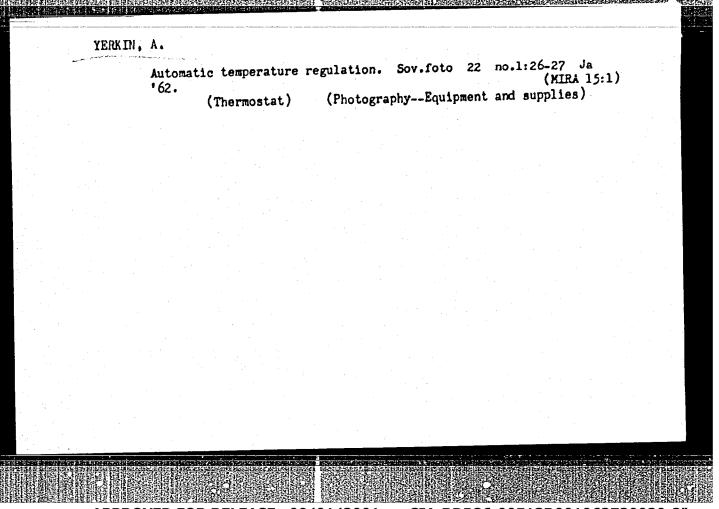
Useful book "Reference bood for a diesel locomotive engineering by V.M. Terekhov, I.I. Murshin. Reviewed by A.M. IAkubovskii and others. Elek.i tepl.tiaga 4 no.2:47-48 F '60. (NIRA 13:6)

1. Master zagotovitel'nogo tsekha, depo Chu, Kazakhskaya doroga (for Fedosov). 2. Master tsekha bol'skogo periodicheskogo remonta, depo Chu, Kazakhskaya doroga (for Skorkin).

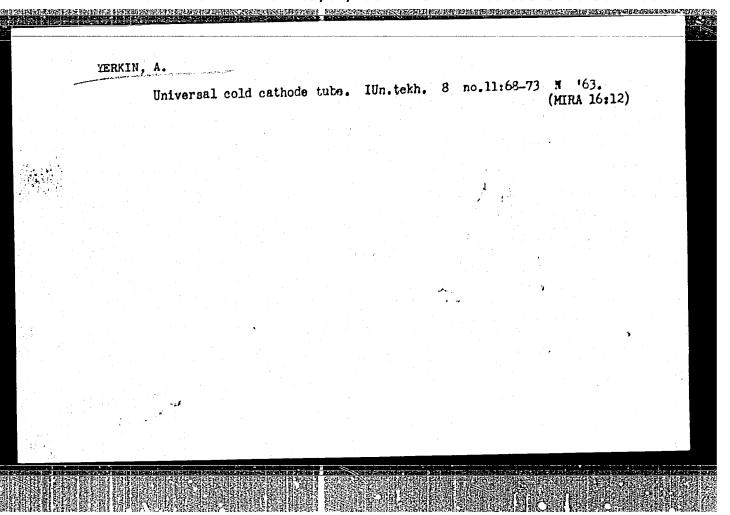
(Diesel locomotives) (Terekhov, V.M.) (Murshin, I.I.)

YERKIMBAYEVA, A. Effect of the length of the day on the differentiation of the vegetative cone of spring wheat in Kirghizistan. Izv. All Kir. SSR. Ser. biol. nauk 3 no.3:107-115 '61. (MIRA 14:12) (KIRGHIZISTAN—WHEAT) (PHOTOPERIODISM)





Photoelectric relay using cold cathode thyratrons. Radio no.10:29 0 '63. (MIRA 16:11)



YERKIN, A.A.

Mining with a sawing machine under the conditions of Mine No.10/16. Ugol' 36 no.11:37-38 N '61. (MIRA 14:11)

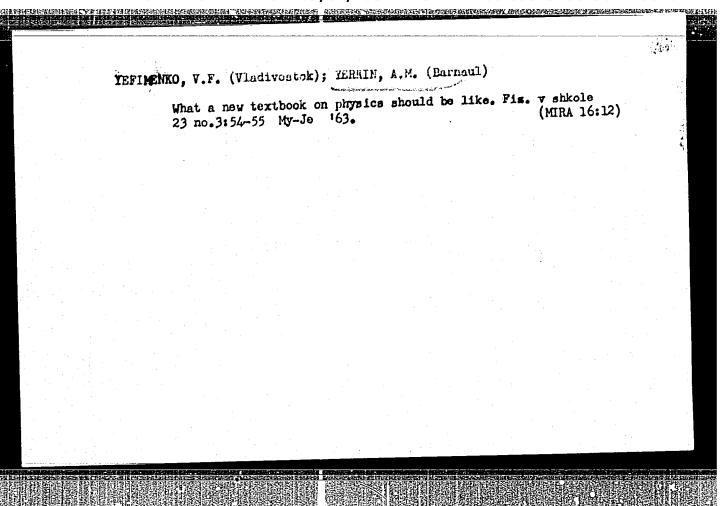
1. Nachal'nik shakhty No.10/16 tresta "Suchamugol'".
(Suchansk Basin--Coal mines and mining)

YERKIN, A.A., inzh.

Results of mining the "Barsuk" seam subject to bumps at the No.10 Trust of the "Suchanugol" Mine. [Trudy] VNIMI no.49:218-222 (MIRA 17:4)

1. Shakhta No.10 tresta Suchanugol'.

	YERKIN,		A. A.	!					
•	To the second second	Check of	oold-cathod	tubes.	Ism. tekh.	np.6242-4	3 Je ! (MIRA]	63 . 618)	
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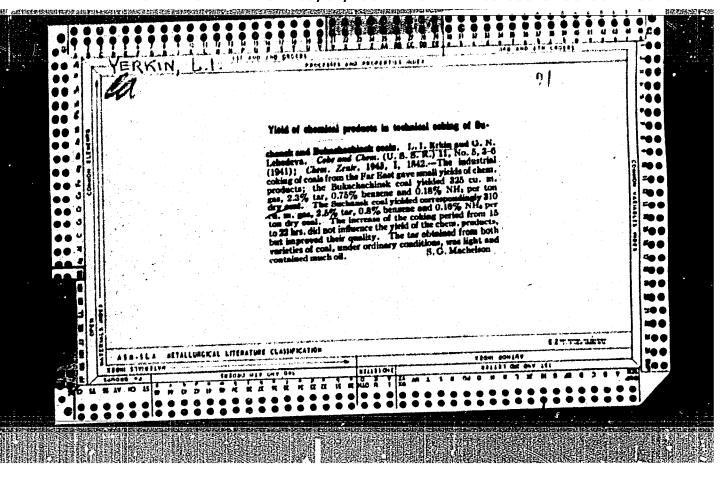
YERKIN, I.A.

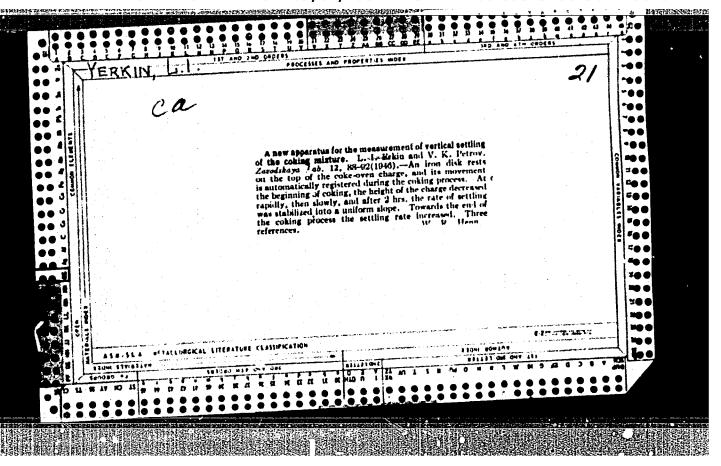
Prophylaxis for primary and secondary bleeding due to different methods of adenomectomy of the prostate. Trudy SMI 16:164-167 163.

(MIRA 18:1)

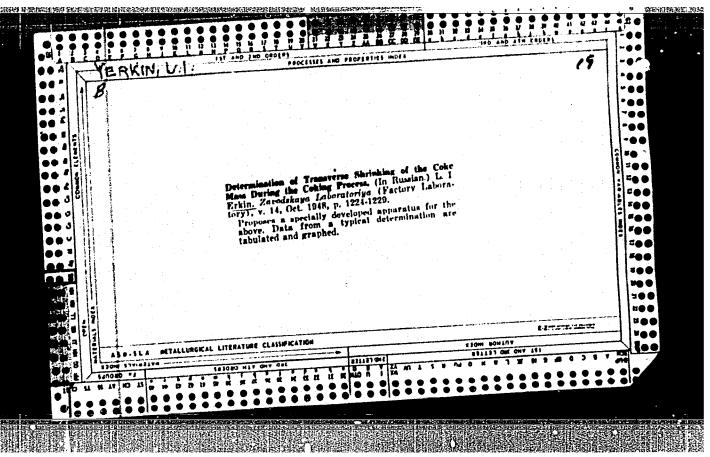
Late complications following a suprapubic transvesical and a retropubic extravesical adenomectomy of the prostate. Ibid.:168-172

1. Iz kafedry obshchev khirurgii (zav. - prof. G.G.Dubinkin) Smolen-skogo gosudarstvennogo meditsinskogo instituta.





Determination of the volume change of cohing material at high temperatures. I., I. Falia and L. I. Gorboures. Carediaps Leaf. 14, 81717(1979).—Vol. changes of metal. Carediaps Leaf. 14, 81717(1979).—Vol. changes of metal. Carediaps Leaf. 14, 81717(1979).—Vol. changes of metal. Cohing and on cylinders of semicohe of known length (12 to 18 mm.) placed in a quart to be and surrounded by a tubular furnace. Devices for measuring length of the cylinder and temp. were included were vol. which was called a "of librar contraction." The semical was prept. Irom Rusarchia, coals at a limiting temp. of fails". Librar contraction of semicohe tested in the contraction from Canacht. Coals at a limiting temp. of fails". Librar contraction of semicohe tested in the contraction from Canacht. On the 1975, be benefing rate of the contraction in fails and the development of the contraction increased to a max. at 20 metal in all cases at about 200°. With barber to fine temp, the rate of contraction increased to a max. at 20 metal in all cases at about 200°. With barber to fine temp, the rate of contraction increased to a max. at 20 metal in the contraction of the contraction of the contraction increased to a max. at 20 metal in the contraction of the



68-58-2-4/21

AUTHORS: Yerkin, L.I., Lobanova, L.I. and Bernatskaya, M.A.

TITIE: Coking of Eastern Coals with the Application of Stamp Charging (Koksovaniye vostochnykh ugley s primeneniyem

trambovaniya)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, pp 23-30 (USSR)

Studies of coking Eastern coals using stamp charging ABSTRACT: were carried out on an experimental oven, 400 mm wide and a capacity of 220-250 kg with stamp charging. The quality of coke was tested on a small drum and expressed in indices of the standard drum. Results of coking Bureinsk and Bazoysk gas coals - Table 1; tests of blends from Kuznets coals at the normal degree of crushing - Table 2, at various methods of crushing and various degrees of fineness of blends - Table 3; results of testing Karagandinsk coals - Table 4. Conclusions: Coking with stamp charging is advantageous only for certain coals and coal blends. Its application is most effective for blends containing considerable proportions of gas and weakly coking coals, which normally charged, produce The volatile content of blends suitable for stamp poor coke. charging can be increased to 30-31% and their coking ability lowered to 11-13 mm. For the successful application of stamp charging, a correct choice of the method and degree of Card1/2

Coking of Eastern Coals with the Application of Stamp Charging

crushing of coal blends is particularly important. The higher the coking ability of the blend and its volatile content, the higher should be its degree of fineness. The degree of compacting of the charge is related to its coking ability and degree of fineness. There are 4 tables and 1 figure.

ASSOCIATION: VUKLIN

AVAILABLE: Library of Congress

Card 2/2

1. Coal - Processing 2. Coke - Production

	FILES 2 DOOK EXPLOSIVED BON/2127	P Broisvoletvoj shomnik statoy (By-Product Coking Industry; Articles) Moscow, Metallungisdat, 1959. 240 p. 2,500 L.	M. of Publishing Bones: A. A. Boryaking Toch. Ed.:	book is intuched for emplosers and bombalentum in the hy-product neity and in sedectific resourm institutes. The book any also Findents in secondary and higher tentacted sabouls.	on on the by-product esting industry cholles! Industry (Cote and arring 1959-1953, The book discusses res for contag, technology of the	where were, guilty of eats and further calergement of the number liast octing products oftened. Ease articles are derived to a section for properting and beneficiariting coals, now methods for and to the mechanisation and methods in a stabulation of influential processes.	Symmet. B. 6., 7. M. Lasrvidy, and M. G. Paliforia. (TRAIT) The Basica Frishiple for Propartition of Ocale for Carles by Crubias	Provider, J. In. [Ombilate of Predanted, Sciences, Udits]. Bearing and re-	Descripting I. S. (VEINGloodschabskill), and A. L. Iurowatty (III AN ESSE), Constituted benefits at an object Coals	•	tov [61]srotoks]. Progress in Coke-	LIT PLANDER, A. B. (Unsatista of Pennateal Balmess, Ocephan 2533). Ingrove- ment, in the Operation and Ingrisming of the Life of Cole Orms	L. Polonis, and S. J. Churia. [Candidates of Utili]. Ingrovement of the Kesting and Technological as	Care Burken Couls with the two of Hearting (Tennes), coulse	and Automoticon in	A. Benner (Contan Maril	Paris, Forth Digmingtoning setablishing cheeting braining - Registered as setable of Digmington to 60-60 as Fraction of the Contracting the 60-60 as Fraction of	-	(United) Proposes in Developing a Larger Dunber of			No see of	<u></u>	
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SOV/68-58-8-23/28 Yerkin, L.I., Candidate of Technical Sciences AUTHOR:

Communication on the Standardisation of Methods of Testing TITLE:

the Quality of Coke (Soobshcheniye po standartizatsii

metodov ispytaniya kachestva koksa)

Koks i Khimiya, 1958, Nr 8, pp 58 - 60 (USSR) PERIODICAL:

ABSTRACT: This is a report on the meeting of the International

Organisation for Standardisation, which took place in

April, 1957, in Essen. There are 3 tables.

VUKhIN ASSOCIATION:

1. Coke--Test methods

Card 1/1

CIA-RDP86-00513R001962720020-2" APPROVED FOR RELEASE: 09/01/2001

sov/68-58-2-4/20

Yerkin, L.I., Petrov, V.K. and Bernatskaya, M.A.

Thermal Preparation of Coals for Coking (Termicheskaya AUTHORS: __ podgotovka ugley dlya koksovaniya) TITIE:

Koks i Khimiya, 1959, Nr 2, pp 13 - 16 (USSR) PERIODICAL:

The influence of pre-heating of coals and coal blends before charging to ovens on the quality of coke produced was investigated using a laboratory coking retort and ABSTRACT: pilot-plant oven (180 - 200 kg of coal per charge).

The laboratory results are assembled in Tables 1 and 2 and the pilot plant results in Table 3. It was found that: 1) pre-heating of coals before coking to 150 - 350 C under conditions excluding their oxidation

leads to a substantial increase in the structural strength of the coke (strength of a piece of coke free from

fissures). The relative increase in the structural strength of coke obtained by pre-heating is higher for coals of low caking ability; 2) for all coals there is an optimum pre-heating temperature which secures the production of coke of the highest structural strength.

The optimum pre-heating temperature for all the coals investigated lies within a narrow temperature range of

C; 3) the basic cause of the increase in the 150 - 250

Card1/2

Thermal Preparation of Coals for Coking

SOV/68-58-2-4/20

structural strength of coke on coking of pre-heated coal is assumed to be due to an increase in the bulk density of the coal charge. In view of the above, the pre-heating of coal before charging can be considered as one of the possible methods of increasing the bulk density of the coal charge. For coal blends similar in properties to industrial blends, the change in the coke strength with increasing pre-heating temperature follows the change which takes place in the structural strength of coke;

5) pre-heating of coal blends before their coking is accompanied by a substantial increase in the strength of coke. For the blends tested, the increase amounted to 12-30 kg and a decrease in the 10-0 mm fraction by 15-35 kg. There are 3 tables and 5 references, 2 of which are German and 3 Soviet.

ASSOCIATION: VUKhIN

Card 2/2

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MAKAROV, G.N.; KAZINIK, Ye.M.; POPCHENKO, R.A.; SEMENOV, A.S.; YERKIN, L.I.; RIVKIN, I.Yu.; PRIVALOV, V.Ye.; MUSTAFIN, F.A.; KUZNETSOV, P.V.; ZOROKHOVICH, G.Ya.

Coking of the coal charge in an oven with a rotating ring floor.

Koks i khim. no.11:34-41 '62. (MIRA 15:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I.
Mendeleyeva (for Makarov, Kazinik, Popohenko, Semenov).
2. Vostochnyy uglekhimicheskiy institut (for Yerkin, Ryvkin, Privalov). 3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (Mustafin, Kuznetsov, Zorokhovich).

(Coke)

YERKIN, L.I., kand.tekhn.nauk; Frinimala uchastiye KOMAROVSKAYA, G.M.

Coking doal from Eastern regions in extra narrow coke oven chambers.

(MIRA 16:3)

 Vostochnyy uglekhimicheskiy institut. (Kuznetsk Basin—Coal)

(Coke ovens)

YERKIN. H.

Quality of SP-55 filter breathing apparatuses. Ugol' 34 no.1:51
Ja '59. (MIRA 12:1)

1. Upravleniye Rostovskege okruga Gosgortekhnadzora RSFSR. (Respirators)

GEN PATRICIS CON PROPERTIES DE L'ANDIEN DE L'ANDIE DE L'ANDIE DE L'ANDIE DE L'ANDIE DE L'ANDIE DE L'ANDIE DE L

KOZLOV, P. (g. Rovno); SOKOLOV, A.; CHERKASOV, N.; YERKIH, M.; SHCHEGLOV, A., instruktor; BONDAR!, N.; MORSHCHI! IN, S., inzh. (Kazani); SOKOLOV, S.; BARINOVA, Z., inzh.

> Readers relate, advise and criticize. Sov. profsoiuzy 18 no.18:32-33 S 162. (MIRA 15:9)

1. Neshtatnyy korrespondent zhurnala *Sovetskiye profsoyuzy" (for Kozlov). 2. Rukovoditel! lektorskoy gruppy oblastnogog soveta professional nykh soyuzov, (for Sokolov). 3. Rabotnik ob"yedineniya "Sel'khoztekhnika", Tlumachskiy rayon, Stanislavskoy obl. (for Cherkasov). 4. Zaveduyushchiy Chelyabinskoy yuridicheskoy konsul'tatsiyey professional'nykh soyuzov (fo. Yerkin). 5. Rayonnyy komitet professionalinogo soyuza zheleznodorozhnikov Karagandinskogo otdeleniya Kazakhskoy zheleznoy dorogi (for Shcheglov). 6. Sekretar' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya tsentral nykh remontnykh masterskikh tresta "Ukrgazneftestroy", Kiyev (for Bondar'). 7. Zaveduyushchiy neshtatnym otdelom truda i zarabotnov platy pri Kalininskom oblastnom komitete professionalenogo soyuza rabochikh stroitelistva i promyshlennosti stroitelinykh materialov (for Sokolov). 8. Krasavinskiy l'nokombinat, g. Krasavino, Vologodskoy obl. (for Barinova). (Labor laws and legislation) (Trade unions)

(Russia-industries)

Tin coal mines of China. Bezop, truda v prom. 3 no.1017-9
0 '59. (MIRA 13:2)

(China--Coal mines and mining)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962720020-2"

TERKIN, M.A., insh.; RABICHEV, A.I., insh.

New machine units for coal mining. Besop.truda v prom. 4 no.8:22 Ag 160. (MIRA 13:8)

1. Machal'nik upravleniya Rostovskogo okruga Gosgortskhnadsora RSFSE (for Yerkin). 2. Machal'nik tekhnicheskogo upravleniya kombinata Bostovugol' (for Rabichev). (Coal mining machinery)

YERKINA, N. C	
USSR/Biolog	y Parasitology
Card	1/1
Authors	; YErkina, N. G.
Title	Cycle of development of tremadoda Notocotylus Chionis, parasites of planktonic birds.
Periodical	1 Dokl. AN SSSR, 97, Ed. 3, 559 - 560, July 21, 1954
Abstract	Laboratory data on the life cycle of trematoda Notocotylus Chionis a planktonic bird parasite. Drawings.
Institution	n : Zooveterinary Institute, Semipalatinsk
Presented	by: Academician, K. I. Skryabin, May 3, 1954

Spectrographic determination of iron, aluminum, calcium, magnesium, copper, and nickel in metallic manganese of high purity. Fiz.sbor. no.4:490-491 '58. (MIRA 12:5)

1. Fiziko-tekhnicheskiy institut AN USSR, Khar'kov. (Manganese-Spectra)

18(3), 7(6)

AUTHORS:

Lifshits, Ye. V., Konovalov, V. G.,

SOY/32-24-12-24/45

Yerko, V. P.

TITLE:

Spectral Analysis of Binary Iron-Chromium Alloys (Spektral'nyy analiz binarnykh splavov zheleza s

khromom)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Hr 12,

pp 1483 - 1484 (USSR)

ABSTRACT:

A method is described for determining chromium in iron (0.1-30% Cr), and for determining iron in chromium (0.1 - 1% Fe). Unalloyed samples, thin metal films (to 20 μ), and dispersions of chromium in the surface of iron-chromium alloys (to a depth of 750 μ) were investigated. The metal films were obtained by evaporating the alloy on an aluminum support and in a high vacuum. The standard solutions were prepared by dissolving the material and were determined using the porous cup electrode method of Feldman (Fel'dman) (Ref 1). A Q-12 spectrograph

Card 1/2

and a IC-2 generator were used. The analysis of

Spectral Analysis of Binary Iron-Chromium Alloys

SOV/32-24-12-24/45

大学工程的《中华的新闻》。 第1875年 - 中华的新闻的《西班牙》的《西班牙》(1985年) - 中华的西班牙的《西班牙》(1985年) - 中华的西班牙的《西班牙》(1985年) - 中华的

the unalloyed samples was carried out in the usual way. The accuracy of the method is \pm 6%. Comparison of the analytical results with those obtained chemically (by N.V.Sivokon') shows a satisfactory agreement (Table). The analytical results on the dispersion of the chromium (Pigure) were used to calculate the diffusion coefficient for chromium in iron. The metal films on the aluminum support were investigated in a local analysis using a generator, and these results were found to agree with the analysis of the solutions. N.I.Bugayeva and L.N. Mosova participated in the experiments. There are 1 figure, 1 table and 1 reference.

ASSOCIATION:

Fiziko-tekhnicheskiy institut Akademii nauk USSR (Physical-Technical Institute, Academy of Sciences, UkrSSR)

Card 2/2

S/185/61/006/006/021/030 D299/D304

AUTHORS: Yerko, V.F., Lifshyts', Ye.V., Konovalov, V.H.,

Dubyns'kyy, I.H., and Buhayova, N.I.

TITLE: Spectral analysis of magnesium-beryllium alloys

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961,

837 - 842

TEXT: The present work was prompted by the need to develop magnesium-beryllium alloys for protective coatings of heat-transfer elements. Binary and mutlicomponent magnesium alloys were investigated, with beryllium (as basic addition), aluminum, calcium and zirconium. The admixtures were determined by the method of spectral analysis of solutions. As a control method, the spectrophotometric method was used for determining beryllium. Sodium and potassium were determined by the method of flame spectrophotometry and photoelectric recording of spectra. The beryllium concentration in binary alloys was determined by the three-specimen method. The multicomponent magnesium alloys were analyzed for Al, Be, Ca, Zr (basic adponent magnesium alloys were analyzed for Al, Be, Ca, Zr (basic ad-

Card 1/3

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S/185/61/006/006/021/030

Spectral analysis of magnesium- ...

ditions), and Fe, Cu and Ni (impurities). The calibration curves are shown in a figure. The results of spectral- and chemical analysis were in good agreement. As a direct method of analysis of the binary alloy, magnesium and beryllium were distilled simultaneously in a high vacuum. Such a method made it possible to prepare a series of sufficiently homogeneous samples with a beryllium concentration of 0.0003 to 6.0 %. From a table it is evident that the results of direct analysis of metallic specimens and of analysis of the solutions were in good agreement. The spectrophotometric method of determining the beryllium concentration in the alloy, involved the use of sulfosalycilic acid and of trilon $\beta(B)$ (the latter for the purpose of cancelling the effect of magnesium). The spectrophotometer $C \varphi$ -4 (SF-4) was used. The optical density was measured at a wavelength of $\lambda=317$ mm. The method permitted the determination of a beryllium concentration of 0.005 - 10 %. The data related to the flame spectrophotometric method used for detecting the presence of sodium potassium in the magnesium alloy, are listed in a table. There are 1 figure, 5 tables and 7 referencess 5 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication Card 2/3

Spectral analysis of magnesium- ...

S/185/61/006/006/021/030 D299/D304

reads as follows: H.V. Meek, C.V. Banks, Chemistry, 22, no. 12, 1512, 1950.

ASSOCIATION: Fizyko-tekhnichnyy instytut AS UkrRSR (Physicotechnical Institute of the AS UkrRSR, Kharkiv)

Card 3/3

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962720020-2"

34440 S/185/61/006/006/022/030 D299/D304

18.8100

AUTHORS:

Lifshyts', Ye.V., Yerko, V.F., Buhayova, N.I., and

Mosova, L.M.

TITLE:

Spectral analysis of certain pure metals

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961.

846 - 850

TEXT: Methods are described for spectral analysis of pure metals, used in the spectrum laboratory of the Physicotechnical Institute of the AS UkrRSR. The following metals were investigated with respect to 7 to 20 impurities: Manganese, chromium, beryllium, nickel, cobalt, molybdenum, zirconium, zinc and iron; silicon was also investigated. The impurity concentration ranged from 10-1 to 10-4 %. The analysis of pure metals is based on the method of powder-oxide analysis. In order to increase the sensitivity of analysis of the concentration, the following methods were used: Fractionation in a d.c.-arc, evaporation from the melt (the so-called globule arc), enrichment by means of impurity distillation, and chemical methods of

Card 1/3

APPROVED FOR RELEASE: 09/01/2001

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S/185/61/006/006/022/030 D299/D304

Spectral analysis of certain ...

concentration of impurities. First, the method of fractionation is considered. The specimen, placed in the graphite electrode, formed the anode of the arc, whereas the cathode was formed by a graphite rod. Preparation of the specimens, Conditions of the analysis and Sensitivity of determination of the concentration are given in a table. The sensitivity varied between 3 · 10⁻² to 1 · 10⁻⁴%. The method is accurate to within ± 10 - 20 %. The impurity concentration and the sensitivity can be considerably increased by using a distillation method, developed by S.L. Mandel'shtam et al., whereby the processes of extraction of impurities and of their spectral excitations were separated. The authors used this method for detecting the presence of readily volatile impurities in chromium. The vaporization temperature was 1500°C, the duration - 90 seconds. The sensitivity of detecting Pb, Bi, Sn, Cd and Sb, was 1 · 10⁻⁴ %. The globule -arc method yields high sensitivity; it is mainly used for analysis of metal oxides with moderate melting point and which have (in the melted state) high electrical conductivity. The authors analyzed (by this method) nickel, cobalt, and iron of high purity. The sensitivity of this method is by one order of magnitude higher than Card 2/3

S/185/61/006/006/022/030 D299/D304

Spectral analysis of certain ...

that of the fractionation method; the increase in sensitivity is particularly noticeable in the detection of readily volatile substances. The method of chemical enrichment of the specimens with subsequent spectral analysis of impurity concentration was used for beryllium, molybdenum and iron of high purity. The method involves the separation of the basic element by means of a selective reaction. The use of the spectro-chemical method makes it possible to considerably increase the sensitivity of analysis, which reaches 1 \cdot 10-6 % for certain impurities (with an error of \pm 20 %). There are 2 tables and 9 Soviet-bloc references.

ASSOCIATION: Fizyko-tekhnichnyy instytut AS UkrRSR (Physicotechnical Institute of the AS UkrRSR, Kharkiv)

Card 3/3

X

I. 090	14-67 FWT(m)/EWP(t)/ETIIJP(c) JD/JG/JH SOURCE CODE: UR/0126/66 /022/001/0112/0114
	HOR: Yerko, V. F.; Zelenskiy, V. F.; Krasnorutskiy, V. S.
	Physico-Technical Institute, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut AN
Ukr	
	E: Diffusion of beryllium in magnesium RCE: Fizika metallov i metallovedeniye, v. 22, no. 1, 1966, 112-114
	IC TAGS: metal diffusion, beryllium, magnesium, pressure effect
pour inter	TRACT: A Mg-Be alloy containing 0.2% Be was produced by simultaneous deep-vacuum oration and condensation of Mg and Be on a single substrate. Metallographically the comed was represented by a solid solution of Be in Mg which included tiny particles of the metallic compound MgBe. The resulting alloy was sintered under a pressure of 600 atm temperature equal to the temperature of subsequent diffusion annealing. To investigate the st of hydrostatic pressure on the diffusion of Be in Mg, two lots of specimens were pred. The first lot was diffusion-annealed at atmospheric pressure in a special steel shell
fille	l with MgO and the second lot was annealed at 600 atm. The distribution of Be in Mg was UDC: 539.292.539.219.3
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determined by means of local spectral analysis (Fig. 1) (for description of local spectral ana-

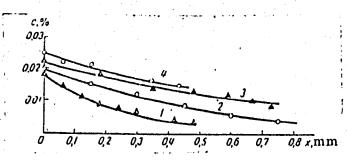


Fig. 1. Curves of the distribution of Be concentration in Mg at temperatures of:

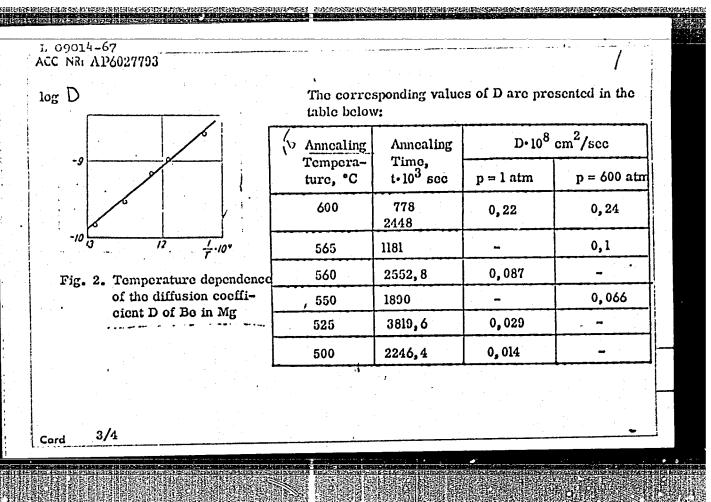
lysis cf. Yerko, V. F., Krasnorutskiy, V. S. Zavodskaya laboratoriya, 1966, 22, No 2, 161). The resulting findings on the solubility of Be in Mg as a function of temperature (Fig. 2) were used to derive the formula for the diffusion coefficient D of Be in Mg:

$$D = 8,06 \exp\left(-\frac{37490 \pm 2700}{RT}\right).$$

 \cdot_{cold} 2/4

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L 21727-66 EWT(m)/T/EWP(t) IJP(c) JD/JG/JH

ACC NR. AP6008062 (N) SOURCE CODE: UR/0032/66/032/002/0161/0164

AUTHOR: Yerko, V. F.; Krasnorutskiy, V. S.

ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut Akademii nauk UkrSSR)

TITLE: Use of localized spectral analysis for studying diffusion of beryllium into magnesium

SOURCE: Zavodskaya laboratoriya, v. 32, no. 2, 1966, 161-164

TOPIC TAGS: spectrum analysis, microchemical analysis, beryllium, magnesium, metal diffusion

ABSTRACT: The authors use the methods of localized spectral analysis (line source, laminar analysis) to determine the coefficients of diffusion of beryllium in magnesium in the 500-600°C range. The excitation source was a rectified hf discharge spark from a PS-39 generator. The spectra were taken on an ISP-28 quartz spectrograph. Optimum polarity conditions are achieved by using the specimen as the cathode in the line source method. The concentration sensitivity for determination of beryllium in magnesium under these conditions is 4·10⁻³% for a material consumption of 6·10⁻⁵ g. The line source results were checked by using the laminar analysis method with the specimen connected as the anode. This method also gives a sensitivity for beryllium

UDC: 543.42

Card 1/2

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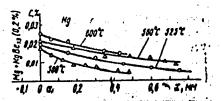
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0

determination of 4.10 38. The experimental data were used for plotting concentration curves for the distribution of beryllium in magnesium at diffusion annealing temperatures of 500, 525, 560 and 600°C. These diffusion curves were used for calculating the coefficients of diffusion of beryllium in magnesium, plotting the temperature relationship for the coefficients of diffusion, calculating the activation energy for diffusion process in magnesium-beryllium alleys and evaluating the solubility of beryllium in magnesium in the 500-600°C temperature range. A comparison of the numerical results for the coefficients of diffusion calculated by the line source method and by the laminar analysis method showed a divergence of less than 8-10%. Orig. art. has:

HE RESERVE TO THE PRODUCTION OF THE PRODUCT OF THE PROPERTY OF



Curves for diffusion distribution of beryllium concentration in magnesium for various annealing temperatures.

SUB CODE: 20/

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ORIG REF: 008/

OTH REF: 003

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962720020-2"

YERKOMAYSHVILI, A. K.

"The Vegetation of Certain Marshes and Salt Bogs Near Tbilisi." Cand Piol Sci, Tbilisi U, Tbilisi, 1954, (RZhBiol, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. No 598, 29 Jul 55

5 (3) AUTHORS: Nazarov, I. N., Cherkasova, Ye. M.,

SOV/62-59-9-14/40

Wen de Creative de Septembre de Creative d

Yerkomaishvili, G. S.

TITLE:

Synthetic Anesthetic Substances. Communication 28. Ester of the

Phenyl-alkyl-amino Ethanols

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 9, pp 1605 - 1611 (USSR)

ABSTRACT:

The synthesis of the substances mentioned in the title was carried out with a view to the joint action of cocaine and vesselconstricting agents. Following an idea of A. V. Vishnevskiy, the
addition of adrenalin to anesthetics was to be eliminated. Acyl
addition of phenyl-alkyl-amino ethanols are synthesized, and
derivatives of phenyl-alkyl-amino ethanols are synthesized, and
their pharmacological effect is investigated. (The investigation
of the influence of the chainlength on the anesthetic- and vessel-constricting effect will be published in a later paper.)
The synthesized substances are then compared with natural similar

The synthesized substances are which compared to represent anesthederivatives of the aminopropanols, which also represent anesthederivatives of the aminopropanols, which also represent anesthederivatives of various efficiency. A series of similarly composed tics of various efficiency.

esters of the 1-alkyl-1-phenyl-2-diethylaminoethane-1-oles with straight and branching ethanol chains (I) and (II) were synthesized. The synthesis was carried out according to the following

Card 1/3

Synthetic Anesthetic Substances. Communication 28. SOV/62-59-9-14/40 Ester of the Phenyl-alkyl-amino Ethanols

scheme: basic substance was bromated phenacyl which was converted into α -dimethylaminoacetophenone (III) by dimethylamine in ether. From (III) the above-mentioned compound is obtained by the effect of the Grignard reagent, which can then be transformed under simple conditions into various esters (benzoates, phenoxyacetates,...). The branched-off compounds were obtained by similar step-by-step transformation of the propiophenone. The synthesized esters formed in the shape of their hydrochloride; they are colorless, well-crystallizing, water-soluble substances. The preparations were given to the NIKhFI im. Ordzhonikidze - Laboratoriya prof. M. D. Mashkovskoge! (NIKhFI imeni Ordzhonikidze - Laboratory of Professor M. D. Mashkovskiy)) for physiological testing. The experimental part of the article describes the conditions of synthesis. The intermediate products of the synthesis were amino ketones (III), (V), and secondary and tertiary amino alcohols with residues of diethylamines. There are 21 references, 8 of which are Soviet.

Card 2/3

Synthetic Anesthetic Substances. Communication 28. SOV/62-59-9-14/40 Ester of the Phenyl-alkyl-amino Ethanols

ASSOCIATION: Institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova

(Institute of Fine-chemical Technology imeni M. V. Lomonosov)

SUBMITTED: December 23, 1957

Card 3/3

CHERKASOVA, Ye.M.; YERKOMAISHVILI, G.S.

Synthesis of 1-aryl-4-dimethylamino-1-butanols and their esters. Izv. AN SSSR Otd. khim. nauk no.10:1820-1824 0 '60. (MIRA 13:10)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. (Butanol)

CHERKASOVA, Ye.M.; YERKOMAISHVILI, G.S.

Synthesis of cyclohexyl-/3-dimethylaminoethylcarbinols and their esters. Zhur.ob.khim. 31 no.6:1832-1838 Je '61. (MIRA 14:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.

(Methanol)

5/020/62/145/004/020/024 B110/B144 Cherkasova, Ye. M., Yerkomaishvili, G. S., Makovskaya, T. N., AUTHORS: and Chao Ping-ko Synthesis of new types of silicon-containing aminoketones, TITLE: amino alcohols, and their esters Akademiya nauk SSSR. Doklady, v. 145, no. 4, 1962, 841 - 844 PERIODICAL: TEXT: n-silico-neopentyl acetophenone (I), n-silico-neopentyl propriophenone (II) and n-silico-neopentyl isobutyrophenone (III) were obtained by acylation of trimethyl benzyl silane in the presence of AlCl3 or ZnCl2. Good yields of hydrochlorides of the β -aminoketones IV - VIII $n-(CH_8)_8$ SiCH₂ — C₄H₄ — CO — CH — CH₈ IIIV М соединения CH, CII CH N (CH₃)₅ N (CH₂)₂ Card 1/3

S/020/62/145/004/020/024 B110/3144

Synthesis of new types of ...

resulted from I and II according to Mannich with dimethyl amine, piperiding and morpholine. These compounds were transformed to tertiary amino alcohols IX - XIII according to Grignard:

$$n \cdot (CH_3)_3 \cdot SiCH_3 - C_4H_4 - C - CH - CH_5 - N$$
 C_2H_5
 $N \cdot COCДИНЕНИЯ IX X XI XII XIII
 $R' \quad H \quad H \quad CH_3 \quad CH_3 \quad CH_5$
 $N \cdot (CH_3)_3 \quad N \cdot N \cdot N \cdot O$$

II is formed by deamination of IV and deaminomethylation of V. The bases of the amino alcohols were converted with the chloride of phenoxy acetic acid to phenoxy acetates which may be used as local anesthetics. Boiling points: I: 94 - 95°C (1 mm Hg); II: 114 - 117°C (1.5 mm Hg); Boiling points: I: 94 - 95°C (1.5 mm Hg); II: 1.5260; II: 1.5233; III: 1.5170.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova (Moscow Institute of Fine Chemical Technology

Card 2/3 imeni M. V. Lomonosov)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962720020-2"

Synthesis of new types of ...

S/020/62/145/004/020/024
B110/B144

PRESENTED: March 12, 1962, by. A. A. Balandin, Academician

SUBMITTED: March 10, 1962

Card 3/3

CHERKASOVA, Ye.M.; YERKOMAISHVILI, G.S.; MIROSHNICHENKO, L.D.

On the two products of aminomethylation of cyclohexyl methyl ketone. Zhur.ob.khim. 33 no.4:1244-1246 Ap 163. (MIRA 16:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova. (Ketone) (Aminomethylation)

CHERKASOVA, Ye.M.; YERKOMAISHVILI, G.S.

Esters of phenylalkyl(4-morpholimo)propanols. Zhur. ob. khim. 33 no.5:1661-1666 My 163. (MIRA 16:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova. (Morpholine) (Propanol) (Esters)

CHERKASOVA, Ye.M.; YERKOMAISHVILI, G.S.

Secondary amino alcohols and their esters. Zhur.ob.khim. 33 no.7:2106-2109 Jl '63. (MIRA 16:8)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

(Alcohols) (Esters)

YERKOMAYSHVILI, S. K.

Yerkomayshvili, S. K. - "The chemical composition and food value of crude fodders of Eastern Georgia", Sbornik trudov (Gruz. zootekhn.-vet. in-t), Vol. VI, 1948, p. 49-61, with table, (In Georgian, resume in Russian).

SO: U-4110, 17 July 53, (Letopis Izhurnal 'nykh Statey, No. 19, 1949).

1	YERKOMAYSHVILI.	S.	Κ.

- 2. USSR (600)
- 4. Silkworms
- 7. Mulberry silkworm pupa is a valuable product. Tekst. prom. 12 no. 12, 1952.

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

YERKOMAYSHVILI, S. K. --

"Changing Wild Carnivors From Their Usual Mest-Eating Diet to a Nonmest-Eating Diet." Dr Aer Sci. Georgian Zooveterinary Inst. Tbilisi, 1953. (RZhBiol. No 3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

VERESHCHAGIN, A.P., kand. med. nauk; YERKOV, V.P., kand. med. nauk

Partial homograft of the epiphyses in tuberculous gonitis and its sequelae. Vest. khir. no. 6:101-106 '65.

(MIRA 18:12)

1. Iz Leningradskogo nauchno-issledovatel skogo instituta khirurgicheskogo tuberkuleza (dir. - prof. D.K.Khokhlov; nauchnyy rukovoditel - deystvitel nyy chlen AMN SSSR prof. P.G. Kornev).

 POPOV, V.I., prof. (Leningrad, ul. Gogolya, d. 19, kv.7), YERKOV, V.P.

Skin homotransplanation [with summary in English]. Vest.khir.
81 no.10:31-38 0 '58 (MIRA 11:11)

1. Is kliniki obshchey khirurgii No.1 (nach - prof. V.I. Popov)

Voyenno-meditsinskoy ordena Lenina akdemi S.M. Kirova.

(SKIN TRANSPLANTATION

homografts preserved by cold in rabbits & humans

(Rus))

YERKOVA, L. N.

"Study of the Suspended Layer Phenomenon." Cand Tech Sci, Leningrad Technological Inst, Leningrad, 1954. (RZhřekh, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions (14)

YNRKOVA, L.N.; SMIRNOV, N.I.

Free precipitation of solid spherical particles in a liqued medium. Zhur.prikl.khim. 29 no.5:733-738 My '56. (MLRA 9:8)

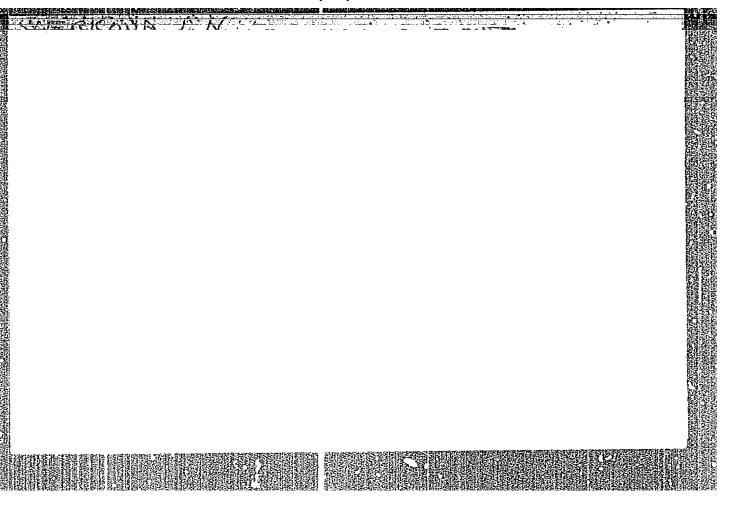
1. Kafedra tekhnologii osnovnogo organicheskogo sintexa i sinteticheskikh kauchukov Leningradskogo tekhnologicheskogo intituta imeni Lensoveta.

(Precipitation (Chemistry))

MERKOVA, L.W.; SMIRNOV, N.I.

Height of a suspended layer of spherical particles and its dependence on the conditions of the process. Zhur.prikl.khim. 29 no.8:1175-1182 Ag '56. (MIRA 10:10)

1.Kafedra tekhnologii organicheskogo sintoza i sinteticheskikh kauchukov Leningradskogo tekhnologicheskogo instituta im. Lensoveta. (Chemistry, Physical and theoretical)

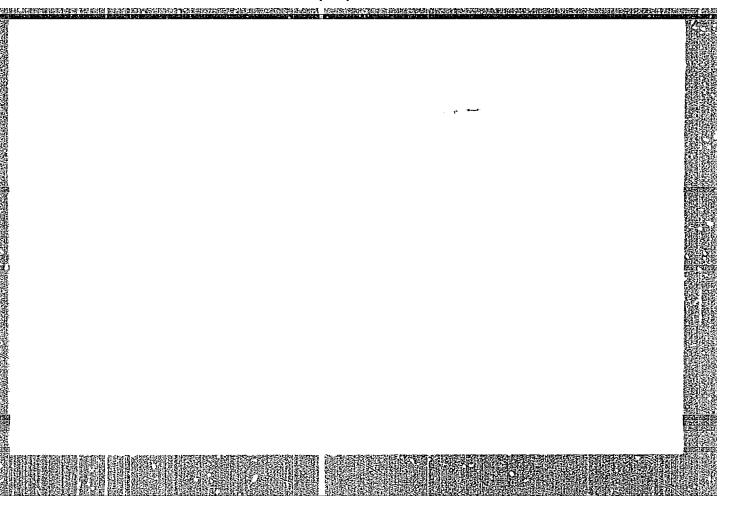


TREKOVA, L.N.; SMIRNOV, N.I.

Suspended layer of selid particles and its regularities.
Zhur.prikl,khim. 29 no.10:1484-1488 0 '56. (MIRA 10:10)

1.Kafedra tekhnolegii osnovnoge organicheskege sintema i sinteticheskikh kauchukev leningradskege tekhnolegicheskoge instituta im. Lensoveta.

(Chemistry, Physical and theoretical)



SOV/124-58-10-11311

Translation from Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 88 (USSR)

AUTHORS: Yerkova, L.N., Smirnov, N.I.

TITLE: The Suspended Layer of Solid Particles and the Laws Governing Its

Behavior (Vzveshennyy sloy tverdykh chastits i yego zakonomernosti)

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1958, Nr 45, pp 68-80

ABSTRACT: Ref. Zh. prikl. khimii, 1956, Vol 29, Nr 10, pp 1484-1488;

RZhMekh, 1957, Nr 9, abstract 10679

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B/080/61/034/002/007/025 A057/A129

AUTHORS: Lebedeva, N.N., Yerkova, L.N., Smirnov, N.I., Fermor, N.A.

TITLE: Investigation into concentration of synthetic later by the method of evaporation in an air flow

PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 319-323

TEXT: In one of the Soviet plants for synthetic rubber the concentration of later is carried out in an air flow in a rotating horizontal
drum, which is heated with hot water. Since this apparatus will be used
in several new plants, in the procent work the effect of various factors
on the evaporation process was studied in such an apparatus (Fig. 1). The
drum-shaped consentrator (1) is 402 mm long and 140 mm in diameter. It is
made of glass and has two openings, the inlet (2) and outlet (3) for the
air. The concentrator is inserted in a water tank (4) and by electrical
heating (5) the temperature is kept constant. The latter was controlled

Card 1/7

Investigation into concentration ...

S/080/61/034/002/007/025 A057/A129

by thermoelecents (6) and (7) with a milliammeter (8). Retation is ensured by a motor with a reduction gear (3). Air is supplied by a violat cleaner (10) (type "Uralete") through a gas meter (11). Two series of experiments were carried out, i.e., periodical (as in the plant) and continuous concentrations. In continuous concentrations the later was supplied from the funnel (12) through the tube (13) in portions into the concentrator and the concentrated later passed through the outlet (3) into the containor (14). The process was controlled by determining the dry substance in samples taken every 0.5 hr from (14). Investigations of different types of later (KC-30FH (SKS-30JP), CKC-50FH (SKS-50GP), CKC-65FH (SKS-65GP), and CKC-50HH (SKS-50PG) showed little or no effect of the composition of the later on the concentration process. In the present investigations concentration of SKS-50FG later was studied at a concentrator rotation rate of 30 rpm, dry residue contents from 19 to 55% and temperature of 40°C (some at 50°C). According to equations for the evaporation of liquids from a surface (Ref 3s V.7. Kafarov, ZhPKh, 30, 10, 1456 (1957) oriteria Nu' and Re were determined from Nu' = kd equiv. /D; Re = wd equiv. 7 / \mu series of the equiv.

Card 2/7

Investigation into concentration ...

S/080/61/034/002/007/025 A057/A129

(dequiv. = equivalent diameter of the cross-section of the concentrator not covered by the latex (in m), D = diffusion coefficient of steam in air (m^2/sec) , w = linear velocity of air in the concentrator (m/sec), γ and μ = density (kg/om^3) and viscosity $(kg\cdot sec/m^2)$ of the initial air, k = mass transfer coefficient). The value for k was determined for the batch process from $k = G/F\triangle c T$, and for the continuous process from $k = G/F\triangle c$ (G = amount of evaporate water (kg) in the periodical run in the T time (sec), G = amount of evaporated water (kg/sec) in the continuous run, F = surface of evaporation (m^2), Δc = mean moving force (kg water per m^3 (sec), G dry air)). The function Nui = f(Re) plotted in logarithmic accordinates indicates that experimental data are on a straight line expressed by Nu' = 0.830 Re0,5. This equation can thus be used for practical calculations of concentration apparatus in intervals where the oritorich Re changes from 400 to 1,700, and Nu' from 15 to 36. Results obtained in the present work were presented in Table 1 and 2. There are 2 figures, 2 tables and 4 references: 3 Soviet-blos and 1 non-Soviet-blos. The latter reads as follows: T.K. Sherwood, R.L. Pigford, Absorption and Extraction (1952). SUBMITTED: July 9, 1960 Card 3/7

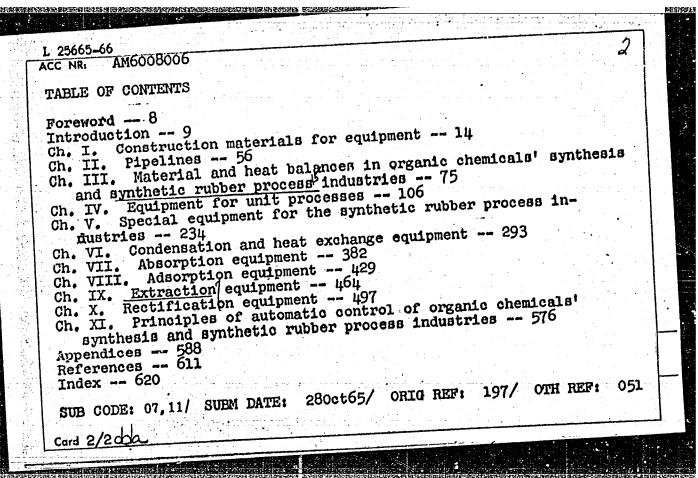
LEHEDEVA, N.H.; YERKOVA, L.M.; SMIRNOV, N.I.; FERMOR, N.A.

Study of the effect of some factors on the process of concentrating synthetic latexes. Zhur.prikl.khim. 35 no.1:201-204 Ja 162.

(MIRA 15:1)

(Rubber, Synthetic)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962720020-2"	rubuh
L 25665-66 ENT(m)/EWP(1)/I IJP(c) RM ACC NR. AMGOOSOO6 (A) Monograph UR/ Reykhsfel'd, Valeriy Orlandovich; YErkova, Lyubov' Nikolayevna 26 Equipment for organic chemicals synthesis and synthetic rubber process industries. (Oborudovaniye proizvodstv osnovnogo organiches inteza i sineteticheskikh kauchukov) Moscow, Izd-vo "Khimiya," 1965. 623 p. illus., biblio., index. Errata slip inserted. 4000 copies printed. TOPIC TAGS: chemical plant equipment, organic chemical, synthetic rubber, petrochemistry, food, pharmaceutics, equipment designs, equipment operation, material balance, heat balance, process automation PURPOSE AND COVERAGE: This is a handbook for engineers, technicians and designers concerned with organic chemicals' synthesis (monomers, alcohols, acids, etc), synthetic rubber, petrochemical, food and pharmaceutical process industries. It is suitable as a textbook for students of chemical institutions of higher education and for technicians. The book deals with the design and principles of operation of equipment, and provides data for establishing material and heat balances and for process automation. There are 254 Communist World and 60 Western references.	STANDARD CONTRACTOR OF THE PROPERTY OF THE PRO



YERKOVA, YU, V.

Works on the All-Union Peat Institute, (Min of Agri, RSFSR)

A Compendium of Instructions

Number 5, 1933, 108 pages, Ameldon on the Study of Peat and Peat Beds:

Part 2, Field Geobotanical Studies:

"Instructions on Determining the Degree of Decomposition of Peat." by Yerkova, Yu. V., and Bokut!, M.

SO: Botanicheskiy Zhurnal, Vol XXXV, No 1, pp 100-110, Jan-Feb 1950, Russian bimo per, Moscow/Leningrad (U-5511, 12 Feb 1954).

5/0119/64/000/006/0001/0003

ACCESSION NR: AP4041335

AUTHOR: Yerkovich, G. Ye.; Studennikov, Yu. A.

TITLE: Using an electronic potentiometer for narrow-range program control

SOURCE: Priborostroyeniye, no. 6, 1964, 1-3

TOPIC TAGS: potentiometer, electronic potentiometer, automatic control, program automatic control

ABSTRACT: An experience with remodeling a standard electronic potentiometer (PSR1-01) for a narrow range (measuring temperature within 1,250-1,450C) is reported. Two versions of remodeling — the addition of a resistor and altering the values of three existent resistors — are considered and found to have no effect on the potentiometer sensitivity. The instrument error, as a result of the remodeling, increases from \$\frac{1}{2}\$0.5% to \$\frac{1}{2}\$%. The dead zone is 1-2C. The modeled potentiometer was used in the program control of temperature of a

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ACCESSION NR: AP4041335

laboratory furnace used for physico-chemical investigations; the program was set to lower the furnace temperature at a rate of 1/2 to 1/12 degree C/minute.

Orig. art. has: 3 figures and 6 formulas.

ASSOCIATION: none

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ENGL: 00

SUB CODE: EC, DP

NO REF SOV: 006

OTHER: 000

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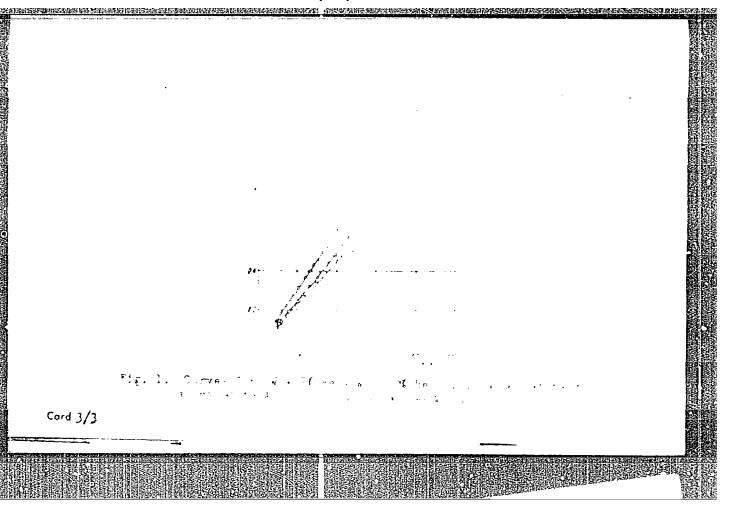
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s/0051/64/017/001/0030/0034

ACCESSION NR:

AUTHORS: Yerkovich, S. P.; Pisarevskiy, Yu. V.; Ageshin, F. S. Concerning a procedure for determining oscillator strengths

for electronic transitions in molecules TITLE:

SOURCE: Optika i spektroskopiya, v. 17, no. 1, 1964, 30-34

TOPIC TAGS: oscillator strength, level transition, molecular spectrum, level transition, diatomic molecule

ABSTRACT: It is pointed out that the method proposed by the authors (Opt. i spektr. v. 6, 297, 1959; v. 8, 303, 1960; v. 9, 269, 1960) for determining the electron-transition probabilities in diatomic molecules from the absorption coefficients obtained with a spectrograph having a transmission-band integral that encompasses many rotational lines involves certain difficulties connected with an exact account of the intensity distribution in the rotational struc-

1/2

APPROVED FOR RELEASE: 09/01/2001 CIA RDP86 00513R0019629

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ACCESSION NR: AP4042979

ture of the band. To this end, the $\delta(0,0)$ band of the NO molecule is used as an example to demonstrate that the Honl and London factors (H. Honl and F. London, Zs. Phys. v. 33, 803, 1925), calculated by the method of E. Hill and J. H. Van Vleck (Phys. Rev. v. 32, 250, 1928), yield intensity distributions in the band that are in good agreement with experiment. This makes it possible to use the intensity formulas obtained with the aid of the wave functions for a symmetrical top, which in the case of the NO molecule agree with the experimental values. The calculated intensity factors are compared with experiment by using the data of F. F. Marmo (J. Opt. Soc. art. has: 21 formulas and 1 figure.

ASSOCIATION: None

SUBMITTED: 090ct63

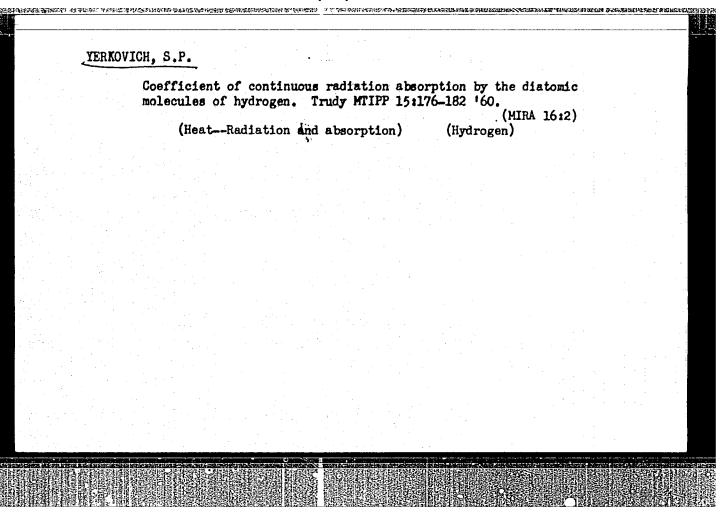
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ENCL: 00

OTHER: 008

2/2



Determining proton concentration in the atmosphere of hydrogen stars. Trudy MTIPP 15:217-225 '60. (MIRA 16:2) (Protons) (Stars—Atmospheres)

SOV/51-6-3-4/28

AUTHOR: Yerkovich, S.P.

TITLE: The Oscillator Strength of the γ -System of NO Bands (O sile ostsillyatora dlya γ -sistemy polos NO)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 297-303, (USSR)

ABSTRACT: The author used the experimental data of Marmo (Ref.2) and Mayence (Ref.4) to find the oscillator strength f for the γ -system (X² Π -A² Σ transitions) of nitrogen oxide (NO) bands. Marmo's data yielded a mean value f=0.043 (Table 1) in the region of long-wavelength maxima of the $\gamma(1,0)$ and $\gamma(2,0)$ bands. Mayence's data, which the author regards as less reliable, gave f=0.032-0.036 (Table 2) for the long-wavelength maximum of the $\gamma(1,0)$ band. The less exact measurements in the region of the short-wavelength maximum of the $\gamma(1,0)$ band reported by Marmot and Mayence led to f=0.037-0.056 (Table 3). The author regards f=0.043 Card 1/2 as the best value. He shows that the value f=0.0025