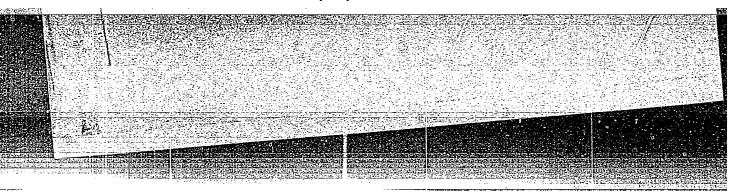
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The Thickness of Thin Layers of "Fixed" Water

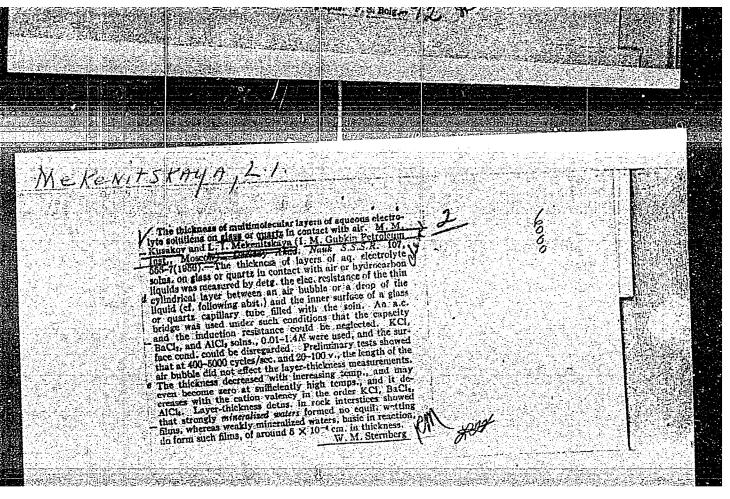
results of the investigations show that, depending on the combination of the adjacent phases, the thin layer can produce either a positive or a negative wedging effect In the first instance it is positive and retains an equilibrium thickness over an indefinite time, whereas in the second case it is gradually displaced by the liquid contained in the drop introduced into the capillary. The realization of the one or the other effect depends on the ratio of surface tensions along the two boundaries of the thin layer. The influence of the composition of the electrolytes and the temperature on the thickness of the layer was investigated. Bibliography: 26 references

S. V. Nerpin

Card 2/2



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KUSAKOV, H.M.; MEKENITSKAYA, L.I.

Experimental investigation of the thickness of polymelecular layers of water solutions of electrolytes on glass and quartz at the interface with air. Dekl.AN SSSR 107 no.4:555-557 Ap 156. (MLRA 9:7)

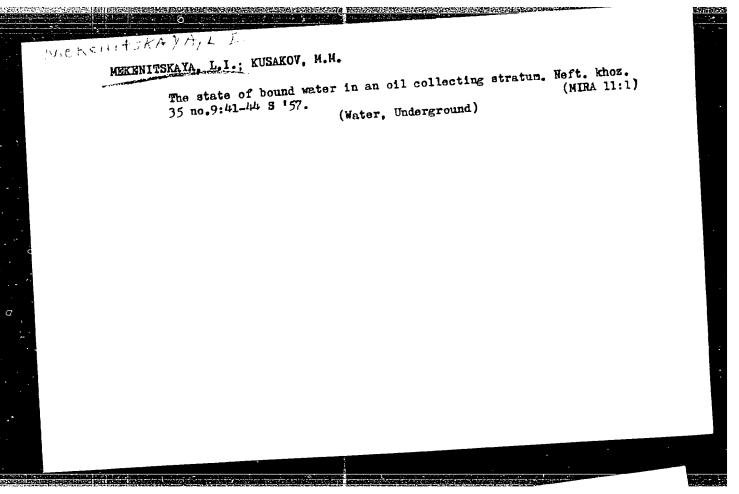
1.Meskevskiy neftyanoy institut imeni I.M.Gubkina. Predstavleno akademikem A.V.Tepchiyevym.
(Electrelytes)

THE REPORT OF THE PROPERTY OF

KUSAKOV, M.M.; MEKENITSKAYA, L.I.

Experimental investigation of the thickness of polymolecular layers of water solutions of electrolytes on glass and quartz at the interface with a hydrocarbon liquid. Dokl.AN SSSR 107 no.5:715-716 Ap 156. (MLRA 9:8)

1. Moskovskiy neftyanoy institut imeni I.M. Gubkina. Predstavleno akademikom A.V. Topchiyevym.
(Electrolytes)



Molecute Kny4, 1 20-5-25/54 Kusakov, M. M. and Mekenitskaya, L. I. The Film and Capillary-Held Water in a Porous Medium (Plenochnaya i kapillyarno - uderzhannaya voda v poristoy srede) Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 5, pl. 942-945 AUTHOR: , TITLE: In 4 previous works by the same nuthors the thickness of the polymolecular layers of electrolytic water solutions on the inner surface of a single capillary at various dividing boundaries was PERIODICAL: (USSR) studied. These properties were studied in mineral gas- and mineral containing levers of complete of containing levers of al oil containing layers on samples of quartz sandstone of the Tuymaz oilfield in order to find out to what extent the con-ABSTRACT: ruymaz officer in officer to find out to what eavent the con-clusion concerning thin layers in single capillaries hold for porous milieus and/ or can serve for the characterization of the Btate of bound water in mineral gas and mineral oil containing zones d a mineral oil collector. It was proved on this occasion that the method of water displacement from the cores though a little permeable dividing wall can be used for this characteri-Zation. If distilled water is used as rest water, it is in the Card 1/4

20-5-25/54 The Film and Capillary-Held Water in a Porous Medium

cores not only in a capillarily-held, but in a film state, for distilled water can exist on glass and on quartz on the boundary with gas in form of balanced, moistening, thin layers. Fig. 1 shows the results of investigations of NaCl concentration with respect to the remaining water saturation (expressed in % of the pore volume), for 3 cores of different permeability. From the diagram (fig. 1) it may be seen that with the increase of Na Cl concentration the quantity of the liquid remaining in the core decreases. Figure 2 shows curves which express the dependence of the remaining water saturation for distilled water and for 5 N-NaCl solution on the permeability of the core. Herefrom it may be seen that with a permeability of a porous milieu of 800 - 100 mda and more the quantity of the remaining liquid is independent of the permeability. From table 1 it may be seen that the quantity of capillarily held liquid in the porous medium is practically independent of the nature of the electrolyte. The average film thickness of the distilled water "h" can be estimated from the difference between the total quantity in the cores of the capillarily held liquids and the size of the specific core surface. Figure 3 shows the dependence of the average water film thickness (distilled) in the porous medium on the value 6 /r, which is

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20-5-25/54

The Film and Capillary-Held Water in a Porous Medium

proportional to the expansive pressure of a cylindrical fine layer. This shows that also in this milieu the average layer thickness, conditions otherwise being equal, is determined by their expansive pressure. The remaining saturation is, in the case of trivalent salt solutions (AlCl,) and relatively low concentrations for their same values, lower than in the case of univalent ones (NaCl). Apparently the thickness of the layers in AlCl, solutions is less than that in NaCl solutions. At high concentrations practically no difference was observed in this respect, which might be explained by a complete destruction of the layers of moisturing at high concentrations. The above results mention the fact that the properties of fine layers such as were studied at the single capillaries on the boundary air / aqueous electrolyte solution / glass or / quartz, are fully conserved also in porous media. Consequently, the previously drawn conclusion is correct, i.e. that the state of bound water, particularly is gas, containing collectors, which represents electrolyte solutions, is determined by the physical-chemical properties of the liquid. There are 3 figures, 1 table, and 11 Slavic references.

Card 3/4

The Film and Capillary-Held Water in a Porous Medium

20-5-25/54

ASSOCIATION:

Moscow Petroleum Institute imeni I.M. Gubkin

(Moskovskiy neftyanoy institut im. .. M. Gubkina)

PRESENTED BY: A.V. Topchiyev, Academician, February 13, 1957

SUBMITTED:

February 11, 1957

AVAILABLE:

Library of Congress

Card 4/4

MEKENITSKAYA, L.I.; KUSAKOV, M.M.

Molecular characteristics of oil-sand surfaces. Izv.vys.ucheb.zav.;
neft'i gaz 1 no.9:53-60 '58. (MIRA 11:12)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
imeni akademika I.M. Gubkina.

(0il sands)

AU THORS:

Kusakov, M. M., Mekenitskaya, L. I.

sov/156-58-4-11/49

TITLE:

Method of Determining the Ratio Between Hydrophobic and Hydrophilic Surface on Uncemented Porous Mass (Metod opredeleniya soctnosheriya gidrofobnoy i gidrofil'noy poverkhnostey nestsementirovannykh poristykh ared)

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 4, pp 656-659 (USSR)

ABSTRACT:

PERIODICAL:

A method of characterizing the ratio between the hydrophilic and hydrophobic surface of the porous mass was suggested for determining oil-containing sand. The ratio between hydrophobic surface S_{hydrophobic} and S_{hydrophilic} is determined by the magnitude y, which is the characteristic feature of the molecular surface of oil-containing sand:

 $\frac{S_{hydrophobic}}{S_{hydrophilic}} = \frac{S_{hydrophobic}}{S-S_{hydrophobic}}$

 $S = S_{hydrophobic} + S_{hydrophilic}$ is the total surface of the solid phase. The ratio w of oil-containing sand was determined

Card 1/2

Method of Determining the Ratio Between Hydrophobic and Hydrophilic Surface on Uncemented Porous Mass

by the adsorption method. The method of determining the magnitude y is described in detail. Mersolate was used as an adsorbing agent. Experiments with synthetic sand mixtures containing different hydrophobic and hydrophilic quantities were carried out to check this method experimentally. A calibration curve was plotted. The determination of the ratio hydrophobic: Shydrophobic was compared to the determinations of synthetically produced sand. Satisfactory results were obtained.

There are 3 figures and 7 references, 5 of which are Soviet.

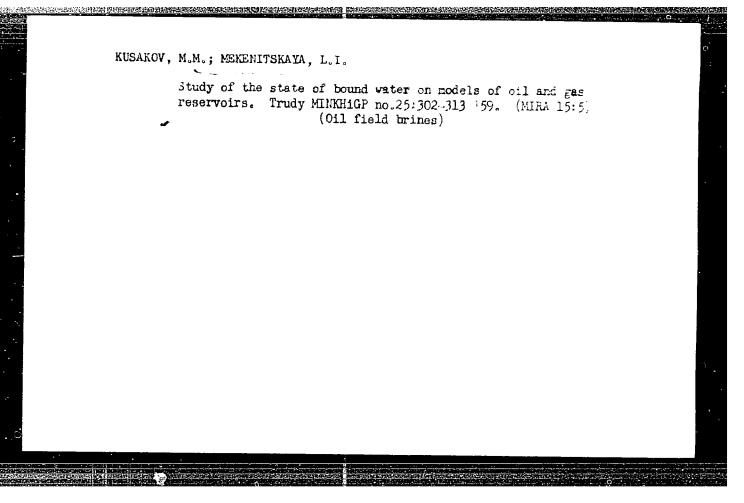
ASSOCIATION:

Kafedra fiziki Moskovskogo neftyanogo instituta im. akad. I. M. Gubkina (Chair of Physics at the Moscow Institute of Petroleum imeni Academician I. M. Gubkin)

SUBMITTED:

March 26, 1958

Card 2/2



KUSAKOV, M.M.; LUEMAN, N.M.; KOSHEVNIK, A.Yu.; KOSHELEVA, I.M.;
MEKENITSKAYA, L.I.

Studies of the physical chemistry of oil layers. Trudy Inst. geol.
i razrab. gor. iskop. 2:71-80 '60. (MIRA 14:5)

(Oil reservoir engineering)

MEKENITSKAYA, LI.

PHASE I BOOK EXPLOITATION

SOV/5590

Konferentsiya po poverkhnostnym silam. Moscow, 1960.

Issledovaniya v oblasti poverkhnostnykh sil; sbornik dokladov na konferentsii po poverkhnostnym silam, aprel' 1960 g. (Studies in the Field of Surface Forces; Collection of Reports of the Conference on Surface Forces, Held in April 1960) Moscow, Izdvo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Institut fizicheskoy khimii Akademii nauk SSSR.

Resp. Ed.: B. V. Deryagin, Corresponding Member, Academy of Sciences USSR; Editorial Board: N. N. Zakhavayeva, N. A. Krotova, M. M. Kusakov, S. V. Nerpin, P. S. Prokhorov, M. V. Talayev and G. I. Fuks; Ed. of Publishing House: A. L. Bankvitser; Tech. Ed.: Yu. V. Rylina.

PURPOSE:. This book is intended for physical chemists.

Card 1/8

Studies in the Field of Surface Forces (Cont.)

SOV/5590

3

COVERAGE: This is a collection of 25 articles in physical chemistry on problems of surface phenomena investigated at or in association with the Laboratory of Surface Phenomena of the Institute of Physical Chemistry of the Academy of Sciences USSR. The first article provides a detailed chronological account of the Laboratory's work from the day of its establishment in 1935 to the present time. The remaining articles discuss general surface force problems, polymer adhesion, surface forces in thin liquid layers, surface phenomena in dispersed systems, and surface forces in aerosols. Names of scientists who have been or are now associated with the Laboratory of Surface Phenomena are listed with references to their past and present associations. Each article is accompanied by references.

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JA/rsm/os 10/28/61

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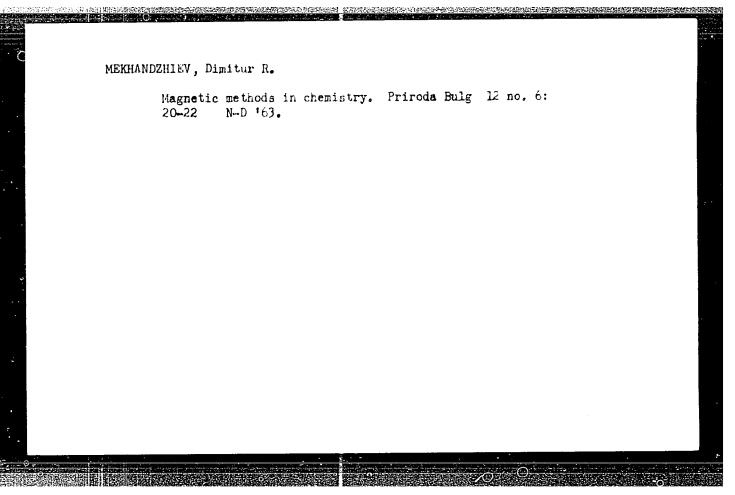
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inzhener; LAVROVA, V.V., spets. redaktor; GLZUNOVA, V.V., redaktor;
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PEIKOV, St., inzh.; BOICHEV, At., inzh.; MEKHANDZHIEV, M., inzh.

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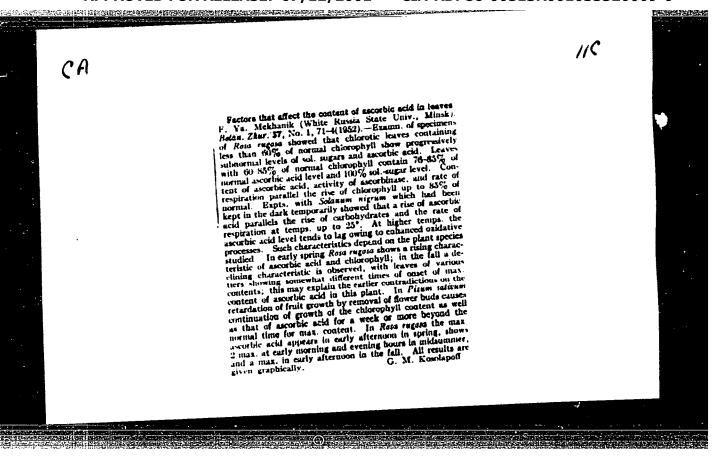
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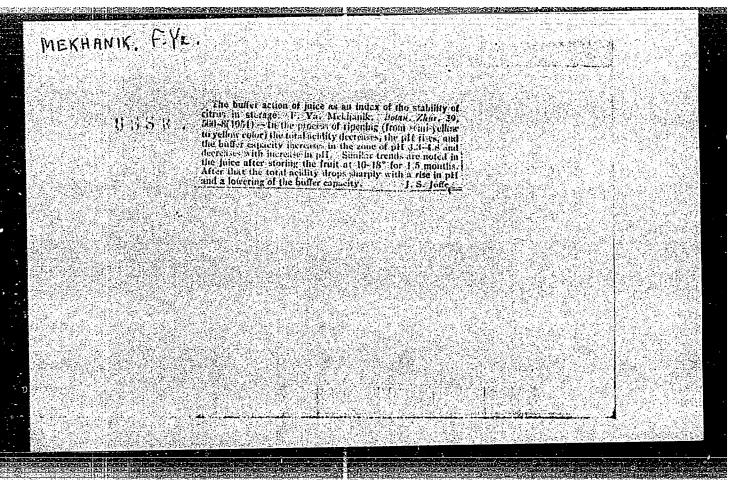
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- 9a. Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

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Dec Ts. Mekhanik	"Priroda" No 12, p 56 Investigated the keeping quality of citrus fruit stored in carbon dioxide, nitrogen, hydrogen, ethu vapor, and acetylene. As distinguished from the other gases, acetylene preserved the fruit in a perfectly unspoiled and fresh condition for over a year. It also prevented exptl infection with Renieillium italicum and Penicillum digitatum and eliminated diseases which affect the fruit during	te con the	
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Şe ₄	"Priroda" No 12, p 56 Investigated the keeping quality of citrus frattored in carbon dioxide, nitrogen, hydrogen, vapor, and acetylene. As distinguished from other gases, acetylene preserved the fruit iperfectly unspoiled and fresh condition for a year. It also prevented expti infection will Penicillium italicum and Penicillum digitatum eliminated diseases which affect the fruit di	the period of ripening (caused by Colletot gloesporioides and Alternaria citri). The treated with acetylene cannot be used for tion, because it acquires a disagreeable The method is suitable for preservation of specimens and other purposes.	
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USSR/Biology - Flant Diseases	oing (cide, cide, con As and for cente(ripening (cause and Alternaria cetylene cannot it acquires a suitable for prother purposes.	
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MEKHANIK, F. Ya., kandidat biologicheskikh nauk, Leningrad

Significance of vitamins to fishes. Priroda 44 no.10:102-104
0'55. (Vitamins) (Fishes)

MEKHANIK, F.Ya.

Grewth and metabolism in fry of Ladega salmen and rainbew treut at different temperatures [English summary in insert]. Zeel.zhur.35 ne.2:290-299 F 156. (MLRA 9:7)

1. Vsesoyuznyy nauchne-issledovatel'skiy institut ezernege i rechnege rybnego khezyaystva.

(Fishes)

All AH. Mith. F fat

MEKHANIK, F.Ya.

The problem of fish starvation [with summary in English]. Zool. zhur. 36 no.12:1897-1890 D '57. (MIRA 11:1)

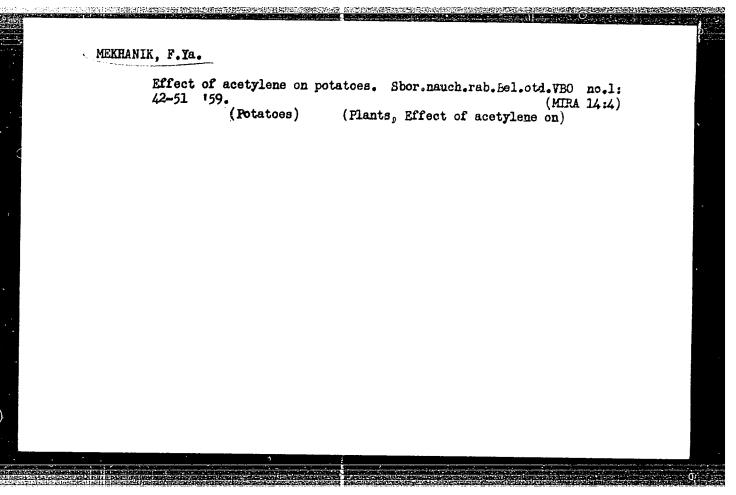
1. Vsesoyuznyy nauchno-issledovael skiy institut ozernogo i rechnogo rybnogo khozyaystva.

(Fishes--Food)

KEKHANIK, F.Ya.

Treatment of young cucumber plants with acetylene as means of promoting the development of fertile female flowers. Dokl.Akad. sel'khoz. 23 no.11:20-23 '58. (MIRA 11:12)

1. Belorusakaya ordena Trudovogo Krasnogo Znemeni sel'skokhozyaystvennaya akademiya. Predstavlena akademikom A.A.Avakyanom.
(Cucumbers) (Acetylene)

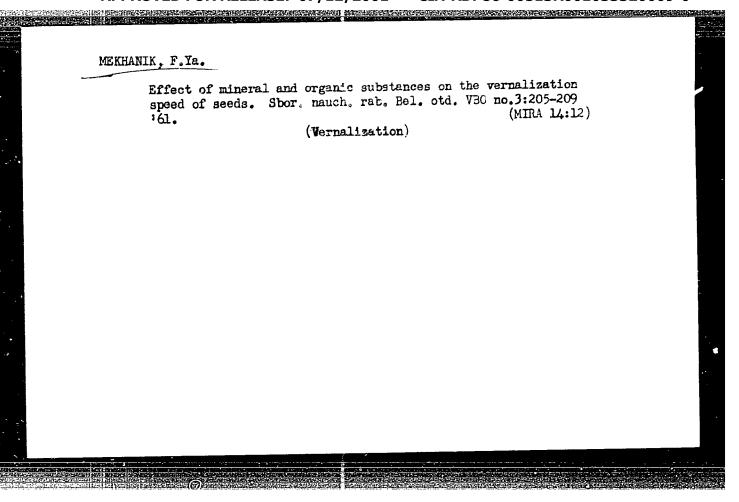


MEKHANIK, F.Ya. Acetylene-induced sex ratio shifts in generative shoots of monoecious plants. Bot.zhur. 44 no.9:1231-1237 S '59. (MIRA 13:2) 1. Belorusskaya sel'skokhozyaystvennaya akademiya, g.Gorki. (Plants, Sex in) (Plants, Effect of acetylene on)

MEKHANIK, F.Ya.

Effect of mineral and organic fertilizers on the vernalization stage of plants. Agrobiologiia no. 3:440-442 Ky-Je '60.
(MIRA 13:12)

1. Belorusskaya sel'skokhozyaystvennaya akademiya, g.Gorki, Mogilevskoy oblasti. (Fertilizers and manures) (Vernalization)



MEKHANIK, F. Ya.

Effect of the oxidation-reduction properties of solution absorbed by seeds on the vernalization rate and branching of ears. Fiziol.rast. 8 no.3:330-337 '61. (MIRA 14:5)

l. Belorusskaya sel'skokhozyaystvennaya akademiya, Gorki. (Vernalization) (Oxidation-reduction reaction) (Rye)

MEKHANIK, F.Ya.

Oxidation-reduction characteristics of plants during the vernalization and light stages. Zhur.ob.biol. 23 no.4:265-275 J1-Ag '62. (MIRA 15:9)

1. Belorusskaya sel'skokhozyaystvennaya akademiya, Gorki, Mogllevskaya oblast'.
(PLANTS, EFFECT OF LIGHT ON) (VERNALIZATION)

(OXIDATION-REDUCTION REACTION)

CIA-RDP86-00513R001033320009-0" **APPROVED FOR RELEASE: 07/12/2001**

ACC NR: AP6033277

SOURCE CODE: UR/0020/66/170/004/0974/0977

AUTHOR: Yermokhina, T. H.; Hekhanik, H. L.; Zaytseva, G. N.; Belozer-

ORG: Moscow State University im. H. V. Lomonosov (Moskovskiy gosudar-

TITLE: Investigation of phenylalanyl-RNA-synthetase and phenylalanine

SOURCE: AN SSSR. Doklady, v. 170, no. 4, 1966, 974-977

TOPIC TAGS: enzymology, RNA, RNA synthesis, Empres, cell physiology, modical remarks, blochemistry, insect, enzyme, yeset

ABSTRACT: The possible heterogeneity of phenylalanyl-RNA synthetases and their corresponding sRNA's was investigated using insect and microbial materials as sources of biochemicals. Cellular extracts of very high purity were obtained using standard methods. The enzymes from insect larvae and yeasts were separated into two components on a DEAE cellulose column and their physical properties and enzyme action determined using radioactive tracer methods. Two corresponding sRNA fractions were also separated, enzyme EI aminoacylates phenylalanine with RNAII and enzyme B2-RNAI. In the protein fraction a third enzyme E_3

Card 1/2

UDC: 547.963.3

ACC NR. AP6033277

appeared, but two corresponding C¹⁴-phenylalanyl RNA's were discovered, a case of one enzyme governing the formation of two slightly different sRNA's. E_I was species specific being found only in extracts from flies. The existence of other sets of general heterogeneous and species specific enzymes are postulated for other organisms. Orig. art. has:

[V.A. 50]

SUB CODE: 06/ SUBH DATE: 29Jun66/ ORIG REF: 004/ OTH REF: 015

Card 2/2

MEKANIK, N.S.

Mekanik, N.S. "Data on the growth anatomy of the clavicle", Trudy Voyen.-mor. med. akad., Vol. XI, 1948, p. 242-62,- Bibliog: 27 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

MEKHANIK, N.S.

Mekhanik, N.S. "Torsio femoris in the light of new data on the architecture of solid bone matter", Trudy Voyen.-mor. med. akad., Vol. XI, 1918, p. 263-79, -Bibliog: 31 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

MEKHANIK, N.S. "On a method of studying the rib structure of man", Trudy voyen.-mor. med. akad., Vol. XI, 1948, p. 280-83.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

MEKHAHIK. N.S.

Structures of the compact bone and their significance in surgery. Khirurgiia. Moskva no. 9:35-39 Sept 1952. (CLML 23:3)

1. Professor. 2. Of Naval Academy.

- 1. MEKHANIK, N. S.
- 2. USSR (600)
- 4. Scapula
- 7. Torsion of the shoulder bone in man in ontoge genesis., Arkhiv.anat. gist. i embr., 29, No.4, 1952.

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

MEKHANIK, M.S. (Leningrad, 22, Petrop.vlovskaya ul., d.8, kv.57)

Torsion and age peculiarities of the human radius. Arkh.anat.gist.
i embr. 33 no.4:18-23 O-D '56. (MLBA 10:4)

1. Is kefedrynormal'noy anatomii (nachal'nik - professor V.M.Godinov)
Voyenno-morskoy meditsinskoy akademii.

(RADIUS, anat. and histol.

dimensions & torsion in relation to age)

HERHANIK, Haum Solomonovich; ALEKSEYEVA, Ye.S., red.; SHEBALIHA, G.Ya., tekhn.red.

[Principles of plastic anatomy] Osnovy plasticheskoi anatomii.
Moskva, Gos.izd-vo "Iskusstvo." 1958. 349 p. (MIRA 12:3)
(Anatomy, Artistic)

MEKHANIK, N.S. (Leningrad, 22, Petropavlovskaya ul., d.8, kv.57)

Age characteristics of hand proportions in man. Arkh.anat. gist. 1 embr. 37 no.7:83-87 J1 59. (MIRA 12:10)

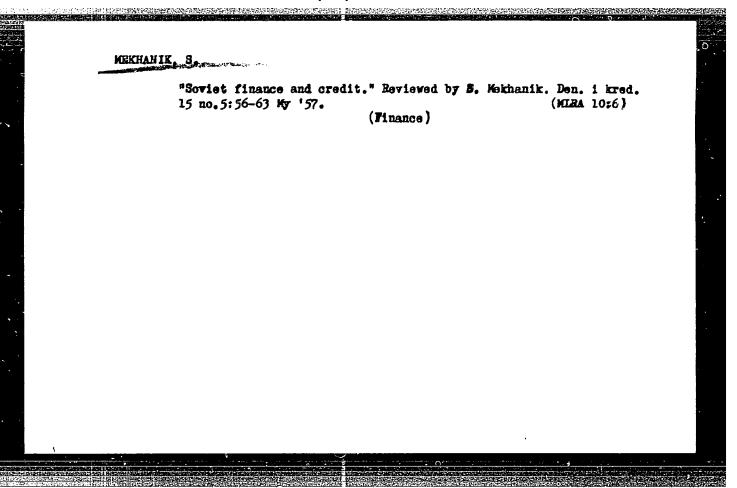
1. Kafedra plasticheskoy anatomii (zav. - prof.N.S.Mekhanik) Instituta Akademii khudozhestv SSSR im. I.Ye.Repina. (HAND, anatomy & histology) (AGING, effects)

MEKHANIK, S.	17G77	
	USSR/Finance 4901.0300 Oct 1947	
	"Financial Relationships Between Main Administrations and Industrial Enterprises, "S. Mekhanik, 5 pp	
	"Sov Finansy" Vol VIII, No 10	
	Discussion of subject based on violations of decrees and improper relations between the main administrations and their subordinate enterprises in financial matters. Remedies suggested.	
	16	

MCKENTIK, 3.

25264 MCKENTIK, 3. Preimushches've orya izutsii oborotnykh sredstv sotsialisticheskika predpiyatly. Denbgi i Kreuit, 1948, No. 6, 5, 7-16

SO: Letopis'Shurnal Statey, No. 30, Moscow, 1/46



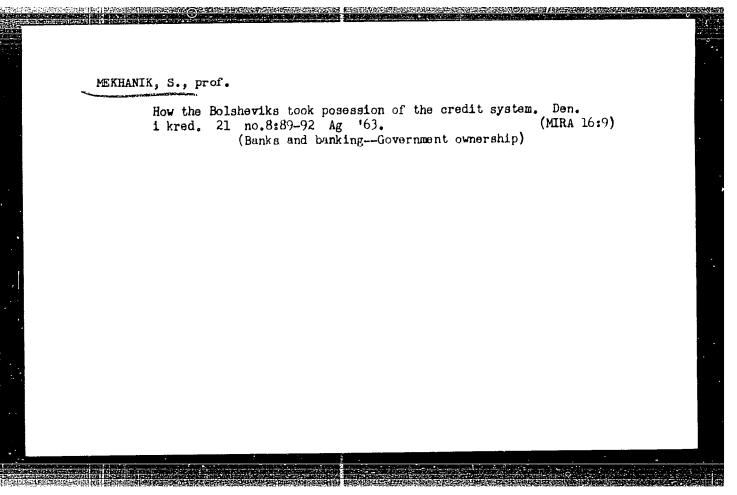
MEKHANIK.	S,	
	Role of credit and banks in the production and distribution of the national income. Deni kred. 18 no.11:10-20 N'60. (MIRA 13:11)	
•	(Finance)	
,		

MEKHANIK, -S., doktor ekonomicheskikh nauk

State Bank tasks in the seven-year plan ("Credit system in the seven-year plan" by A.K.Korovushkin. Reviewed by S.Mekhanik). Den.i kred.

19 no.5:87-91 My '61. (MIRA 14:5)

(Credit) (Korovushkin, A.K.)



MEKHANIK, V.P.

AUTHOR: Mekhanik, V.P., Engineer.

122-2-11/33

TITLE:

The Selection of Flywheels for Press-forming Machines

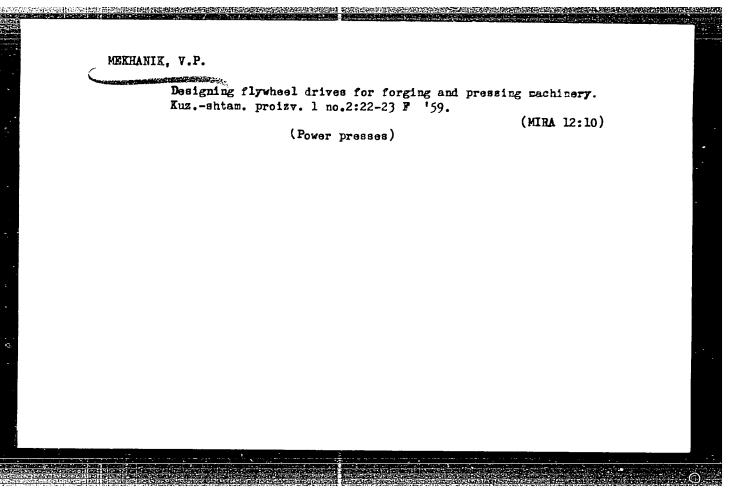
(Vybor makhovika kuznechno-pressovykh mashin)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, No.2, pp. 37-40 (USSR)

ABSTRACT: An analytical method is given to compute the required moment of inertia of the flywheel for forging presses and the like. The analysis dispenses with the assumption that the mechanical characteristic of the driving induction motor can be approximated by a straight line. The torque referred to the crankshaft is not assumed to be a two-step curve, but is introduced as a Fourier series. Formulae are given for the required motor power and flywheel moment of inertia. There are 3 figures and 1 Russian reference.

AVAILABLE: Library of Congress

Card 1/1



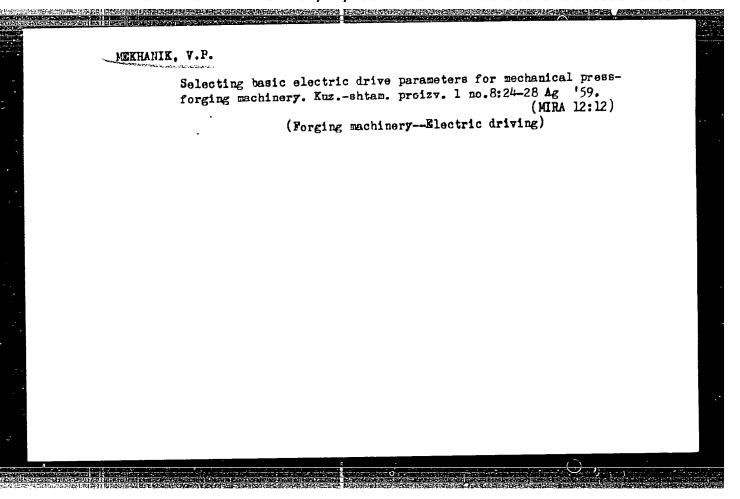
MEKHANIK, V.P.

Calculating flywheels for forging machinery. Kuz-shtan.proizv.

1 no.5:30-32 My '59.

(Forging machinery)

(Forging machinery)

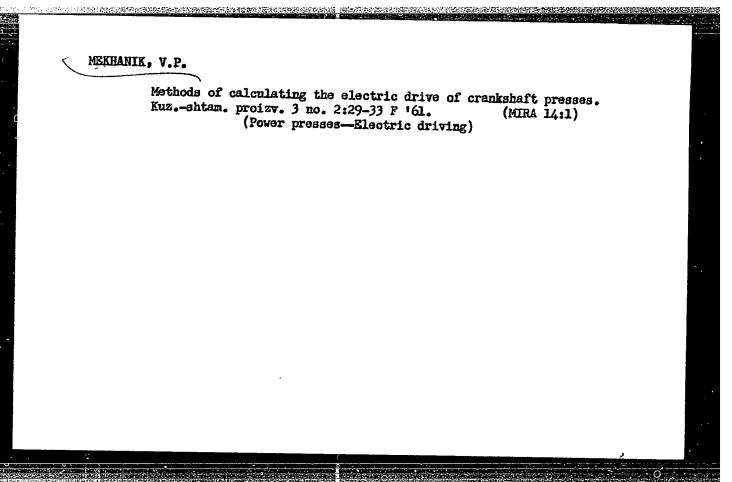


MEKHANIK, V. P., CAND TECH Sci, "METHODS OF COMMENTARY

THE ELECTRIC CHARK DRIVE OF CHARE-STAMPING PRESSES." MOS
COW, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR. MOSCOW

Animody (KL-UV, 11-61, 221).

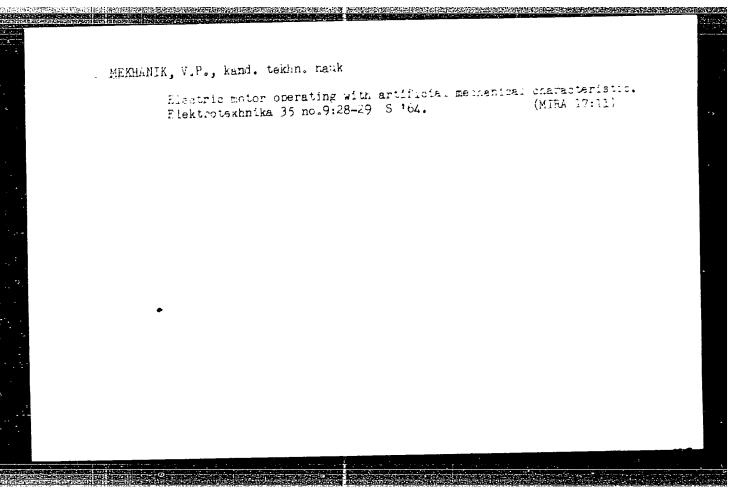
-164-



Calculating the electric driving of single stroke automatic machines.

Kuz.-shtam. proizv. 3 no.11:38-41 N '61. (KIRA 14:11)

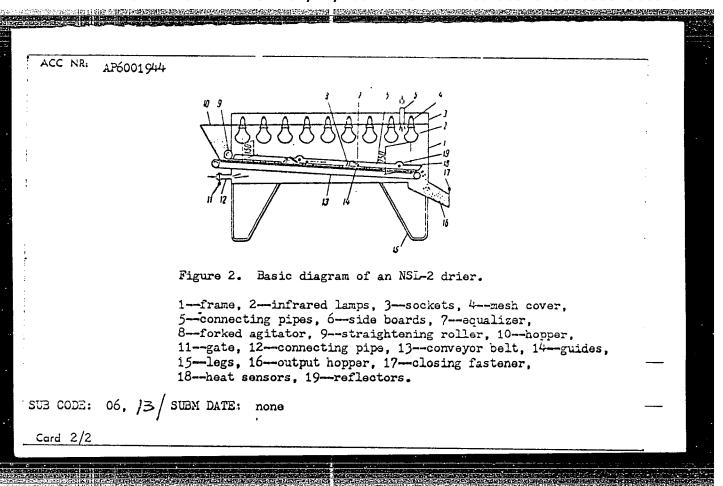
(Sheet metal working machinery--Electric driving)



ACC NR:	AF5001544	(A)	SOURCE CODE: UR/0330/65/000/010/0015/0	019
AUTHOR:	Pugachev, V. A.	. (Engineer); Mek	khanikov, A. M. (Engineer)	-,
ORG: Molissledova	ldavian Sciontif atel'skiy instit	ic Research Inst ut pishchevoy pr	citute of Food Industry (Moldavskiy nauchno- comyshlennosti)	٠.
TITIE:	Infrared lamp co	ntinuous drier N	:S1-2	
SOURCE:	Nonservnaya i o	voshchesushil ^t na	ya promyshlennost', no. 10, 1965, 15-19	
TOPIC TAC	S: IR lamp, in	dustrial drier,	food technology	
compared weight (3	to steam and fl	in wine making ame drier types : Verall dimension:	s drier for drying grape seeds, racemic acid is described. The advantages of this drier include high efficiency (60 to 65%), light s, wide range of temperature conditions, and art. has: 2 figures.	
	·		**	_

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320009-0"

UDC: 664.8.036.539



PLAKHOVA, N.B.; MEKHANIKOVA, V.G.; DEYEVA, A.I.

Obtaining gamma globulin for tick-borne encephalitis under industrial conditions. Trudy Tom NIIVS 12 :254-257'60 (MIRA 16:11)

l. Tomskiy nauchno-issledovatel*skiy institut vaktsin i
syvorotok.

*

MEKHANIKOVA, V.G.; CHERKASHIN, V.I.; FEDOROV, Yu.V.

New beaker as a hemogenizer for pulverizing tissues under sterile conditions. Lab. delo 8 no.4:51-52 Ap '62. (MIRA 15:5)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok. (TISSUE EXTRACTS--EQUIPMENT AND SUPPLIES)

MEKHANIKOVA, V.G.; FEDOROV, Yu.V.; VASIL'YEVA, O.A.; ZEL'TINA, N.F.

Effect of the duration of storage on the virus-neutrallizing activity of gamma globulin in tick-borne encephalitis.

Trudy TomNIIVS 14,245-246 163. (MIRA 17;7)

1. Tomskiy nauchno-isaledovateliskiy institut vaktsin i syvorotok.

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MEKHANNIKOVA, T.T.; BRAKENGEYM, I., red.

[Use of keramzit in rural construction]Primenenie keramzita v sel'skom stroitel'stve. Krasnoiarsk, Krasnoiarskii sovet nauchno-tekhn. obshchestv NTO Stroindustrii, 1962. 31 p. (MIRA 16:4)

l. Glavnyy inzhener laboratorii stroitel'nykh materialov Krasnoyarskogo Nauchno-issledovatel'skogo instituta po stroitel'stvu (for Mekhannikova). 2. Ružovoditel' laboratorii stroitel'nykh materialov Krasnoyarskogo Nauchno-issledovatel'skogo instituta po stroitel'stvu (for Brakengeym).

(Keramzit)

.22(3)

SOV/178-58-7-9/24

AUTHOR:

Mekhanoshin, I.; Guards Lieutenant Colonel

TITLE:

Saving Training Time (Ekonomim uchebnoye vremya)

PERIODICAL:

Voyennyy svyazist, 1958. Nr 7: p 27 (USSR)

ABSTRACT:

The author reports on the training of radio operators in his unit. Based on the experience of the past years, the trainees begin to learn the most difficult signs first, whereby letters and numbers must be learned simultaneously. About 60-65% of the work at the radio stations is used for transmitting. The maintenance of weapons and radio equipment is combined with instructions, whereby the officers and NCO's check the knowledge of the trainees, while the latter may also ask questions. The officers perform detailed time-studies of the trainees' work, whereby inadequate skill in one operation or the other

Card 1/2

SOV/178-58-7-9/24

Saving Training Time

is detected immediately. The instructors acquired better methods of teaching, thus more time became available for practical training. The author concludes his article with the statement that with more careful planning of the training time, the radio operators will acquire more skill during the training.

Card 2/2

SHVETSOV, Ye.S.; MEKHANOSHIN, S.P.

Distribution of phlogopite deposits in the Aldan mica-bearing province. Zakonom. razm. polezn. iskop. 6:373-384 162.

(MIRA 16:6)

1. Yakutskoye geologicheskoye upravleniye. (Yakutia--Phlogopite)

ACCESSION NR: AP4029206

5/0226/64/000/002/0046/0050

AUTHOR: Nazarchuk, T. N.; Hekhanoshita, L. N.

TITLE: The problem of oxidizability of boron carbide

SOURCE: Poroshkovaya metallurgiya, no. 2, 1964, 46-50

TOPIC TAGS: boron carbide, oxidation, boron carbide oxidation, high temperature oxidation, boron carbide purity, boron carbide refining

ABSTRACT: Free carbon has a detrimental effect on properties of boron carbide. Several strong oxidizers were tested for ability to eliminate free carbon from boron carbide. The best results were obtained with a mixture of concentrated nitric, sulfuric, and perchloric acids with potassium bichromate. Treatment of raw boron carbide with this mixture for 15-25 min reduced carbon and iron contents from 26.14—26.30% and 0.23—1.1% to 21.4—23.% and 0.07—0.24% respectively, and increased boron content from 69.8—70.0% to 75.0—77.5%. The oxidation behavior of boron carbide powder (particle size 0.062—0.074 mm) at 500—1300C in a stream of oxygen

Card 1/2

ACCESSION NR: AP4029206

varies according to the total content of boron and carbon and the content of free boron. Generally, boron carbide begins to react with oxygen at 600C; at 700C the oxidation rate increases sharply, at 900—1000C it drops somewhat, and at 1200—1300C another sharp increase occurs. At all temperatures tested, the oxidation rate decreases with time, owing to the formation of a layer of boron trioxide on powder particles. However; at 1200—1300C boron carbide is oxidized completely. Generally, as the total carbon content rises, boron carbide becomes more oxidizable. The ratio of combined boron to total carbon, B_C:C_T, is suggested as a criterion for estimating the oxidizability of boron carbide. The higher the ratio, the better boron carbide resists oxidation. Orig. art. has: 3 figures, 1 formula, and 3 tables.

ASSOCIATION: none

SUBMITTED: 20Jan63

DATE ACQ: 28Apr64

BNCL: 00

SUB CODE: CH.HA

NO REF SOV: 006

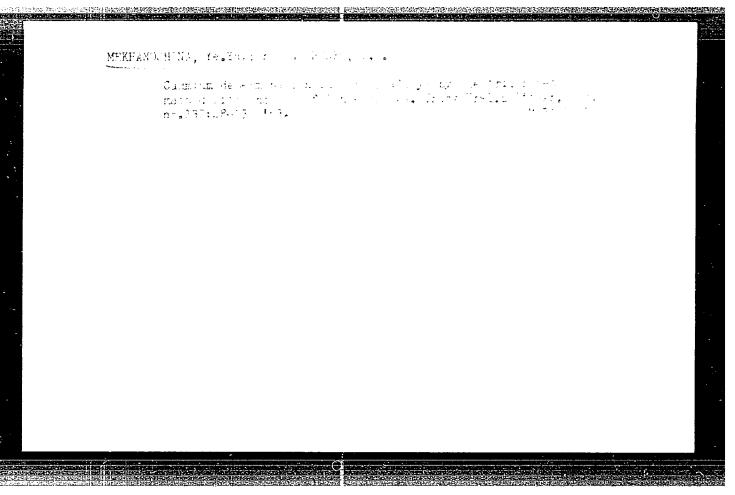
OTHER: 003

Card 2/2

KALINICHENKO, I.I.; STYUNKEL!, T.B.; MIKHALEVA, Z.A.; MEKHANGCHIDA,
YeaYa.

Complexometric determination of zinc and nickel in nickel-alive:
type alloys, in one batch. Trucy Ural.politekn.inst. no.1,6:5457 *63.

YIFA 17:20)



L 13787-65 AFVL/ASD(a)-5 ACCESSION NR: AP4047246

S/0142/64/007/004/0497/0593

AUTHOR: Mekhantsev, Ye. B.

B

TITLE: Calculation of direct conductance (capacitance) in some two-dimensional

systems

SOURCE: IVUZ. Radiotekhnika, v. 7, no. 4, 1964, 497-503

TOPIC TAGS: conducting film, film conductance, film capacitance

ABSTRACT: A method is offered for the calculation of direct conductances in symmetrical 3-conductor and asymmetrical 2-conductor systems in which the flat conductors lie at the base of a rectangular or strip-shaped backing. By the conformal mapping method and some additional operations, the 2-conductor asymmetrical system is turned into a symmetrical coplanar set of conductors. Formulas for direct conductance published elsewhere are applicable to this set. The 3-conductor symmetrical system problem is treated as two subproblems:

Card 1/2

L 13787-65 ACCESSION NR: AP4047246

a) determination of conductance between the central electrode and two outer electrodes and b) determination of conductance between two outer electrodes. This approach reduces the system to the 2-conductor case already resolved. The same method and design formulas are applicable to the calculation of interelectrode capacitance provided the conductivity of is replaced with the dielectric constant & in appropriate formulas. The method can be used for evaluating the mutual effects of electrodes and shield. Orig. art. has: 5 figures and 25 formulas.

ASSOCIATION: none

SUBMITTED: 27Jul63

ENCL: 00

SUB CODE: EC

NO REF SOV: 009

OTHER: 000

Card 2/2

ACC NR: AP6027235

SOURCE CODE: UR/0109/66/011/008/1436/1440

AUTHOR: Kolesov, L. N.; Mekhantsey, Ye. B.; Kil'metov, R. S.;

Shapovalov, V. I.; Zhuravskiy, V. L.

ORG: none

TITLE: Calculation of characteristics of distributed R-C-NR-structures having p-n-junction-type nonuniform capacitance

SOURCE: Radiotekhnika i elektronika, v. 11, no. 8, 1966, 1436-1440

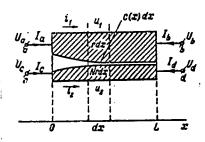
TOPIC TAGS: pn junction, circuit microminiaturization

ABSTRACT: A complete approximate matrix is set up of admittances of a non-uniform structure (see figure) consisting of two resistances separated by a reverse-biased p-n junction. In practice, such a structure has been used in component microminiaturization, and one of the resistances has been represented

Card 1/2

UDC: 539.293.011.41

ACC NR: AP6027235



by a semiconductor supporting base. Although several nonuniform structures have been analyzed by other researchers (e.g., P. S. Castro, Proc. Nat. El. Conf., v. 19, 1963), they cannot represent the p-n junction. The transient response of such a p-n-junction-containing structure is investigated using differential and integral circuits as examples. The transient-response theoretical curves are corroborated by experimental curves obtained from a p-Ge

specimen acted upon by 30-nsec pulses. Orig. art. has: 4 figures and 17 formulas.

SUB CODE: 09 / SUBM DATE: 30 Mar65 / ORIG REF: 000 / OTH REF: 003

Card 2/2

NEVSTRUYEVA, Ye.I.; MEKHDI, A.S.

Precipitation of salts on heating surfaces at high thermal loads. Teplofiz. vys. temp. 2 no.5:809-816 S-0 '64.

(MIRA 17:11)

1. Nauchno-issledovateliskiy institut vysokikh temperatur.

MEKHDI AL! SHEYKH ALI, inzh.

[Examination of cracking resistance and rigidity of bent precast prestressed concrete units. Author's abstract of a dissertation presented for the academic degree of Candidate of Technical Sciences] Issledovania treshchinostoikosti i zhertkosti izgibaemykh sbornomonolitnykh predvaritel no napriazhennykh zhelezobetonnykh elementov. Avtoreferat dissertatsii, predstavlennyi na solskania kandidata takhnicheskikh nauk. Moskva, Mauchno-issl. in-t betona i zhelezobetona, 1964. 15 p. (MIRA 18:7)

[2]在1000mm20144211100mm2014212000mm20142000mm2014200mm20142000mm2014200mm2014200mm2014200mm2014200mm2014200mm L 40385-66 ENT(1) WW/JT/GD ACC NR (A)AT6021834 SOURCE CODE: UR/0000/65/000/000/0042/0051 111 AUTHOR: Styrikovich, M. A.; Nevstruyeva, Ye. I.; Mekhdi, A. S. 8+1 ORG: High Temperature Research Institute. Moscow Power Institute (Nauchno-issledovatel'skiy institut vysokikh temperatur pri Moskovskom energeticheskom institute) New investigations of mass transfer at high heat fluxes TITLE: SOURCE: Teplo- i massoperenos. t. III: Teplo- i messoperenos pri fazovykh prevrashcheniyakh (Heat and mass transfer. v. 3: Heat and mass transfer in phase transformations). Minsk, Nauka i tekhnika, 1965, 42-51 TOPIC TAGS: mass transfer, heat flux, thermodynamic analysis ABSTRACT: The experimental work described in the article was based on the fact that, for a solution of a salt which has a negative temperature solubility coefficient, precipitation of the solid phase takes place on the heating surface near which the formation of a supersaturated solution is possible. The experiments were carried out in a cylindrical glass tube placed between two Textolite headers. The heating surface was mounted in the bottom header. In one variation it consisted of a Card 1/2

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ACC NR: AT6021834

Nichrome plate heated by alternating current, and in a second variation it consisted of a massive block of copper whose side walls were heated with an electric heater; in the latter case, the heat was transmitted by the mal conductivity. Experiments were carried out with forced motion of the liquid in the channel at a velocity of 0.5 meters/sec and at two pressures (atmospheric and of the order of 9 bars). Tests were made first with distilled water and then with solutions of calcium sulfate of determined concentrations. Experimental results are exhibited in graphic form. The results show that the concentration at the start of unlimited growth of the amount of salt deposited depends only slightly on underheating of the liquid up to the saturation temperature, but that it depends to a large degree on the magnitude of the heat flux, particularly with forced motion of the liquid. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 09Dec65/ ORIG REF: 005

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"Investigation of the Deformation of Commercial Iron." Cand Tech Sci, Inst of Metallury them A. A. Baykov, Acad Sci 155%, Noscow, 1955. (AL, ...o 13, Mar 55)

SC: Pum. ...o 670, 23 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

MEKHED, G. N.

137-1957-12-25095

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 310 (USSR)

AUTHOR: Mekhed, G. N.

TITLE: The Effect of Chemical Composition on the Plasticity of machine in

..tc: 1 (Vliyaniye khimicheskogo sostava na plastichnosť

tekhnicheskogo zheleza)

PERIODICAL: V sb.: Prochnost' metallov. Moscow, AN SSSR, 1956.

pp !83-189

ABSTRACT: An investigation of the influence of S and O2 content on the

properties of low-carbon(structural) steel

namely: ψ in dynamic tension tests, and a_k at temperatures between 20° and 1200°. Specimens were cut from killed and low-carbon rimmed steal and from ingots of electrolytic Fe, both in cast and deformed states. Chemical composition and mechanical properties of heats investigated are presented, as well as curves showing ψ and a_k for cast and deformed low-cirbon

as a function of temperature. The Author points out that the presence of S and O_2 in amounts exceeding 0.01 percent and 0.04 percent, respectively, is to be regarded as the cause of

Card 1/2 brittleness of low-carbon steel in the temperature range between 8500

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The Effect of Chemical Composition on the Plasticity (cont.)

and 1050°. Preliminary deformation improves the plastic properties of low-carbon steel.

F N

 Steel-Deformation-Test results 2. Steel-Plasticity-Chemical factors 3. Steel-Properties-Effects of sulfur 4. Steel-Properties-Effects of dioxide

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