S/020/62/146/006/002/016 B172/B186

A generalization of a theorem by ...

accordingly (in a domain G with the boundary  $\Gamma$ ). The main result is as follows:  $\lambda_n$  and  $\mu_n$  be the eigenvalues of (3') and (3) respectively.

If  $\sum_{n=1}^{\infty} (\mu_n - \lambda_n)$  converges and if  $\mu_1 = \lambda_1$ , V(x) in G is identically equal to zero.

ASSOCIATION: Moskovskiy řiziko-tekhnicheskiy institut (Moscow Physico-technical Institute)

PRESENTED: May 7, 1962, by I. G. Petrovskiy, Academician

SUBMITTED: May 5, 1962

Card 2/2

SHOSTAKOVSKIY, M.F.; KUZNETSOV, N.V.; YAN CHZHE-MIN' [Yang Chamin]

Synthesis of ethers and esters of 1,2-dioxyethylene and their conversions.

Izv.AN SSSR.Otd.khim.nauk no.9:1695-1696 S \*62. (MIRA 15:10)
(Ethylene glycol) (Ethers) (Esters)

SHOSTAKOVSKIY, M.F.; KUZNETSOV, N.V.; YAN CHZHE-MIN' [Yang Che-min]

Some conversions of 1,4-dioxene. Izv. AN SSSR.Otd.khim.nauk no.10: 1859-18600 '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Oxirene)

SHOSTAKOVSKIY, M. P.; KUZHETSOV, M. V.; YAN CHZHE-MIN' [Yang Chê-min]; BALEZINA, G. G.

Some conversions of acetals of alkoxy- and bromoacetaldehydes. Isy. AN SSSR Otd. khim. nauk no.12:2220-2223 D 162.

(MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Acetals) (Acetaldehyde)

KUZNETSOV, N.V.; KEYKO, N.A.; BURNASHOVA, T.D.

Some new transformations of ethoxyacetaldehyde. Izv.AN SSSR.Otd. khim.nauk no.3:553-554 Mr 163. (MIRA 16:4)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Acetaldehyde)

#### KUZNETSOV, N.V.; KOMAROVA, L.I.; SAFRONOVA, L.P.

3,5-Dinitrobenzoyl hydrazide, a new reagent for a carbonyl group. Izv. AN SSSR. Otd.khim. nauk no.4:750-752 Ap 163. (MIRA 16:3)

1. Irkutskiy institut organizheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Carbonyl group)

(Benzoic acid)

SHOSTAKOVSKIY, M.F.; KUZNETSOV, N.V.; ZARETSKAYA, Ya.B.

New method of synthesizing unsymmetrical acetals. Izv.AN SSSR Otd.khim.nauk no.5:922-923 My '63. (MIRA 16:8)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. (Acetals)

KUZNETSOV, N. V.; BURNASHOVA, T. D.; NIKIFOROV, A. A.; KEYKO, N. A.

Synthesis of glyoxal and glycolic acid. Izv AN SSSR Ser Khim no. 4:692-695 Ap '64. (MIRA 17:5)

1. Irkutskiy institut organicheskoy khimii AN SSSR.

#### KUZNETSOV, N.V.

Seminar for raising qualifications of engineers of the State Institute for the Design and Planning of Roads, Industrial Establishments and Structures. Avt.dor. 22 no.2:31 F 159. (MIRA 12:2)

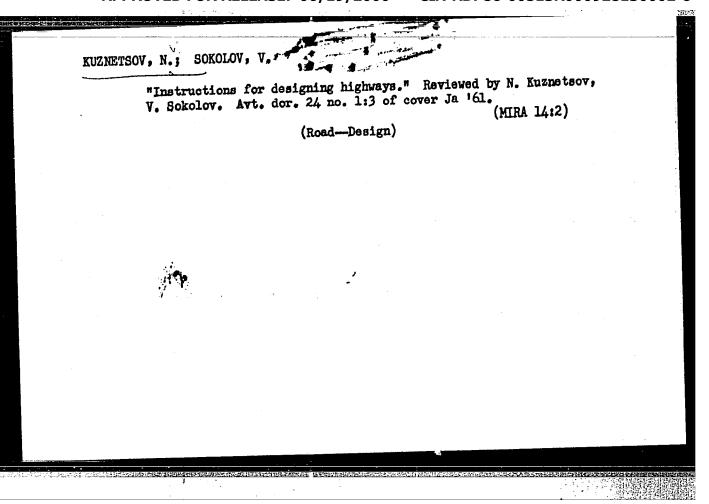
(Road construction -- Study and teaching)

KUZNETSOV, N.V., otv. za vypusk; GALAKTIONOVA, Ye.N., tekim. red.

[Standard cross-section profiles of earth roadbeds, stabilizing elements, and road dressings for rural roads] Tipovye poperechnye profili semlianogo polotna, kanstruktsii ukreplenii i dorozhnykh odezhd dlia sel'skikh dorog. Moskva, Avtotransizdat, 1961. 64 p. (MIRA 14:7)

1. Moscow. Gosudarstvennyy institut po proyektirovaniyu avtorementnykh zavodov, garazhey, masterskikh i avtoeksploatatsionnogo khozyaystva.

(Road construction)



KUZNETSOV, N.V., otv. za vypusk; DEBERDEYEV, B.S., red.; BODANOVA, A.P., tekhn. red.

[Handbook for heads of survey teams]Sprayochnoe posobie nachal'nikam izyskatel'nykh partii. Moskva, Avtotransizdat, 1962. 310 p. (MIRA 16:1)

1. Moscow. Gosudarstvennyy institut po proyektirovaniyu avtoremontnykh i avtotransportnykh predpriyatiy.

(Roads—Surveying)

#### KUZNETSOV, Nikolay Vasil'yevich

[Animals and birds of Yaroslavl Province] Zveri i ptitsy IAroslavskoi oblasti. IAroslavl', OGIZ, 1947. 65 p. (MIRA 14:11) (Yaroslavl Province—Natural history)

KUZHETSOV, N. V.

Turov, S. S. and <u>Kuznetsov</u>, N. V. "Zoological observations during the filling of the Rybinsk reservoir". Okhrana prirody, 1948 (on the cover: 1949), No. 6, p. 31-35.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928130002-6"

KUZNETSON, N. V.

KUZNETSOV, N.V.; PLAVIL'SHCHIKOV, N.N.; GOLUBKOVA, V., redaktor;

[Preparation of biological groups and dioramas for museum exhibits of natural history] Isgotovlenie biogrupp i dioram dlia museinoi ekspositsii prirody. Moskva, Gos. isd-vo kul'turno-prosvetitel'nei lit-ry, 1953. 171 p. (MIRA 7:7)

1. Nauchno-issledovatel'skiy institut krayevedcheskoy i muzeynoy raboty.

(Zoological specimens -- Collection and preservation) (Watural history museums)

SR / Fram Animals. General Problems

The Jour: Ref Zhur-Biol, No 5, 1958, 21417 Merkur yeva Ye K., Kudryashov N. V., Zvaygzne G. F.,

Author

The Breeding of Cattle of the Jersey Breed (Razvedeniye krupnogo rogatogo skota dzherzeyskoy porody) Inst

Title

Orig Pub: Zhivotnovodstvo, 1957, No 6, 60-69

Abstract: In order to increase the fat-milk production of East Friesian crossbred cattle by way of interbreeding Friesian crossbred cattle by way of interpreeding with sires of the Jersey breed, Jerseys were brought with sires of the Jersey breed, Jerseys were brought into the USSR in 1955. 110 heifers and 3 young bulls were sent to the state farm "Nekrasovo" in the Ryamere sent to the state farm "Nekrasov sed early sex maturity, a characteristic trait of

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KUZNETSOV WALLOWS Vanil wavich; IL'ICHEVA, Nonna Vladimirovna; PLAVIL'SHCHIKOV, N.N., doktor biolog.nauk, red.; BENENSON, A.N., red.; MEDVEDEVA, R.A., tekhn.red.

[Nature in a regional museum] Priroda v kraevedcheskom musee. Moskva, Isd-vo "Sovetskaia Rossiia," 1958. 76 p. (MIRA 12:2) (Yaroslavl -- Natural history museums)

KUZNETSOV, N.V.; MAKKOVEYEVA, I.I.; YAKOVLEV, K.P., red.; KHODINOVA, V.P., tekhn.red.

[Animals of Yaroslavi Province] Zhivtnyi mir IAroslavskoi oblasti. IAroslavi, IAroslavskoe knizhnoe izd-vo, 1959.
226 p. (MIRA 13:3)

(Yaroslavl Province -- Zoology)

KUZNETSOV, N. V.: Master Tech Sci (diss) -- "Problems in the synthesis of kinematic schemes of hydromechanical transmissions for thermal locomotives".

Moscow, 1958. 14 pp (Min Transportation USSR, Moscow Order of Lenin and Order of Labor Red Lenner Inst of Railroad Transport Engineers im I. V. Stalin),

150 copies (KL, No 3, 1959, 110)

SHISHKIN, K.A., prof.: [deceased]; DOMEROVSKIY, A.B., dotsent;

TRET'YAKOV, A.P., dotsent; SOLOMENNIKOV, V.A., dotsent;

BOGOYAVLENSKIY, V.N., dotsent; STEPANOV, A.D., doktor tekhn.

nauk; IVAKOV, V.N., prof.; KUZNETSOV, N.V., kand.tekhn.nauk;

SLITIKOV, P.A., prof., doktor tekhn.nauk, retsenzent; GAKKEL',

Ie.Ya., dotsent, doktor tekhn.nauk, retsenzent; PANSKIY, V.M.,

dotsent, kand.tekhn.nauk, retsenzent; LUGININ, N.G., kand.tekhn.

nauk, red.; KHITROV, P.A., tekhn.red.

[Diesel Locomotives] Teplovosy. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniis, 1960. 340 p.

(MIRA 14:1)

1. Leningradskiy ordens Lenins institut inzhenerov zheleznodorozhnogo transports im. skademiks V.N.Obraztsova (for Slitikov, Gakkel',
Panskiy).

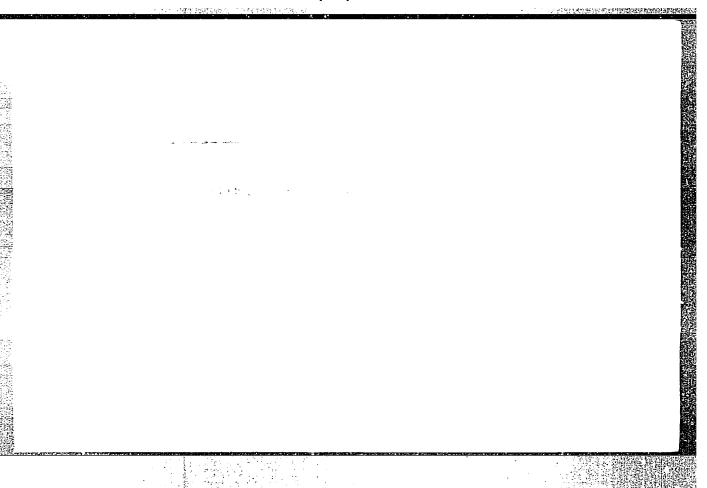
(Diesel locomotives)

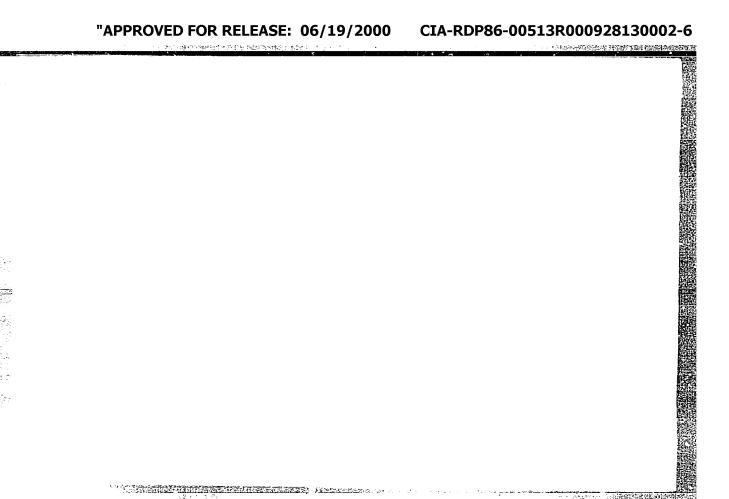
KUZNETSOV, N.V.; FEDOSOV, B.V.

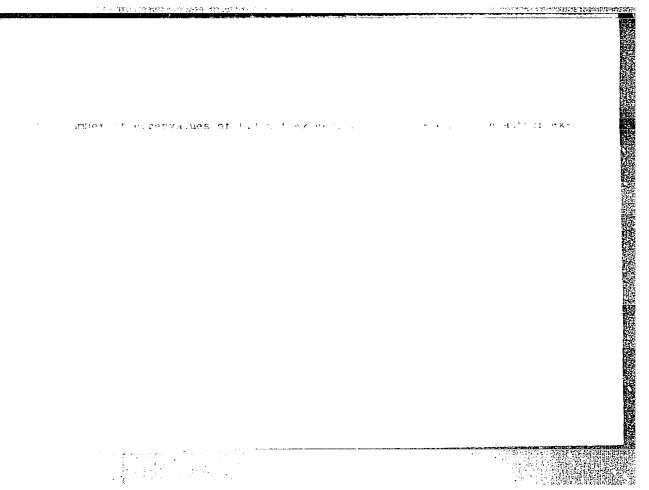
Asymptotic formula for the eigenvalues of a circular membrane.

Dif. urav. 1 no. 12:1682-1685 D '65. (MIRA 18:12)

1. Moskovskiy fiziko-tekhnicheskiy institut. Submitted October 1964.







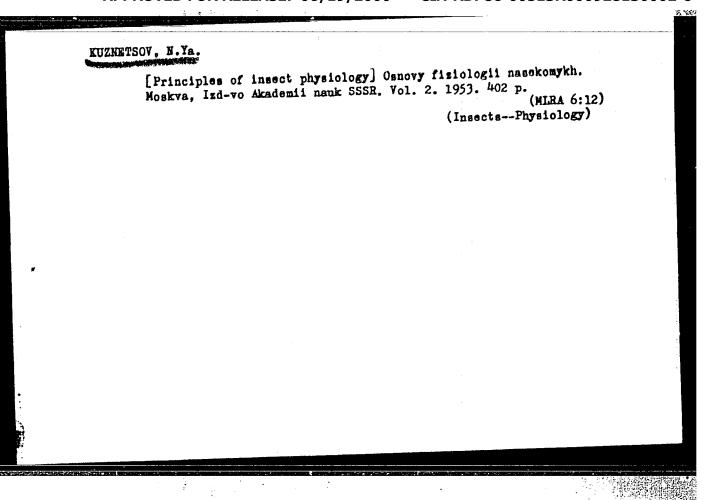
#### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928130002-6

HZTEPSOV. H. Ya.

Kuznetsov, N. Ya. - "Regularities in the postembryonic growth of caterpillars of the Dimorpha (Endromis) versicolor Linn type," In symposium: Pasyati Akad. S. A. Zernova, Moscow-Leningrad, 1948, p. 335-45 - Bibliog: 17 items

SO: U-3600, 10 July 53, (Letopis 'Zmurnal 'nykh Statey, No. 6, 1949).



KUZNETSOV, N.Ye. (Novokuznetsk)

Calculation of electromagnetic slide clutches with nonferromagnetic rotors. Avtom. i telem. 25 no.44585-588 Mr 164. (MIRA 17:6)

KHRUSTALEV, I.K., dotsent; KUZNETSOV, N.Yc., dotsent; TURNAYFV, P.I., inzh.

Automatic drive of mine holding machines with electromagnetic clutches. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:180-184 165. (MIRA 18:9)

1. Sibirskiy metallurgicheskiy institut imeni Ordzhonikidze. Rekomendovana kafedroy obshchey elektrotekhniki Sverdlovskogo gornogo instituta.

### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928130002-6

Agriculture - Study and Teaching

Organizing the computation of the work of leading formers, Dost. sel'khoz. No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

KUZNETSOV, N.YE.

36867. Ob urovne krovyanogo davleniya v zharkom klimate i znachenii poslednego dlya techeniya gipet'onicheskoy bolezin. Trudy Uzbek, gos. nauch.-issled. in-ta kurortologii i fizieterapii im. Semashko, ab. 11, 1949, c. 294-99

SO: Letopis' Zhurnal'Nykh Statey, Vol. 50, Moskva, 1949

KUZNETSOV, N.Ye., inzh.; BURATOV, G.N., inzh.; BOYKO, Yu.P., inzh.; FEDOROVSKIY, V.V., inzh.

Radio control of switches. Zhel.dor.transp. 43 no.6:73 Je '61. (Railroads—Switching—Radio control)

#### KUZNETSOV, N.Ye.

Experience in coordinated operations of the railroad transportation of the "Bokovoantratsit" Trust and the Antratsit Station of the Donests Railroad. Trudy MIIT no.143:120-133 \*62. (MIRA 15:7)

1. Glavnyy inzhener Upravleniya promyshlennogo transporta i planirovaniya perevozok Luganskogo sovnarkhoza.

(Rel lroads—Freight) (Donets Basin—Mine railroads)

GOLUBEV, T.M., doktor tekhn.nauk, prof.; CHELYSHEV, N.A., kand.tekhn.nauk, dots.; KAFTAHOV, M.P., insh.; KUZNETSOV, N.Ye., inzh.; BOYCHENKO, S.M., insh.; ZHURAVLEV, M.A., insh.

Operations of a forge blooming mill with use of automatic control. Izv.vys.ucheb.sav.; chern.met. 2 no.7:59-74
J1 159. (MIRA 13:2)

1. Sibirskiy metallurgicheskiy institut. Rekomendovano kafedroy obrabotki metallov davleniyem Sibirskogo metallurgicheskogo instituta.

(Rolling mills) (Automatic control)

IEBEDEV, V., kand. med. nauk; KUZNETSOV, O., vrach-psikholog
Silence. Av. i kosm. 47 (ekstr. vyp.):59-64 O '(4.

(MIRA 18:3)

L 07850-67 EWT(1) SCTB DD ACC NR: AP6028039	SOURCE CODE: UR/0025/66/000/005/0111/0113
THOR: Kuznetsov, O. (Psychiatrist); L	Lobedov, V. (Candidate of medical sciences)
G: none	27
TLE: Isolation	Z
OURCE: Nauka i zhizn', no. 5, 1966, 11	111-113
PIC TAGS: isolation test, nervous sys	stem, psychologic stress, psychopathology
allucinations reported by astronauts and colonged isolation and lack of activity arious experiments have been conducted nambers with the subject isolated from anse of time, some develop anxieties, a allucinations. These states in themselvey may appear in healthy individuals accurate, visual or auditory perception, ariods of isolation the psychic state of a tigue, anxiety and fear. Another types	on the literature discusses the phenomenon of and experimental subjects under conditions of ty. To determine the nature of this phenomenon, it in mockup space capsules and soundproof test mexternal stimuli. Some subjects lose their and others experience delusions, illusions and others are not symptomatic of mental disease as when some factor e.g. lighting, prevents means of the person is very important, particularly per of hallucination found to appear is ental images becoming so vivid that they become

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mental images (recing the former appearies explaining ryous system and by become hallucinal lucinations. Pos	bject. The vividness of ting on the sensory orga- collections, wishes, ide pear very pale and indis the origin of hallucinat rain disorders induced b tions; and, in turn illus sibly, hallucinations fo Further study of the pro- ns engaged in monotonous	ns. Under no as) is damped tinct by comp ions are not y prolonged i ions and deluund in mental blem is vital	by numerou arison. Th incompatible solation, versions may be illnesses of for aviati	s real sti e two diff e. With h ivid ments ecome also have on and spa	muli Ferent higher hi images two
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# KUZNETSOV, O.A.

Temperature waves in the Atlantic Ocean according to the observations of the research ship "Sedov" in March-May 1958. Trudy Inst.

Okean. 52:160-165 '61. (MIRA 14:6)

(Altantic Ocean—Ocean temperature)

(Waves)

8/2566/64/064/000/0154/0157 ACCESSION NR: AT4040587 AUTHOR: Kuznetsov, O. A. TITLE: Buoy for undistorted meteorological measurements at SOURCE: AN SSSR- Institut okeanologii. Trudy\*, v. 64, 1964. Issledovaniya Indiyakogo okeane; 33 reys e/s "Vityaz" (Investigations Issleof the Indian Ocean; 33d voyage of the expeditionary vessel "Vityaz"), TOPIC TAGS: meteorological bucy, semiautonomous buoy, Soviet research 154-157 ship, oceanography, meteorological instrumentation ABSTRACT: In 1960 the Institut okeanologii AN SSSR (Institute of Oceanology, Academy of Sciences SSSR) developed a semisutonomous À meteorological buoy for the measurement over the open sea of the gradients of meteorological elements in the surface atmospheric laygradients or meteorological elements in the surface atmospheric layer. The buoy, modeled after a German unit built in Kiel in 1957, consists of a foam plastic (PS-1) cone-shaped float (height, 230 cm; weight, 350 kg; volume, 1.4 m³; specific weight, 0.13), a shock-absorved bing device, and an 8.5-m aluminum and steel mast with 5 radiating bing device, and an 8.5-m aluminum and steel mast with 5 radiating SI SU. arms (130, 110, 90, 70, and 50 cm long) which extend outward 1, 2, Cord 1/2 ATD Card

PDP86-00513R00092813

KUZNETSOV O.A.; FILIPPOV, I.A.

Gradient apparatus for measuring wind velocity in the lower part of the surface air layer above the sen. Ckeanologiia 5 no.1:166-169 165. (MIRA 18:4)

1. Institut okeanologii AN SSSR.

20889-66 EVT(1)/EVT(m)/ETC(f)/EVIC(m)/FCC/ DS/GW

ACC NR: AP6002558

SOURCE CODE: UR/0286/65/000/023/0056/0056

AUTHORS: Osipova, N. Ye.; Osmolovskaya, T. N.; Kuznetsov, O. A.; Grafov, A.

Ya.; Davydov, Yu. S.

ORG: none

TITLE: Method for fabricating moisture-sensitive elements for electrolytic air humidity detectors. Class 42, No. 176708

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 56

TOPIC TAGS: atmospheric humidity, electrolytic cell, moisture measurement

ABSTRACT: This Author Certificate presents a method for fabricating moisturesensitive elements for electrolytic air humidity detectors, based on the utilization of the change of resistance of moisture sensitive films with humidity. To
increase the sensitivity and stability while widening the measurement range, the
sensitive element is in the form of an insulated shell with parallel metallic
electrodes wound on it. The element is placed in a hot aqueous solution with a
temperature of no less than 95C containing l-4% sodium chloride, 38--68% of

Card 1/2

UDC: 621.3.083.8.002.2

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Rochelle salt, 0.1% propantriol, and 0.1% formic acid amide. The element removed from the solution, and the electrodes are heated to a temperature 75-800 by an ac current for 5-6 min.	is of			
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L 22933-66 EVT(1)/FCC CW

ACC NR: AT6012604

SOURCE CODE: UR/2566/65/078/000/0179/0191

AUTHOR: Kuznetsov, O. A.

17

ORG: Institute of Oceanography (Institut okeanologii)

0+1

TITLE: Formation of the wind profile in the surface boundary layer of the air above the surface of the sea

SOURCE: AN SSSR. Institut okeanologii. Trudy, v. 78, 1965. Issledovaniya atmosfernoy tsirkulyatsii i prizemnogo sloya vozdukha nad Tikhim i Indiyskim okeanami (Studies of atmospheric circulation and the boundary layer of air over the Pacific and Indian Oceans), 179-191

TOPIC TAGS: micrometeorology, wind, wind gradient, oceanography, atmospheric boundary layer, near water layer, ocean roughness, buoy anemometer

ABSTRACT: Data obtained on the 35th voyage of the Vityaz' in the Indian Ocean (1962) and a minor Black Sea expedition (1963) were used to study wind profiles over the surface of the sea. Although there is no single optimum method of obtaining these data, the most representative data were obtained from two types of buoys: 1) Froude-type buoys which were used in the Black Sea (measurements could not be taken,

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#### ACC NR: AT6012604

however, below 1-1.5 m above the surface in "fresh-wind" weather) and 2) mushroom-shaped buoys equipped with induction anemometers which moved up and down with the waves (wind speeds continuously recorded on tape at several levels by a POB-14 oscillograph). These records generally indicated a fundamental period corresponding to the period of the waves. In good weather on the Black Sea, wind speeds could be measured 20 cm above the water surface; the anemometers were installed at levels of 43, 93, 163, and 277 cm. It was found that the reliability of anemometer readings was affected by time-dependent calibration of the anemometers. The results are discussed and presented in a table of characteristics of low-frequency wind fluctuations over the surface. Several time-wise wind profiles were also constructed. The difference in periods and amplitudes of low-frequency fluctuations was clear, being identical at most of the levels. The use of induction anemometers also permitted a limited study of wind profiles above wave crests and troughs, which showed that the wind profiles above wave crests were steeper than the average profile for a given interval of time and were more gently sloping over the troughs. Values of parameters of roughness (of the surface) were obtained by interpolating the profiles to "zero" velocities and were tabulated with wind velocity at the 10-cm level plotted as a function of the roughness parameter. The relationship between changes in the roughness parameter and changes in THE STORY OF THE PARTY THE

**Card** 2/3

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	ACC NR: AT6012604  wind speed was investigated. In spite of great scattering of graphed points, an overall pattern was established in which the roughness parameter increased with increasing wind speed and vice versa. Orig. [20] art. has: 6 figures and 4 tables.	
-	SUB CODE: 04/ SUBH DATE: none/ ORIG REF: 005/ OTH REF: 001 ATD PRESS: 4238	
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## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928130002-6

ANDRONOV, V.V., kapitan 3-go ranga; KUZNETSOV, O.A., kapitan-leytenant

Our experience in training sailors and petty officers aboard
a ship. Mor. sbor. 47 no.12:50-52 D \*63. (MIRA 18:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928130002-6"

KUZNETSOV, Cleg Andreyevich; GOLUB', Boris Ivanovich;

REKHOVEKIKH, Vadim Fedoseyevich; MIKHEL'EN, A.I., red.

[Automatic temperature control in industry; survey of foreign engineering] Avtomaticheskii kontrol temperatury v promyshlennosti; obzor zarubezhnoi tekhniki. Moskva, (MIRA 17:7)

KUZNETSOV, Olog Andreyevich; KOPYTOV, I.P., red.

[Automatic control of the interface level of two media] Avtomaticheskii kontrol' urovnia razdela dvukh sred.

Moskva, Energiia, 1964. 85 p. (Biblioteka po avtomatike, no.112)

(MIRA 17:12)

#### KUZNETSOV, O.A.; POPOVA, N.A.

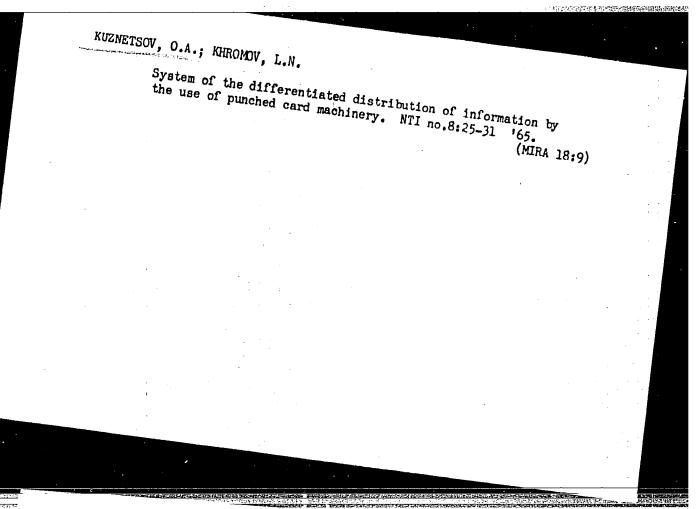
Experience in using the polarographic method in the analysis of raw minerals. Zav. lab. 28 no.9:1147-1148 62. (MIRA 16:6)

1. Zaveduyushchiy metodicheskim kabinetom TSentral'noy laboratorii Krasnoyarskogo geologicheskogo upravleniya (for Kuznetsov).

2. Starshiy inzh.-khimik TSentral'noy laboratorii Krasnoyarskogo geologicheskogo upravleniya (for Popova).

(Krasnoyarsk-Minerals-Analysis)

(Polarography)



L 15954-66 JXT(BF) ACC NR: AP6003750 SOURCE CODE: UR/0315/65/000/008/0025/0031 AUTHOR: Kuznetsov. O. A.; Khromov, L. N. ORG: none TITLE: A system of differential information classification using computer punchers B SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 8, 1965, 25-31 TOPIC TAGS: information processing, punched card, data processing equipment, cost ABSTRACT: An experimental mechanized system for differential information classification is described. It is designated for the continuous processing and differential classification, by processors, of the information flow according to requirements. Incoming materials are coded using the UDC classification (up to 20 signs) while the output data of a document and coded using the UDC classification (up to 20 signs) white the output data of a document and addresses of the processors are given in digital codes. The search is carried out by means of computer puncher equipment processing 80 column punch cards. The system accepts simultaneously the information and processor request flows. The paper describes in detail the ten different steps of information processing, and estimates, on the basis of a six-Card 1/2 UDC: 002.5:681.141

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KUZNETSOV, O.D.; VOLKOV, A.M.

Apparatus for studying the efforts of filers. Gig. i sen. 21 no.9: 71-73 & '56. (MIRA 9:10)

1. Iz TSentral'noy nauchno-issledovatel'skoy laboratorii gigiyeny i epidemiologii Ministerstva putey soobshcheniya SSSR.

(MUSCLES, physiol.

determ. of stress in filers with special apparatus)

### KUZNETSOV, O.A.

Aerodynamic roughness of the sea surface. Trudy Inst. okean. 72:114-138 '63. (MIRA 17:8)

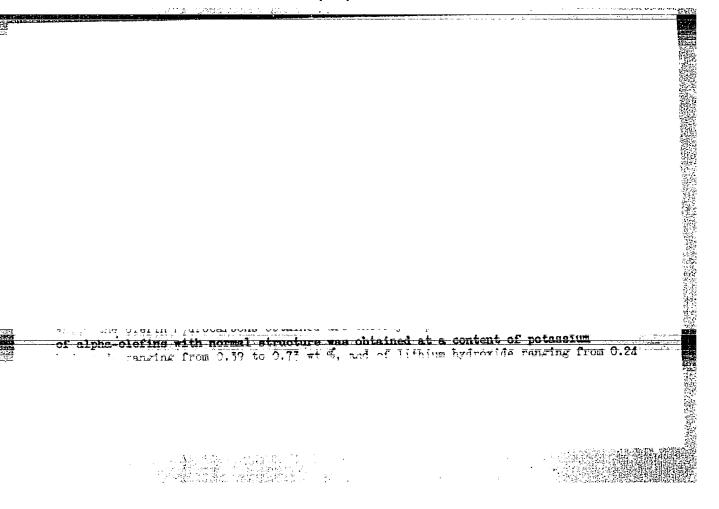
IVANOV, D.A.; KUZNETSOV, O.I.; ZAKHAROV, A.N., inzh.; KLYUCHEV, V.M.; KITOV, P.V.

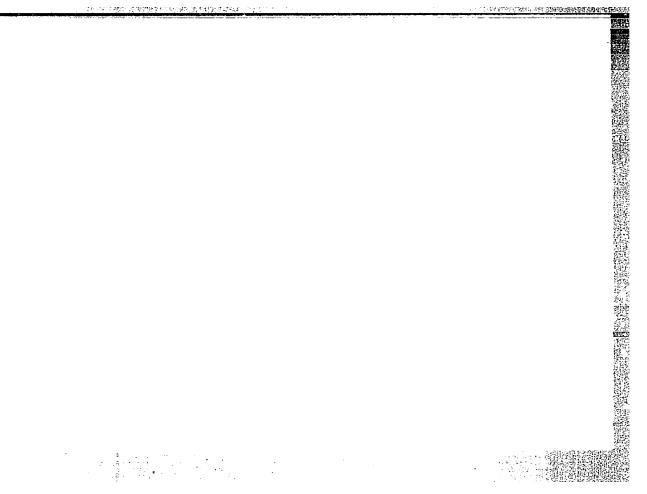
Replies to S.M.IAkushev's article "What we expect from industry."

Vest. sviazi 22 no.10:25-26 0 '62. (MIRA 15:11)

1. Nachal'nik Leningradskoy oblastnoy direktsii radiotranslyatsionnoy seti (for Ivanov). 2. Starshiy inzh. vnutrirayonnoy svyazi Tomskoy kontory svyazi (for Kuznetsov). 3. Nachal'nik laboratorii Gor'kovskoy oblastnoy direktsii radiotranslyatsionnoy seti (for Klyuchev).
4. Nachal'nik Khar'kovskoy direktsii radiotranslyatsionnoy seti (for Kitov).

(Electric equipment industry)
(Radio-Equipment and supplies)
(IAkushev, 5.M.)





### KUZNETSOV, O.K.; LUZYANINA, T.Ya.

Protective effect of homologous and heterologous immune sera in experiments on tissue cultures. Vop. virus. 10 no.3:333-338 My-Je '65. (MIRA 18:7)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

DOLGIN, I.M., kand.geograf.nauk; NIKOLAYEVA, T.V., mladshiy nauchnyy sotrudnik; BASOVA, L.G., mladshiy nauchnyy sotrudnik; VORONTSOVA, L.I., mladshiy nauchnyy sotrudnik; DANILOVA, V.M., mladshiy nauchnyy sotrudnik; KOVROVA, A.M., mladshiy nauchnyy sotrudnik; SERGEYEVA, G.G., mladshiy nauchnyy sotrudnik; SMIRNOVA, V.N., mladshiy nauchnyy sotrudnik; KHARITONOVA, L.I., mladshiy nauchnyy sotrudnik; ALEKSANDROV, V.F., aerolog; KUZNETSOV, O.M., aerolog; MAYOROVA, L.A., aerolog; POSTNIKOVA, D.G., aerolog; SMIRNOVA, I.P., aerolog; VASIL'YEVA, R.P., tekhnik; MEDNIS, L.V., tekhnik; KHARITONOVA, V.A., tekhnik; KHRUSTALEVA, N.K., red.; DROZHZHINA, L.P., tekhn.red

[Aerological observations of Arctic stations during the period from June 30 through December 31, 1957] Aerologicheskie nabliudeniia poliarnykh stantsii s 30 iiunia po 31 dekabria 1957 g. Leningrad, Izd-vo "Morskoi transport," 1961. 994 p. (Minicheskii i antarkticheskii nauchno-issledovatel'skii institut Trudy, vol.243)

(MIRA 14:11)

(Arctic regions-Meteorology-Observations)

24775 s/125/61/000/008/001/014 d040/d113

12300

AUTHORS:

Yerokhin, A.A., Bykov, A.N., and Kuznetsov, O.M.

TITLE:

Oxidation of manganese in basic electrode coatings

PERIODICAL:

Avtomaticheskaya svarka, no. 8, 1961, 13-19

TEXT: The oxidation of ferromanganese in mixtures with marble, fluorite, ferrosilicon and graphite as studied in experiments with specimens neated to 1000-1050° in a laboratory tube furnace. The quantity of Mn left non-oxidized was determined by methods proposed by V.S. Nagibin and A.V. Arkhipova, staff members of the chemical analysis laboratory of the Institut metallurgii im. A.A. Baykova (Institute of Metallurgy im. A.A. Baykov). The method consisted in treating specimens with a CuSO<sub>4</sub> solution and passing the metallic Mn into the solution according to the following reaction:

 $Mn + CuSO_4 = MnSO_4 + Cu.$ 

After heating the specimen, the losses in tempering and the quantity of metallic Mn were determined. According to these data, the marble dissociation Card 1/5

24775 S/125/61/000/008/001/014 D040/D113

Oxidation of manganese ...

degree (D) and the Mn oxidation degree ( ) were calculated. Argon shielding decreased Mr. oxidation (8); ferrosilicon had a noticeable effect in the case of fusion in a mixture with fluorite; graphite and ferrosilicon additions had only a slight effect in argon. Marble dissociation practically ended after suspension for 2-3 min at 1000°C, or 3-6 min at 850°C (Fig. 1). The Mr. oxidation reached its maximum after 2-3 min and remained unchanged The Mr. oxidation reached its maximum aloughout the percentage CaCo after further heating (Fig. 2). The value indicates the percentage (Mn) y and } increased proportionalratio in the mixture. In all experiments ly approximately according to the linear function but only to a certain & value, after which y ceased to increase in heating the specimen in argon as well as in air. This effect is explained by the action of CO2 forming during marble decomposition. Increased carbon content compared to the initial content was observed in matallic Mn nuggets that formed in mixtures with fluorite. The behavior of electrothermic ferromanganese (82% Mn, 1% C) was different from that of blast furnace-melted ferromanganese (71% Mn, 6.5% C), the summary oxidation rate of the former being lower than that of the latter. The peculiar behavior of coarse blast furnace ferromanganese (cessation in the increase in y when \$ > 1 and a secondary increase in

card 2/5

24775 S/125/61/000/008/001/014 D040/D113

Oxidation of manganese ...

when \$\approx 6\$) requires additional experimental investigations. The following conclusions are drawn: (1) On reheating a carbonaceous coating containing ferromanganese, CO<sub>2</sub> oxidizes 20-60% of the manganese during the decomposition of the carbonate; (2) The manganese oxidation degree (\$\gamma\$) in decompositions depends on the ratio between the carbonate and manganese similar conditions depends on the ratio between the carbonate and manganese contents (\$\xi\$) in the mixture. The \$\gamma\$ and \$\xi\$ values increase proportionally, but to a definite limit. The lower the \$\xi\$ value, at which the maximum Mn but to a definite limit. The lower the \$\xi\$ value, at which the maximum Mn oxidation degree for the given ferromanganese powder is reached, the higher is the rate of oxidation; (3) In oxidizing the electrothermic ferromanganese, the carbon content in the nonoxidized part of it increases in comparison with the initial carbon content. This may be explained by the thermodynamic stability of manganese carbide in the given conditions. There are 4 figures, 2 tables and 3 Soviet references.

ASSOCIATION: Institut metallurgii im. A.A. Baykova (Institute of Metallurgy im. A.A. Baykov)

SUBMITTED: December 31, 1960

card 3/5

30229

2300 1773

S/125/61/000/011/008/012 D040/D113

AUTHORS:

Yerokhin, A.A., and Kuznetsov, O.M.

TITLE:

Lowering the carbon content in weld metal when welding stain-

less steels

PERIODICAL: Avtomaticheskaya svarka, no. 11, 1961, 53-54

TEXT: Experimental data indicated that the increase in the carbon content in the weld metal produced by low-carbon electrode wires was caused by marble in the wire coating. This was substantiated in experiments with varying marble content and constant quantities of ferroalloys in nonoxidizing coating. It was shown that 0.06% carbon was contained in the weld metal when electrodes without marble in the coating or with 5 to 15% marble were used; 0.7% carbon was present when the coating contained 20% marble. The finally selected coating composition contains 10% marble and 11% deoxidizers (ferrosilicon and ferrotitanium) and is called UMET-8 (IMET-8). It has been tested on two wire grades - Cg -1% 18H 9T (Sv-1Kh18N9T) with 0.056% C and Cg-X18H 11M (Sv-Kh18N11M) with 0.37% C. IMET-8 coating is recommended for

Card 1/2

30229

S/125/61/000/011/008/012 D040/D113

Lowering the carbon ...

the following standard wires:  $C_{B}$ -02 X 19 H 9 (Sv-02 Kh19N9),  $C_{B}$ -04 X 19 H 9 (Sv-04 Kh19N9),  $C_{B}$ 04 X 19 H 9 C2 (Sv-04 Kh19N9S2),  $C_{B}$ -04 X 19 H 11 M 3 (Sv-04 Kh19N11M3) and other wires with specifications as per IOCT2246-60 (GOST 2246-60). The weight coefficient of the coating is 30-35%, which corresponds to a 0.9-1.1 mm coating layer depth on wire, 4 mm in diameter. IMET-8 electrodes are suitable for welding with direct current and reversipolarity. The proper current for electrodes, 4-5 mm in diameter, is 110-140 and 130-180 amp respectively. As short as possible are length is recommended. There are 6 Soviet references.

ASSOCIATION: Institut metallurgii im. A.A. Baykova (Institute of Metallurgy

im. A.A. Baykov)

SUBMITTED: April 4, 1961.

Card 2/2

\$/659/62/009/000/029/030

1003/1203

**AUTHORS:** 

Yerokhin, A. A., Kuznetsov, O. M., and Bykov, A. N.

TITLE

Arc welding of nickel-base heat-resisting alloys by means of molybdenum-alloyed elec-

trodes

**SOURCE** 

Akademiya nauk SSSR. Institut metallurgii. Issledovaniya po zharoprochnym splavam.

v. 9. 1962. Materialy Nauchnoy sessii po zharoprochnym splavem (1961 g.), 238-242

TEXT The resistance to cracking of welds made by 9M-435 (EI-435) and 9M-437 (EI-437) electrodes was investigated and as a result new electrodes were developed by alloyin the above with 18-20% of mo. The new electrodes made of the EI-435 alloy are called 10M (IMET-4M) and 10M (IMET-4P) and those made of the EN-437A (EI-437A) alloy are called 10M (IMET-7M). The mechanical properties and the mictrostructures are given of welds made with these electrodes. There are 3 figures and 2 tables.

Card 1/1

THE REPORT OF THE PARTY OF THE

ACCESSION NR: AP3012231

5/0135/63/000/011/0015/0017

AUTHOR: Kuznetsov, O. M. (Engineer); Yerokhin, A. A. (Doctor of technical sciences)

TITLE: Welding of heat-resistant nickel alloys with IMET-4P electrodes

SOURCE: Svarachnoye proizvodstvo, no. 11, 1963, 15-17

TOPIC TAGS: nickel base alloy, nickel alloy welding, heat resistant nickel alloy, IMET 4P electrode, EI867 alloy, EI435 alloy

ABSTRACT: The Institut metallurgii im. A. A. Baykova (Institute of Metallurgy) has developed the IMET-4M and IMET-4P electrodes for manual welding of heat-resistant nickel-base alloys. The electrodes yield a weld metal with a molybdenum content of 18—20% (IMET-4M) and above 20% (IMET-4P). The weld metal (especially that of IMET-4P) has a high resistance to hot cracking. The weld metal of a multipass deposit with an IMET-4P electrode had a tensile strength of 51.5—68.4 kg/mm² and an elongation of 0.7—6.0%, both of which were lower than Cord 1/4%

ACCESSION NR: AP3012231

the figures for weld metal deposited into a copper mold (66.1-72.5) $kg/mm^2$  and 3.2-9.2%) because of the more rapid solidification of the latter. The metal of IMET-4P multipass deposit has lower strength and elongation at room temperature that the Ni-base alloys EI437B[Nimonic 8CA] and EI445P [0.08% C, 17-20% Cr, 2.2-2.8% Ti, 0.7-1.7% A1, 4-5% Mo, 4-5% W, 0.02% Ce, 0.01% B]. However, with increasing temperature the difference becomes less pronounced (see Fig. 1 of the Enclosure). The metal of the IMET-4P multipass weld in heat resistant alloys contains less molybdenum than metal deposited into the mold, but it has a higher content of tungsten, niobium and other alloying elements, which come over from the base metal. As a result, this metal has a higher heat resistance. The effect of the base metal on the weld metal is more pronounced in welding thin sheets, in which case the properties of the base and weld metals are almost identical. The 100-hr rupture strength at 850C of the IMET-4P multipass deposit was 8 kg/mm 2, compared with 3, 10, and 30 kg/mm<sup>2</sup> for the EI435 [Nimonic 75], EI437B, and EI867 [composition not given] alloys, and with 10.8  $kg/mm^2$  for the weld metal in the EI867 plate (15 mm thick). Postwelding austenitizing (at 1050C for 2 hr with air equling) or austenitizing with subsequent

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ACCESSION NR: AP3012231

single aging (at 850C for 5 hr) or double aging (at 660C for 16 hr, and at 790C for 16—12 hr) had no beneficial effect on the properties of the weld metal either at room or clevated temperatures. Orig. art. has: 2 figures and 6 tables.

ASSOCIATION: Institut metallurgii im. Baykova (Institute of Metallurgy)

SUBMITTED: 00

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ENCL: 01

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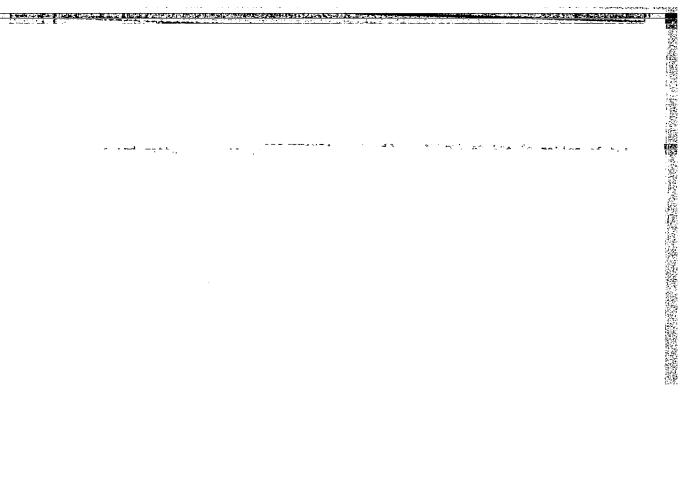
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APPROVED FOR RELEASE: 06/19/2000

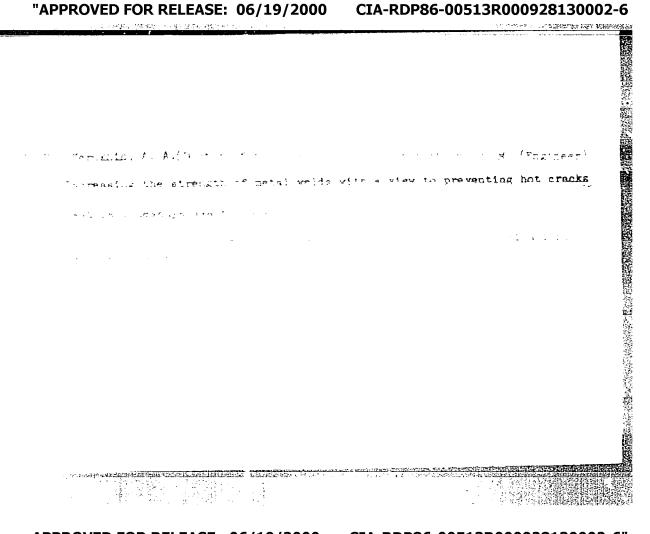
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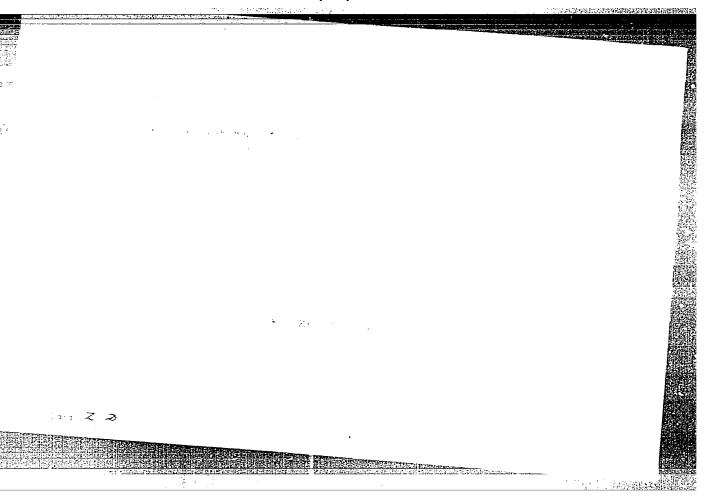
KUZNETSOV, O.M., inzh.; YEROKHIN, A.A., doktor tekhn. nauk

Welding heat-resistant nickel alloys with IMET-4P electrodes. Svar. proizv. no.11:15-17 N'63. (MIRA 17:5)

1. Institut metallurgii im. Baykova.



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YEROKHIN, A.A., KUZNETSOV, O.M., BYKOV, A.N.

Effect of certain elements on the properties of the seam metal in welding heat resistant alloys. Avtom. svar. 17 no.9:11-14 S \*64. (MIRA 17:10)

1. Institut metallurgii im. A.A. Baykova.

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# KUZNETSOV, O.N.

Use of etaperazine in treatment of periodic schizophrenia. Trudy Gos.nauch.-issl.inst.psikh. 35:165-174 162. (MIRA 16:2)

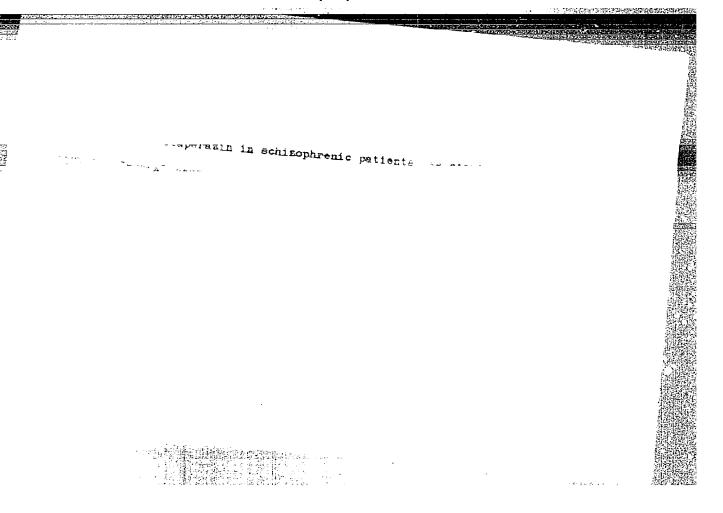
1. Otdeleniye psikhozov pozdnego vozrasta (zav. otdeleniye prof. S.G. Zhislin) i otdeleniye psikhofarmakologii (zav. otdeleniyem kand.med.nauk G.Ya. Avrutskiy) Gosudarstvennogo nauchnoissledovatel skogo instituta psikhiatrii.

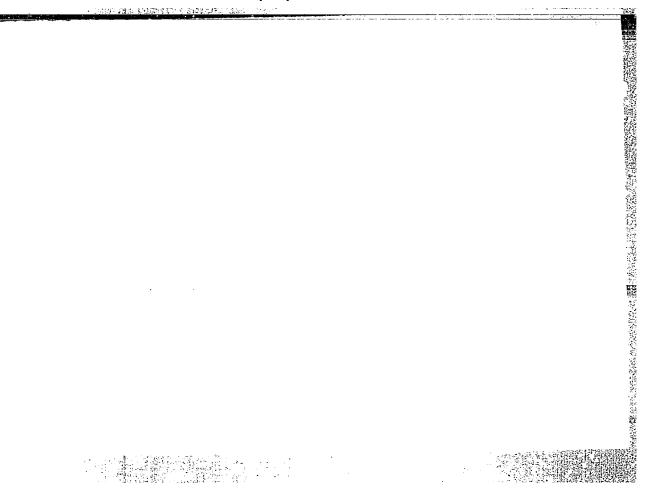
(SCHIZOPHRENIA) (PIPERAZINEETHANOL)

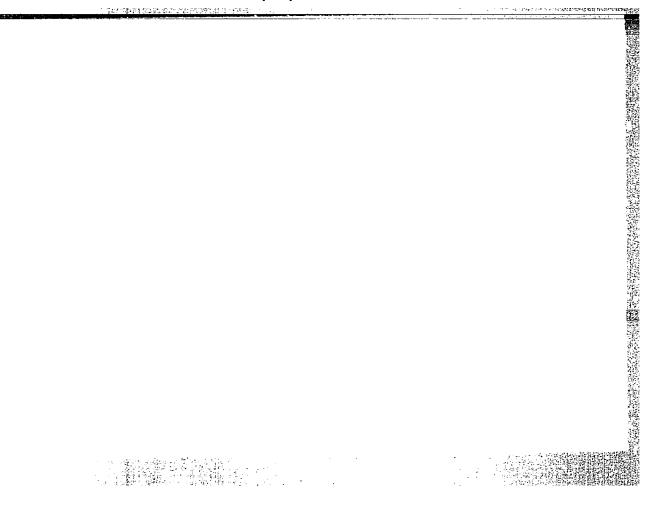
## KUZNETSOV O.N.

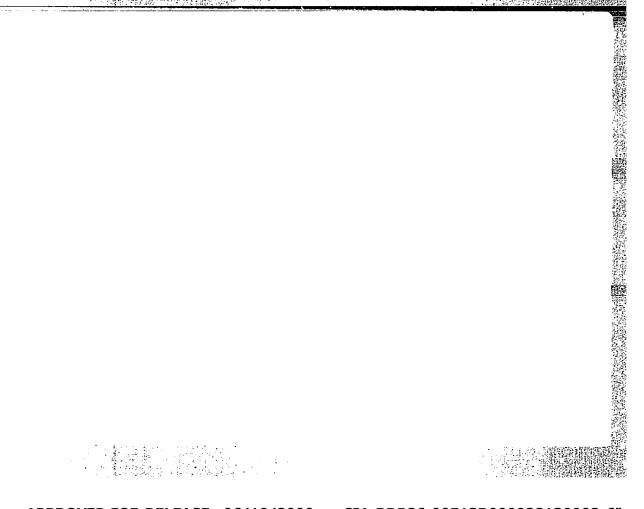
Unusual side effects of ethaperazine treatment similar to psychic disorders in epidemic encephalitis. Vop.klin., patog. i lech. shiz. no.1:78-80 '64. (MIRA 18:5)

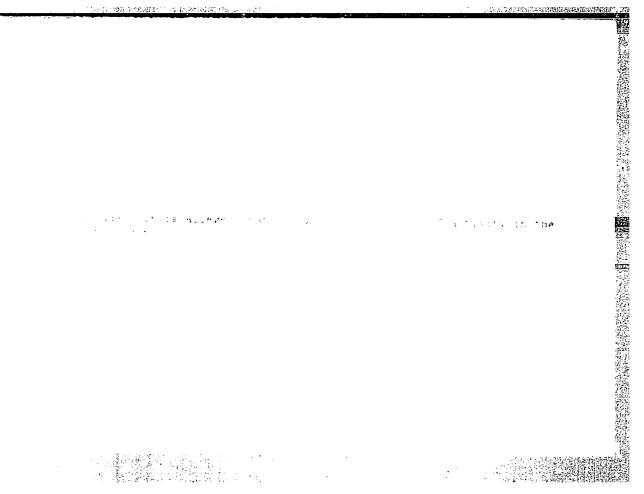
1. Otdel shizofrenii (zav. - prof. S.G.Zhislin) i otdel psikhofar-makologii (zav. - kand.med.nauk G.Ya.Avrutskiy) Gosudarstvennogo nauchno-issledovateliskogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR.

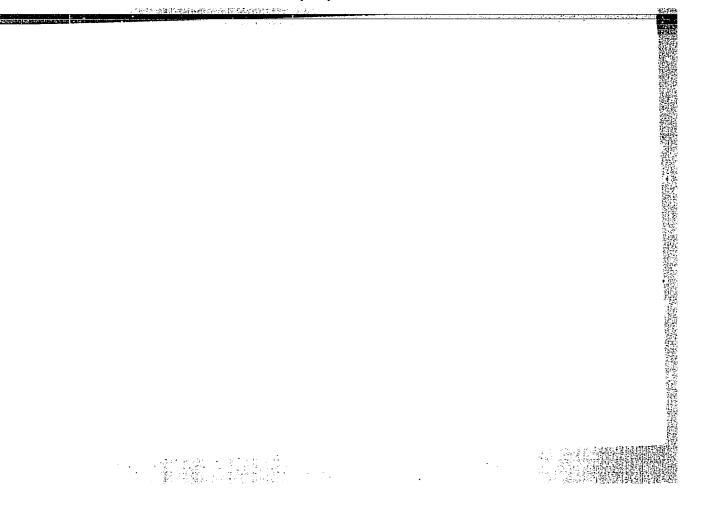












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ouvanov. P.	V.; Nikitin	V. V. ! Kondrako	T V. M . Kmagare	A.; Beregovkin, A skiy, A. S.; Kuzn L'yev, V. G.; Fed	orov. Io. A.;
ORG: none	•		•	•	52 B+1
COTTOMING CU	er illent on	the Voskhod-2 V	camination of P. spacecraft [Paper 24 to 2	I. Belyayev and r presented at th 27 May 1966]	A. A. Tennor
OURCE: Kon	Cerentsiya po meditsiny. (	problemam kosmi	cheskov meditair	ny, 1966. Problem aterialy konferen	my tsii,
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and again a : They were fo	v, were perio month later. ound to have l	rmed on the th The cosmonau Typeremia of the	ts complained o	ays after the flig f light fatigue,	!
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L 08258-57 ACC NR: AT6036481 D Their pulse showed a certain lability. Pulse frequency rose significantly during mild physical exertions and changes in the position of the body. There was an increase in intraventricular conductivity, an increase in the systolic index (7-11%), and a delay in restoration of hemodynamic indices after physical exercise. Belyayev's oxygen consumption increased by 23% and Leonov's by 14% as compared with preflight levels. Vital capacity of the lungs diminished by 8-12%, while pulmonary ventilation increased by 51-18%. Neurological examinations revealed a light tremor of the fingers, a high orthostatic reflex with an absence of pulse reaction to the oculocardiac reflex, and an increase in the slow bioelectrical activity of the brain cortex. Psychological tests revealed an increase in distribution and in the middle magnitudes of the duration of the period of sensory motor reaction. Since this was not accompanied by errors, it is possible to assume that the fatigue observed in cosmonauts was a compensatory

reaction. Blood and urine examination on the third day after flight did not differ substantially from preflight levels. Biochemical examination

uncovered an increase of chlorides, adrenalin, noradrenalin, and

Card 2/3

17-oxycorticosteroids in the urine.

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### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928130002-6

ACC NR: AT6036603

SOURCE CODE: UR/0000/66/000/000/0241/0242

AUTHOR: Kuznetsov, O. N.

ORG: none

TITLE: Quietroom tests as a method of studying individual psychological characteristics of personnel Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,. Moscow, 1966, 241-242

TOPIC TAGS: isolation test, space psychology, psychologic stress, cosmonaut training, bioastronautics, soundproof chamber test

ABSTRACT:

The concept of operator activity presently consists of averaged and abstracted (from individual psychological features) personality. In addition, research on operator reliability has closely paralleled research on the influence of the personality factor on reliability.

An experimental psychological study of human personality is an urgent, if complicated and difficult problem. Most psychological and experimental approaches do not reveal the psychological structure of

ACC NR. AT6036603

personality to an adequate degree. The sociometric and projective methods of the bourgeois psychology of personality are not designed to solve the problems confronting Soviet science. The experimental approach of D. N. Uznadze and the modeling of complex operations by F. D. Gorbov reveals the individual psychological features of personality far more comprehensively.

Soundproof chamber tests involving the prolonged stay of human subjects in a closed space under regimented activity conditions is an approach which most effectively permits detection of the individual psychological features of personality which are immediately germane to operator activity in a number of specialized professions. The advantages of this approach are: The matching of determined and undetermined activity; the blending of positive aspects of natural and artificial experiments into one approach; the capacity to simultaneously study psychological and physiological parameters; the chronic observation of shifts in various states; and the observations of the experimenter taken to be the "publicity of isolation." The task of the experimenter is to monitor that individual, well-defined psychological factor, coupled with other factors such as sensory deprivation, hypodynamia, altered daily routine, and the necessity of adapting these enumerated relationships to new conditions.

ACC NR. NTGOZGGOZ

Operator activity from the standpoint of the psychological significance and suitability of an operator during a chronic experiment can be studied by using polyeffector recording methods (V. I. Myasnikov, 1963) which permit the detection of the intimate aspects of operator dynamics. An interesting capability of chronic soundproof chamber tests is the comparison of objective and subjective (diaries and personal accounts) data.

The necessary conditions for the correct evaluation of individual psychological features of personality from soundproof chamber tests are a comprehensive scope, dialectic approach, comprehensive of the goals and motives of activity, and the clinical and psychological views of A. F. Lazurskiy. The suitability of a subject, characterized by subordination of participation in the experiment to motives associated with his basic personal interests, lends a vitally imitative aspect to the experiment conforming to the concepts of V. N. Myasishchev. The suitability of a subject is considered from the position of I. P. Pavlov's goal reflex and from the analogy of overrehearsal and the transparent (method) acting of K. S. Stanislavskiy (who created method acting).

Experiments involving chronic isolation in a closed space coupled with relative sensory deprivation and methods of group psychology (F. D. Gorbov, M. A. Novikov) which expose subjects to special, predetermined, Card 3/4

ACC NR. AT6036603 sharply delineated social conditions, can reveal those individual psychological features of personality which other approaches mentioned in the literature cannot.		•
In the author's opinion, the use of soundproof chamber studies for studying the personality factor of operator activity has prospects and can help to solve some timely problems of engineering psychology as they relate to problems of cosmonautics.'  [W.A No. 22; ATD Report 66-116]	:	
SUB CODE: 06,05,22 / SUEM DATE: 00May66		

## "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928130002-6

ACC NR. AT6036605 SOURCE CODE: UR/0000/66/000/000/0244/0245	1
AUTHOR: Kuznetsov, O. N.; Lebedev, V. I.; Litsov, A. N.	•
ORG: none	1
TITLE: Problem of the "application" method of strict sensory deprivation during	
prolonged quiet-room tests (Paper presented at the Conference on Problems of Space Redicine held in Moscow from 24-27 May 1966)	; 
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 244-245	a regiment of a common of the states
TOPIC TAGS: isolation test, sensory deprivation, space psychology, psychologic stress, cosmonaut training, psychophysiology	1 4 1 1
ABSTRACT: Methods were sought to naturally enforce strict sensory deprivation	
in the absence of subjective psychological complications. In the process of soundproof chamber tests of neuropsychic stability during normal daily	
activity and an increase of up to 9 hours of regulated sleep, it was	

in the absence of subjective psychological complications. In the process of soundproof chamber tests of neuropsychic stability during normal daily activity and an increase of up to 9 hours of regulated sleep, it was established (based on subjective evaluations by the subjects, EEG's during sleep, autography, nocturnal pulse and respiration dynamics) that the majority of subjects slept no longer than 7 hours. The remaining time

Card 1/2

ACC NR. AT6036605

alloted for sleep was spend in a horizontal position in darkness with strictly limited movements. These hours were tolerated with great difficulty but were not considered as artificial by the subjects.

From here, experiments using a shifting daily activity regimen (sleep from 14:00—23:00) were conducted. Tests began at 13:00. During the first regulated sleep period (experimental night) subjective and objective data showed that subjects did not sleep more than 4 hr. The remainder of sleepless time was spent lying in a rigid position in the darkened soundproof chamber. This permitted the calculation of sleepless hours while conducting prolonged chamber tests applying strict sensory deprivation on a backround of relative deprivation. Despite the fact that these states were tolerated with great difficulty, no psychopathological manifestations were noted. The degree of human adaptation to sensory deprivation was judged to be a direct result of functional adaptation to altered daily routines.

The method of enforcing strict sensory deprivation on a background of relative sensory deprivation while increasing the number of hours of regulated sleep during a normal and altered daily routine can be used for evaluating spacecraft-operator tolerance to sensory deprivation.

[W. A. No. 22; ATD Report 66-116]

Cord 2/2 SUB CODE; 06.05 / SUBM DATE; 00May66

ACC NR. AT6036612

SOURCE CODE: UR/0000/66/000/000/0254/0255

AUTHOR: Legon'kov, B. V.; Surinov, Yu. A.; Kuznetsov, O. N.; Lebedev, V. I.

ORG: none

TITLE: Question of the psychological bases of individual physical training

[Paper presented at the Conference on Problems of Space Medicine held in Moscow from SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 254-255

TOPIC TAGS: cosmonaut training, space psychology, physical exercise, space physiology, psychophysiology

#### ABSTRACT:

Individualization of the physical preparation program is one of the best methods for developing the individual psychological qualities necessary for good performance in spaceflight. Of course such individual tailoring of physical training is impossible without analysis of the personality of each cosmonaut. On one hand, data obtained from psychological studies is used by physical-education instructors to select the most effective teaching methods. On the other hand, observation of cosmonaut behavior in the process of physical training is a valuable

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addition to the complete psychological picture. During physical training emotional and volitional characteristics, demonstrated in the ability to overcome difficulties, thoroughness of movements, psychomotor activity, formation of motor coordination habits, and initiative, are identified. With the use of exercises selected according to the degree of individual physical preparedness, (jump turns from unusual positions, complicated jumps on the trampoline, and a variety of other exercises) it was possible to identify other psychic characteristics: stamina, the capacity for analytical thought, attention, and memory.

The method of studying individual personality characteristics and the method of developing psychologically valuable qualities by means of physical preparation was developed by the authors on the basis of experimental work by the leading athletic psychologists P. I. Rudik, O. A. Chernikova, and T. I. Gagayeva. Personality manifestations in work were considered on the basis of theories of B. M. Teplov and V. S. Merlin.

Complex study of personality (using the methods of teaching psychology) during physical training permits substantiation of data obtained during observation by means of laboratory experiments. Data

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can also be compared with those from sources of personality information associated with the method of clinical psychology. Inclusion of physical training in personality study permits use of the teaching-psychology experiment, which expands the possibilities of personality analysis.

Athletic games with carefully selected teams are used to determine the group characteristics of a given group of cosmonauts. Various team rearrangements help clarify group typology of individual cosmonauts (according to the methods of F. M. Gorbov and M. A. Novikov).

Individualized physical training consists of two steps; 1) interviews and observation, and 2) individual preparation and experiments in teaching psychology. There are many kinds of possible interactions between psychological study and physical training: information can be exchanged between instructors and psychologists using the same personality theory and study methods, joint consultations on training methods can be held, individual courses of study for each cosmonaut can be developed and modified jointly.

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FSS-2/EWT(1)/FS(v)-3 L 11781-66 DD ACC NR: AP6003276 SOURCE CODE: UR/0246/66/066/001/0081/0088 AUTHOR: Gorbov, F. D. (Moscow); Kuznetsov, 0. N. (Moscow); Lebedev, ORG: none TITLE: The modeling of psychosensory disorders under conditions of short-term SOURCE: Zhurnal nevropatologii i psikhiatrii, v. 66, no. 1, 1966, 81-88 TOPIC TAGS: human physiology, parabolic flight, weightlessness, space psychology, spatial disorientation, depercentalization ABSTRACT: The authors reviewed 10 Western and 28 Soviet sources to demonstrate that the reaction of healthy subjects to short-term weightlessness (20-60-sec parabolic flights) can be used as a model of some clinical psychosensory disorders such as depersonalization, derealization, the "end-of-the-world" syndrome, The reaction characteristics of subjects exposed to weightlessness fall into three categories. In the first, weightlessness is tolerated without difficulty or unpleasant sensation, and working ability is not impaired. It is stated that all Soviet cosmonauts fall into this category. The second category consists of subjects who experience acute sinking, tumbling, soaring, counterrotational, and upside-down sensations, accompanied by sensations of discomfort, fear, and loss of spatial orientation during the first 4-5 sec of weightlessness. These sensa-Card 1/3 UDC: 613.693-07:612.014.47+616.89-008.428.1

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tions are interchangeable with those of happiness, playfulness, and euphoria. Subjects in the second category ultimately adapt to subsequent flights. The third category consists of individuals whose illusory reactions to weightlessness are more severe and persist throughout the entire weightless period, often resulting in seasickness. Some individuals of a subgroup of the third category experience acute sinking sensations which lead to hysteria, involuntary screaming, and increased motor activity, persisting throughout the entire weightless period. Such a complete loss of spatial orientation is compared to depersonalization or the "end-of-the-world" syndrome. In general, there are many significant features common to both psychosensory disorders and those perceptual sensations observed during parabolic flights. An analysis of psychophysiological reactions to short-term weightlessness can serve to confirm theories of the origins of disintegrative psychosensory disorders. Weightlessness data indicates that psychosensory reac. ons have three phases: In the first phase, there is a dissociation of analyzer activity which can be accompanied by unpleasant sensations and unstable spatial illusions; in the second phase, depersonalization reactions occur although the subject interprets the illusions rationally; in the third phase, depersonalization and derealization occur with delirious illusory interpretations by the subject. It is concluded that the analysis of psychosensory reactions to short-term weightlessness can lead to an understanding of the pathogenic mechanisms of clinical psychosensory disorders, just as studies of specific reactions to isolation and sensory deprivation can serve to elucidate some heretofore unclear questions concerning various psychiatric syndromes.

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## KUZNETSOV, 0.0.

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1. Zamestitel' nachal'nika nauchno-issledovatel'skoy laboratorii melanzhevogo kombinata imeni K.I. Frolova.

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16.8000 (1031,1013,1344)

AUTHOR:

Kuznetsov, O.P.

TITLE:

The application of predicate calculations to the synthesis of one class of multiple switching circuits

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 2, 1961, 34, abstract 2 V257 (V sb. Avtomat. upraleveniye, M., AN SSSR, 1960, 339-344)

TEXT: The operating conditions of a circuit may be written as a system of equations for all outputs (Y's) at a certain instant t+1, in the RHS of which are the predicates  $A_i(t_i)$  corresponding to the inputs and  $Y_j(t_j)$  corresponding to the outputs, with the conditions  $t_i \le t$ ,  $t_j \le t$ , satisfied for all  $t_i$  and  $t_j$ . The synthesis thus reduces to changing Y's into the predicates of intermediate elements X(t) after which it is possible to construct Bolean-junctions for intermediate elements and the outputs. It is

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The application of predicate...

shown that the full algorithm of synthesis of multiple switching systems as yet does not exist since it is not clear how X's should be introduced into the formulae. An example of circuit synthesis with four inputs and outputs is given. In this circuit, after consecutive excitation of two inputs, two outputs are excited in the same sequence and with the third excitation of the input the outputs are disconnected and the circuit starts from scratch. I reference.

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