

VISHNEVSKIY, A.A.; SHIK, L.L.; PINSKER, I.Sh.

Theoretical analysis of the effectiveness of operations for
interarterial anastomoses in tetralogy of Fallot. Eksper.
khir. i anest. 9 no.6:3-14 N-D '64. (MIRA 18:7)

1. Institut khirurgii im. A.V.Vishnevskogo (direktor -
deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR,
Moskva.

PERSON, Raisa Samuilovna; SHIK, L.L., prof., otv. red.

[Muscle antagonists in the movements of man] Myshtsy-
antagonisty v dvizheniiakh cheloveka. Moskva, Nauka,
1965. 112 p. (MIRA 18:9)

RODIONOV, Yu.F., inzh.; SHIK, L.S., inzh.

Removal of the rotor pole of the KSV-37500-11 synchronous compensator without dismantling the rotor. Energetik 12 no.5:31-32 My '61.
(MIRA 17:6)

RODIONOV, Yu.F., inzh.; SHIK, L.S., inzh.

Removal of the rotor pole of the KSV-37500-11 synchronous compensator
without dismantling the rotor. Energetik 12 no.5:31-32 My '64.
(MIRA 17:6)

MIKAELIAN, A.L.; SHIK, M.L.; GORYANINA, N.K.

Experimental insufficiency of the aortic valves. Eksper. khir. 5
no. 5:6-11 '60. (MIRA 14:1)

(AORTA—DISEASES)

SHIK, M. L.

Cand Med Sci - (diss) "Dynamics of pulmonary blood circulation under conditions of difficult outflow of blood from the lesser circulatory system in the human being." Moscow, 1961. 19 pp; (Inst of Normal and Pathological Physiology of the Academy of Medical Sciences USSR); 250 copies; price not given; (KL, 10-61 sup, 227)

VINOGRADOVA, T.S.; VLASOV, Yu.A.; GURFINKEL', V.S.; SHIK, M.L.

Clinical and physiological parallels in congenital and acquired heart defects. Vop. pat. i reg. org. krov. i dykh. no.1:77-87 '61.
(MIRA 18:7)

SHIK, M.L.

Relationships of the pressures in the arterial and venous
segments of the pulmonary circulation in patients with
mitral heart defects. Eksper.khir.i anest. 6 no.4:34-37

'61.

(MIRA 14:10)

(MITRAL VALVE—DISEASES)

(BLOOD—PRESSURE)

(PULMONARY CIRCULATION)

MESHALKIN, Ye.N.,³ prof.; MESHALKIN, I.I.; SHIK, M.I.

Studies on pulmonary circulation in patients with mitral defects of the heart. Terap.arkh. 33 no.4:18-26 '61. (MIRA 14:5)

1. Iz laboratorii fiziologii (zav. - kand.med.nauk V.S. Gurfinkel') i khirurgicheskogo otdeleniya serdechno-sosudistoy patologii vzroslykh (zav. - kand.med.nauk I.N. Meshalkin) Instituta eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya Akademii nauk SSSR.
(BLOOD—CIRCULATION) (MITRAL VALVE—DISEASES)

VLASOV, Yu.A.; GURFINKEL', V.S.; IVANOV, D.I.; MALKIN, V.B.; POPOVA, Ye.O.;
SHIK, M.L.

Hemodynamic studies during the respiration of O_2 under excessive
pressure. Biul. eksp. biol. i med. 51 no.4:22-27 Ap '61.

(MIRA 14:8)

1. Iz Instituta eksperimental'noy biologii i meditsiny (dir. - prof.
Ye.N.Meshalkin) Sibirskogo otdeleniya AN SSSR, Novosibirsk.

Predstavlena deystvitel'nyy chlenom AMN SSSR V.V.Parinym.

(BLOOD—CIRCULATION) (RESPIRATION)

(ATMOSPHERIC PRESSURE—PHYSIOLOGICAL EFFECT)

GURFINKEL, V.S.; KAPULLER, L.L.; SHIK, M.L.

Significance of sphincters of the orifices of the pulmonary veins
in man. Biul. eksp. biol. i med. 51 no.6:14-17 Je '61. (MIRA 15:6)

1. \ Iz Instituta eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR (dir. - prof. Ye.N. Meshalkin) i 52-y
gorodskoy klinicheskoy bol'nitsy (glavnyy vrach P.S. Petrushko).
Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.
(PULMONARY VEIN)

KANDEL', E.I., kand.med.nauk; KUKIN, A.V.; SHAL'NIKOV, A.I.; SHIK, M.L.,
kand.med.nauk (Moskva)

Improvement in the method of local freezing of the subcortical
structures in stereotactic operations on the brain. op.neuro-
khir. no.4:51-54 '62. (MIRA 15:9)

1. Chlen-korrespondent AN SSSR (for Shal'nikov).
(BRAIN--SURGERY) (REFRIGERATION ANESTHESIA)

GURFINKEL', V.S.; KANDEL', E.I.; KOTS, Ye.M.; SHIK, E.I. (Moskva)

Use of tremography for prognosis of the effectiveness of surgical treatment of parkinsonism. Vop. neirokhir. 27 no.4:
1-6 Ji-Ag'63 (MIRA 17:2)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo znameni institut neyrokhirurgii imeni N.N.Burdenko AMN SSSR i Institut biofiziki AN SSSR.

GEL'FAND, I.M.; GURFINKEL', V.S.; KOTS, Ya.M.; TSETLIN, M.L.; SHIK, M.L.

Synchronization of motor units and its model representation.

Biofizika 8 no.4:475-487 '63.

(MIRA 17:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

KRINSKIY, V.I.; SHIK, M.L.

A method for the study of posture. Biofizika 8 no.4:513-515 '63.
(MIRA 17:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

PYATETSKIY-SHAPIRO, I.I.; SHIK, M.D.

Spinal regulation of movement. Biofizika 9 no.4:488-492 '64.
(MIRA 18:3)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

VLASOV, Ye.A.; GURFINKEL', V.S.; SHIK, M.L.

Model of an aperiodic ballistocardiography and the description of
a aperiodic ballistocardiogram in healthy persons. Biul. eksp. biol.
i med. 57 no.6:103-106 Je '64. (MIRA 18:4)

1. Institut eksperimental'noy biologii i meditsiny (dir. - prof.
Ye.N.Meshalkin) Sibirskogo otdeleniya AN SSSR, laboratoriya
kardiologii (zav. - kand.med.nauk T.S.Vinogradova) i Institut
biofiziki (dir. G.M.Frank) AN SSSR.

GURFINKEL', Viktor Semenovich; KOTS, Yakov Mikhaylovich; SHIK,
Mark L'vovich; KOLPAKOVA, Ye.A., red.; TSUZMER, T.S., red.

[Regulation of human posture] Reguliatsiia pozy cheloveka.
Moskva, Nauka, 1965. 255 p. (MIRA 18:6)

NESMEYANOVA, T.N.; PYATETSKIY-SHAPIRO, I.I.; SHIK, M.L.

Study of the activity of motor units in intact, spinal and deafferented
dogs. Biophysika 10 no.2:317-323 '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Institut vysshey
nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moskva.

VEBER, N.V.; RODIONOV, I.M.; SHIK, M.I.

"Escape" of the spinal cord from supraspinal influences. Biofizika 10
no.2:334-336 '65. (MIRA 18:7)

GURFINKEL', V.S.; KANDEL', E.I.; KOTS, Ya.M.; SHIK, M.L.

Mechanism of the origination of tremor in parkinsonism. Zhur. nevr. i psikh. 65 no.5:645-651 '65. (MIRA 18:5)

1. Institut biologicheskoy fiziki AN SSSR i Ordena Trudovogo Krasnogo Znameni Institut neyrokhirurgii im. Burdenko AMN SSSR, Moskva.

GELFAND, I.M.; GUREVICH, V.G.; KOTS, Ya.M.; ERINCHAY, V.I.;
FRETIN, M.L.; SHIK, M.L.

Study of postural activity. Biophysika 9 no.6:710-717 '64.
(MIRA 18:7)

I. Institut biologicheskoy fiziki AN SSSR, Moskva.

OVCHINNIKOV, N.N.; SHLEKHANOVA, N.M.

Change in water content in leaves and internodes in the ontogeny of wheat, oat and barley. Nauch.dokl.vys.shkoly; biol.nauki no.3:134-139 '65. (MIRA 18:8)

1. Rekomendovana kafedroy fiziologii rasteniy Odesskogo sel'skokhozyaystvennogo instituta i Vostochno-Sibirskim biologicheskim institutom Sibirskogo otdeleniya AN SSSR.

L 62518-65

ACCESSION NR: AP5018800

UR/0217/85/010/004/0665/0672
577.3

AUTHOR: Arshavskiy, Yu. I.; Kots, Ya. M.; Orlovskiy, G. N.; Rodionov, I. M.; Shik, M. L.

TITLE: Investigation of the biomechanics of running in dogs

SOURCE: Biofizika, v. 10, no. 4, 1965, 665-672

TOPIC TAGS: motion mechanics, animal physiology

ABSTRACT: The authors investigated the kinematics (trajectory of hinge joints, phases of support and transfer of extremity) of dogs running on a treadmill at speeds ranging from 1 1/2 to 11 km/hour. The cycle of each joint was found to have an area (transfer phase) whose trajectory is virtually constant regardless of the speed at which the animal runs. Shifting by the animal in relation to the support during the running is likewise little affected by the speed. The coordination of movements in all the main joints of an extremity is more or less constant at all rates. However, the coordination between the symmetrical extremities and the anterior-posterior relations do vary with the speed of running. There are standard

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elements and elements varying with the speed in the kinematic picture. Only two parameters are significantly dependent on the speed. It is biomechanically impossible to run at different speeds with a change in fewer parameters. "The authors are grateful to I. M. Gel'fand, B. S. Gurfinkel', I. I. Pyatetskiy-Shapiro, and M. L. Tsetlin for their interest in this work and for valuable advice." Orig. art. has: 5 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biophysics, AN SSSR)

SUBMITTED: 14Jan65

ENCL: 00

SUB CODE: LS

NO REF SOV: 004

OTHER: 004

Card 2/2

GURFINKEL', V.S.; KOTS, Ya.M.; KRINSKIY, V.I.; SHIK, M.L.

Method of evaluating the state of the inhibition apparatus in
human spinal cord. Biul.eksp.biol. i med. 59 no.5:15-18 '65.
(MIRA 18:11)

1. Teoreticheskiy otdel (zav. -- chlen-korrespondent AN SSSR
I.M.Cel'fand) Instituta biologicheskoy fiziki (direktor --
chlen-korrespondent AN SSSR G.M.Frank) AN SSSR, Moskva.
Submitted December 12, 1963.

ORLOVSKIY, G.N.; SHIK, M.L.

Standard elements of cyclic movement. Biofizika 10 no.5:847-854
'65.

(MIRA 18:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

CHIR, M.L.; ORLOVSKIY, G.N.

Coordination of legs during dog's run. Biofizika 10 no.6:
1037-1047 '65. (MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted
April 20, 1965.

L 60454-65 EWT(d) IJP(c)

ACCESSION NR: AP5007556

S/0020/65/160/005/1039/1041

AUTHOR: Bryzgalov, V. I.; Pyatetskiy-Shapiro, I. I.; Shik, M. L.

TITLE: Two-level model of automation interaction

SOURCE: AN SSSR. Doklady, v. 160, no. 5, 1965, 1039-1041

TOPIC TAGS: cybernetics, mathematical model, computer simulation, automation, artificial organ, game theory

ABSTRACT: This paper is devoted to the study of a system of automata, whose overall behavior is modified by some device so that the conduct of the automata in a game can be prescribed. A symmetric game is modeled on a computer. In the game a system of N automata $A_1 \dots A_N$ having two possible moves denoted by 0 and 1, interact while some device B modifies the overall strategy. With every move of the game automaton $A_i (1 \leq i \leq N)$ wins with probability $P(e_i, k)$, where e_i is the previous move of the automaton and k is the number of automata having performed move 1 in the previous turn. The number $P(e, k)$, $e = 0, 1$; $0 \leq k \leq N$, determines the strategy of the automata. The task of B is to modify the numbers $P(e, k)$. This paper is restricted to considering the case for which $P(0, k) + P(1, k) = 1$ for all k and $0.2 \leq P(0, k) \leq$

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L 60454-65

ACCESSION NR: AP5007556

0.8, depending upon the behavior of the automata in the game. Device *B* must work out the details of a strategy where the average number of automata making move 1 is equal to a previously selected number θ_0 . The paper describes in detail the working of device *B*. It is pointed out that the basic problem in such a system lies in the large number of moves necessary to establish the desired overall behavior pattern. For example, with $N = 50$, something like 10^5 - 10^6 moves are required. The present work demonstrates a procedure where only 10^3 - 10^4 moves are required due to the effect of device *B*. It is shown that although 10^5 - 10^6 moves are necessary to reliably establish stable system characteristics, it is even possible to change the strategy in 10-100 moves. With 50 automata it is possible to find a set of optimum parameters for *B* such that the overall system behavior will be satisfactory in 70% of the cases. The problem investigated is then related to the physical problem of control of artificial limbs (to find and maintain a desired limb configuration). "We express thanks to I. M. Gelfand and M. L. Tsetlin, whose ideas on control accomplished by modifying the interactions between the system's controlled elements served as a starting point for this investigation."

ASSOCIATION: none

Card 2/3

L 60454-65

ACCESSION NR: AP5007556

SUBMITTED: 18Aug64

ENCL: 00

SUB CODE: DP, MA

NO REF SOV: 009

OTHER: 001

hjp
Card 3/3

L 46290-66 EWT(1) SCTB DD

ACQ NR: AP6031122

SOURCE CODE: UR/0217/66/011/002/0364/0366

AUTHOR: Orlovskiy, G. N.; Severin, F. V.; Shik, M. L. 9

ORG: Institute of Biological Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR) B

TITLE: Effect of speed and load on a dog's coordination of movements while running

SOURCE: Biofizika, v. 11, no. 2, 1966, 364-366

TOPIC TAGS: synergy, dog, skeletal mechanics, EEG

ABSTRACT: Previously two of the authors (G. N. Orlovskiy and M. L. Shik), together with Yu. I. Arshavskiy, Ya. M. Kots and I. M. Rodionov, investigated the movements of dogs running on a treadmill and came to the conclusion that over a wide range of running speeds there is a one-to-one correspondence between running speed and the movements of all the limbs which corresponds to the "trot"-type gait. It was noted that the duration of the limb-support phase is much more highly dependent on running speed than are duration and trajectory of limb transfer. Limb transfer was therefore called a "standard" running element. Obviously, a change in treadmill running speed leads to a corresponding change in the load on the animal's motor system: the greater the speed, the greater is the power which the animal must develop. However, such a one-to-one correspondence does not always exist under actual conditions. The

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UDC: 577.37

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ACC NR: AP6031122

present article describes the movements of a dog when running under conditions where the power to be developed by the animal's motor system could be made to vary by setting the running speed or in other ways. With pickups placed on the principal joints to transmit joint angles, the animal ran along the belt of the treadmill. Changes in the angles of the joints were recorded on an electroencephalograph. The experimenter could independently vary not only the speed of the electric motor-driven belt, but also the angle of inclination of the belt. A leash tied to the dog's collar made it possible to pull the animal back. Tractive force was measured by a dynamometer.

The authors state that the results obtained forced them to revise some of their previous conclusions. The animal's movements are determined not only by running speed, but also by the magnitude of supplementary load. In cases of significant change in load and running speed there is a change in the amplitudes and velocities of joint movements during the limb-transfer phase, especially marked in the region of low low and running-speed values. Thus,

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ACC NR: AP6031122

the transfer phase is not a standard running element in the literal sense although a number of its elements vary slightly over the whole investigated range of velocities and loads. The effect of running speed and load on movements is not the same. Speed affects a greater number of values characterizing the movements of the limbs than does load. Supplementary load changes only values which are affected by speed, with an increase in both speed and load resulting in an increase in the amplitudes and velocities of joint movements. Orig. art. has: 2 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 19Nov65 / ORIG REF: 002

Card 3/3

SHIK, M. M.

"Seasonal Growth of the Grassy Cover of an Oak Grove." Sub 19
Mar 51, Moscow State Pedagogical Inst imeni V. I. Lenin.

Dissertations presented for science^{*} and engineering degrees in
Moscow during 1951.

SO: Sum. No. 480, 9 May 55

* *CANDIDATE Biological Sci.*

POPOV, N.V., kandidat biologicheskikh nauk, dotsent; SHIK, M.M., redaktor.

[Phenological observation in the school] Fenologicheskie nabluden-
niia v shkole. Izd.2., ispr. Moskva, Gos.uchebno-pedagog.izd-vo,
1953. 215 p.

(MLRA 7:3)
(Phenology)

OPARIN, Aleksandr Ivanovich, akademik; SHIK, M.M., redaktor;
ISLENT'YEVA, P.G., tekhnicheskii redaktor.

[Origin of life on earth in the light of contemporary achievements
of natural science] Proiskhozhdenie zhizni na zemle v svete
sovremennykh dostizhenii estestvoznaniia. Moskva, Izd-vo "Znanie",
1955. 22 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politi-
cheskikh i nauchnykh znani. Ser.3, no.35) (MLRA 8:10)
(Life--Origin)

30/3, 1955.

BOYMAR, Aleksey Osipovich, doktor meditsinskikh nauk, professor;
SHIK, M.M., redaktor; ISLENT'YEVA, P.G., tekhnicheskiiy redaktor.

[Significance of microelements in the organism of man and animals] Znachenie mikroelementov v organizme cheloveka i zhivotnykh. Moskva, Izd-vo "Znanie," 1955. 23 p. (Vsesoiuznoe obshchestvo po rasprostraneniui politicheskikh i nauchnykh znani. Ser. 3, no.49) (MLBA 8:12)
(Biochemistry)

KLESHNIN, Aleksey Fedorovich; SHIK, M.M., redaktor; IMITRIYEVA, R.V., tekhnicheskiiy redaktor

[Role of light in plant life] Rol' sveta v zhizni rastenii. Moskva, Izd-vo "Znanie", 1955. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani. Ser. 3, no. 29)
(Plants, Effect of light on)

300, 1400
KOL'TSOVA, Marionilla Maksimovna, doktor biologicheskikh nauk;
BENYUMOV, O.M., redaktor; SHIK, M.M., redaktor; ISLENT'YEVA,
P.G., tekhnicheskii redaktor.

[Teachings of I.P.Pavlov on the activity of signal systems of
reality] Uchenie I.P.Pavlova o signal'nykh sistemakh deistvi-
tel'nosti. Moskva, Izd-vo "Znanie," 1955. 30 p. (Vsesoiuznoe
obshchestvo po rasprostraneniю politicheskikh i nauchnykh
znani. Ser. 3, no.52) (MLRA 8:12)

(PAVLOV, IVAN PETROVICH, 1849-1936)

SHIK, M.M.

DOBROKHVALOV, Valentin Pavlovich, kandidat biologicheskikh nauk;
SHIK, M.M., redaktor; ISLENT'YEVA, P.G., tekhnicheskii
redaktor

[Evolution of the organic world] Razvitie organicheskogo mira.
Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiuznoe obshchestvo
po rasprostraneniю politicheskikh i nauchnykh znaniy. Ser.3,
no.58) (MLRA 8:12)

(Life--Origin) (Evolution)

SHIK, M.M.

YAKOVLEV, Pavel Nikanorovich; SHIK, M.M., redaktor; ISLENT'YEVA, P.G.
tekhnicheskiiy redaktor. ~~tekhnicheskiiy~~

[I.V. Michurin and his teaching] I. V. Michurin i ego uchenie.
Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiuznoe obshchestvo
po rasprostraneniю politicheskikh i nauchnykh znani. Ser.3
no.37) (MLRA 8:11)

1. Deystvitel'nyy chlen VASKHNIL
(Michurin, Ivan Vladimirovich, 1855-1935)

DATA, no. 111,
VERSHILOVA, Polina Al'bertovna; OLSUF'YEV, Nikolay Grigor'yevich;
VARFOLOMEYEVA, Angelina Aleksandrovna; SHIK, M.M., redaktor;
ISLENT'YEVA, P.G., tekhnicheskiiy redaktor.

[Contagious diseases transmitted by animals to man (brucellosis,
tularemia, leptospirosis) Zaraznye bolezni, peredaiushchiesia
ot zhivotnykh cheloveku (brutsellez, tuliaremiia, leptospiroz)
Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiuznoe obshchestvo
po rasprostraneniui politicheskikh i nauchnykh znani, Ser.3,
no.18) (MLRA 8:9)

(Brucellosis) (Tularemia) (Leptospirosis)

TUROVA, Antonina Danilovna, professor; SHIK, M.M., redaktor;
ISLENT'YEVA, P.G., tekhnicheskii redaktor.

[New medicinal agents from plants; based on "Sunday lectures" at the Polytechnical Museum] Novye lekarstvennye sredstva iz rastenii; po materialam "Voskresnykh chtenii" Politekhnikheskogo muzeia. Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniuiu politicheskikh i nauchnykh znani. Ser.3. no.42) (MLRA 8:12)
(Botany, Medical)

MOLCHANOVA, Ol'ga Pavlovna; SHIK, M.M., redaktor; ISLENT'YEVA, P.G.,
tekhnicheskiiy redaktor.

[Scientific basis of a healthy diet] Nauchnye osnovy pravil'nogo
pitaniia. Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiuznoe
obshchestvo po rasprostraneniuiu politicheskikh i nauchnykh znani
Ser. 3, no.30) (MLRA 8:12)

1. Chlen-korrespondent Akademii meditsinskikh nauk (for Molchanova)
(FOOD-ANALYSIS)

SMIA, 11-111.
SERGIYEVSKIY, Mikhail Vasil'yevich, laureat Stalinskoy premii; BENYUMOV,
O.M., redaktor; ISLENT'YEVA, P.G., tekhnicheskii redaktor; SHIK,
M.M., redaktor

[Regulation of respiration by the cortex] Regulatsiia dykha-
niia koroi golovnoy mozga. Moskva, Izd-vo "Znanie" 1955. 37p.
(Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh i
nauchnykh znaniy. Ser. 3, no. 54) (MLBA 8:12)

1. Chlen-korrespondent AMN SSSR, professor (for Sergiyevskiy)
(RESPIRATION) (BRAIN)

BARANOV, Pavel Aleksandrovich; SHIK, M.M., redaktor; ISLENT'YEVA, P.G.
tekhnicheskii redaktor.

[Origin and development of the plant world] Proiskhozhdenie i
razvitie rastitel'nogo mira. Moskva, Izd-vo "Znanie," 1955. 39 p.
(Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i
nauchnykh znani, Ser. 3, no.13) (MLRA 8:8)

1. Chlen-korrespondent Akademii nauk SSSR (for Baranov).
(Plants--Evolution)

TUMANOV, Ivan Ivanovich; SHIK, M.M., redaktor; ISLENT'YEVA, P.G., tekhnicheskii redaktor

[Losses of plants due to cold weather and measures to prevent them] Prichiny gibeli rastenii v kholodnoe vremia goda i mery ee preduprezhdeniia. Moskva, Izd-vo "Znanie," 1955. 39 p. (Vsesoiuznoe obshchestvo po rasprostraneniuiu politicheskikh i nauchnykh znani. Ser. 3, no.56) (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Tumanov).
(Plants, Effect of temperature on)

PROZOROVSKIY, Nikolay Alekseyevich, professor; SHIK, M.M., redaktor;
IMSHENNIK, I., tekhnicheskii redaktor

[Botanical geography with principles of general botany] Botanicheskaya
geografiya s osnovami obshchei botaniki. Moskva, Gos. izd-vo
"Sovetskaya nauka," 1956. 481 p. (MLRA 9:7)
(Phytogeography)

SHIK, R.; NENASHEV

Marking of poultry carcasses. Mias.ind.SSSR 33 no.2:26 '62.
(MIRA 15:5)

1. Sochinskiy myasokombinat (for Nenashev).
(Poultry plants)

SHIK, R.G.; TARGULYAN, A.R.

Rare localization of lymphogranulomatosis; trachea, bronchi and lung Probl.gemat. i perel. krovi 2 no.5:61-63 S-O '57. (MIRA 11:1)

1. Iz kafedry patologicheskoy anatomii TSentral'nogo instituta usovershenstvovaniya vrachey (zav. - chlen-korrespondent AMN SSSR prof. N.A.Krayevskiy) i otolaringologicheskogo otdeleniya (zav. - zasluzhennyy deyatel' nauki RSFSR prof. V.K.Trutnev) bol'nitsy imeni S.P.Botkina (glavnyy vrach - prof. A.N.Shabanov)

(HODGKIN'S DISEASE, case reports

bronchi, lungs & trachea, clin. aspects & pathol.)

(BRONCHI, neoplasms

Hodgkin's dis., clin. aspects & pathol.)

(LUNG NEOPLASMS, case reports

clin. aspects & pathol. .)

(TRACHEA, neoplasms

same)

SHIK, S.M.

Autonomy of the Moscow glaciation. Dokl. AN SSSR 117 no.2:283-286
N '57. (MIRA 11:3)

1. Geologicheskoye upravleniye tsentral'nykh rayonov Ministerstva
geologii i okhrany nedr SSSR. Predstavleno akademikom V.N. Sukachevym.
(Moscow Province--Glacial epoch)

SHIK, S.M.

Interstadial Moscow glaciation. Biul.Kom.chetv.per. no.23:46-56
'59. (MIRA 13:4)

(Glacial epoch)

SHIK, S.M.

Recent data on the Odintsovo interglacial deposits. Dokl.AN
SSSR 133 no.5:1187-1190 Ag '60. (MIRA 13:8)

1. Geologicheskoye upravleniye tsentral'nykh rayonov Glavgeologii
pri Sovete Ministrov RSFSR. Predstavleno akad. V.N.Sukachevym.
(Geology, Stratigraphic)

LOPATNIKOV, M.I. | SHIK, S.M.

Boundary position of the Quaternary glaciation in Smolensk and
Kalinin Provinces. Mat.po geol.i pol.iskop.tsentr.raion.evrop.
chasti SSSR no.5:123-131 '62. (MIRA 16:6)
(Smolensk Province—Glacial epoch)
(Kalinin Province—Glacial epoch)

KORINA, Nadezhda Aleksandrovna; CHEBOTAREVA, Nina Stepanovna;
SHIK, Sergey Mikhaylovich; MARKOV, K.K., doktor geogr.
nauk, otv. red.

[Map of Quaternary sediments in the northwestern part of
the East European Plain on a 1:2,500,000 scale] Karta
chetvertichnykh otlozhenii Severo-Zapada Russkoi ravniny
mashtaba 1:2 500 000. Moskva, Izd-vo AN SSSR, 1962. 13 p.
(MIRA 18:6)

LOPATNIKOV, M.I.; SHIK, S.M.

Marginal formations of the Valday and Moscow glaciations in the central part of the East European Plain. Trudy Kom. chetv. per. 21:113-117 '63. (MIRA 16:10)

1. Geologicheskoye upravleniya tsentral'nykh rayonov.

ALEKSANDROV, V.G., professor; SHIK, T.M., redaktor; GRIBOVA, M.P.,
tekhnicheskiiy redaktor

[Anatomy of plants] Anatomia rastenii. Izd. 3., ispr. i dop.
Moskva, Gos. izd-vo "Sovetskaya nauka," 1954. 498 p. (MLRA 7:8)
(Botany--Anatomy)

TARASENKO, M.P.; SHIK, V.I.; DOBROVOL'SKIY, P.M.

[Advice to fruit and grape growers] Sovety sadovodam i vinogradariam.
Izd.2., dop. Kiev, Gos.izd-vo sel'khoz.lit-ry USSR, 1959. 251 p.
(MIRA 13:2)

(Ukraine--Fruit culture) (Ukraine--Viticulture)

TKACHEV, I.G., inzh.; SHIK, V.M., inzh.

Results of observations of manifestations of rock pressure in Surtaikha
Mine. [Trudy] VNIMI no.45:282-288 '62. (MIRA 16:4)
(Kuznetsk Basin—Rock pressure)

KUNYAYEV, Ye.V., inzh.; SHIK, V.M., inzh.

Displacement of rocks during the use of the shield mining
method. [Trudy] VNIMI no.47:32-40 '62 (MIRA 17:7)

ARDASHEV, K.A., kand. tekhn. nauk; SOK, V.M., inzh.; YUMEROV, P.A., inzh.

Characteristics of displacement, caving and overflow of rocks
during the use of the shield mining method in "Koksovdan-2"
mine. [Trudy]VNIMI no.50:26-31 '63.

(MIRA 17:10)

38356 SHIK, YA. L.

O peredvizheniyakh inorodnykh tel pri slepykh raneniyakh. Vestnik khirurgii
im. Grekova, 1949, No 5, s. 22-26.-Bibliogr: 11 nazv.

38300 SHIK, YA. L., KOYANDSKIY, V. I. and MIKHEYENKO, A. G.

Tomografkhcheskoye prispobleniye k snimochmmu shtativu. Problemy
tuberkuleza, 1949, No 6, s. 55-57. - Bibliogr: 5 nazv.

MAYANTS, R.V.; SHIK, Ya. L.

Simultaneous roentgenograms of various depths. Prob.tuberk., Mosk-
va No.1:72 Jan-Feb 51. (CIWL 20:6)

1. Yalta Clinical Sanatorium No.1 (Head--Candidate Medical Sciences
G.P. Fedorov; Assistant Director--Honored Physician RSFSR V.K.Taran-
tayev).

1. GUSAKOVICH, S. V., NIK, YA. L.
2. NOTR (600)
4. Diagnosis, Radioscopic
7. Attenuation of intensity and disappearance of shadows in the roentgenograms,
Vest. rent. i rad. No. 1, 1953.

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

SHIK, Ya.L., prof.

The X-ray image as an object of perception [with summary in English].
Vest.rentg. i rad. 33 no.1:58-64 Ja-F '58. (MIRA 11:4)

1. Iz kafedry rentgenologii i radiologii Leningradskogo pediatricheskogo
meditsinskogo instituta.

(ROENTGENOGRAPHY

x-ray image as object of perception (Rus)

(PERCEPTION

same)

SHIK, Ya.L., prof. (Leningrad, S-15, Tavricheskaya ul., 17, kv.8)

Achievements in roentgen diagnosis of diseases in infants in recent years. Vest. rent. i rad. 35 no. 6:3-9 N-D '60.
(MIRA 14:2)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. Ya.L. Shik) Leningradskogo pediatricheskogo meditsinskogo instituta.
(INFANTS—DISEASES) (DIAGNOSIS, RADIOSCOPIC)

SHIK, Ya.L., prof.

"Introduction to X-ray diagnosis" by U.Cocchi, P. Thurn. Reviewed
by IA.L. Shik. Vest. rent. i rad. 36 no. 1:74-75 Ja-F '61.
(MIRA 14:4)

(DIAGNOSIS, RADIOSCOPIC) (COCCHI, U.) (THURN, P.)

SHIK, Ya.L., prof.

"X-ray diagnosis of acquired cardiac defects in children" by N.A.
Panov. Reviewed by TA.I.Shik. Vest.rent.i rad. 36 no.3:73 My-Je
'61. (MIRA 14:7)

(HEART—DISEASES) (PANOV, N.A.)

SHIK, Ya.L., prof. (Leningrad, S-15, Tavricheskaya ul, d.17, kv.8)

X-ray diagnosis of pulmonary emphysema in children. Vest. rent. i
rad. 36 no.6:11-16 N-D '61. (MIRA 15:2)

1. Iz kafedry rentgenologii i radiologii Leningradskogo pediatricheskogo
meditsinskogo instituta.
(EMPHYSEMA, PULMONARY) (DIAGNOSIS, RADIOSCOPIC)

SHIK, Ya.L.

X-ray diagnosis of lobar and segmental atelectases in children.
Vest. rent. i rad. 40 no.1:3-7 Ja-F '65. (MIRA 18:6)

1. Kafedra rentgenologii i radiologii Leningradskogo
pediatricheskogo meditsinskogo instituta.

SHIK, Ya.M., inzh.

Lapping thread rings. Mashinostroitel' no.12:29-30 D '57.
(MIRA 10:12)

(Machine tools)

(Fastenings)

USSR/Microbiology - Microbes Pathogenic for Man and Animals.
Bacteria. Bacteria of the Intestinal Group.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99380

Author : Shik, Ye.I.

Inst :

Title : On the Isolation of Bacilli of Murine Typhus in Patients with Dysentery.

Orig Pub : Zh. mikrobiol. epidemiol. i immunobiol. 1957, No 5, 75-76

Abstract : During the period of 1954-1955, 163 coprocultures of the bacillus of murine typhus were isolated from 114 patients with dysentery and 15 healthy children and workers in food enterprises, in the absence of any toxoinfection of the same name. The greatest number of cases of dysentery accompanied by elimination of bacilli of murine typhus occurred in children up to the age of 2 years. In them, the disease had a typhoid-like course; it was severe,

Card 1/2

SHIK, Ye.I.

Food poisoning caused by *S. breslau* var. *bins*. Zhur. mikrobiol.
epid. i immun. 31 no.2:111-112 D '60. (MIRA 14:6)

1. Iz Shaturskoy gorodskoy bol'nitsy.
(SALMONELLA BRESLAU) (FOOD POISONING)

GRIGORENKO, M.G.; KOZLOVSKIY, G.B.; MUSTAFIN, G.A.; FEYGIN, L.A.; SHIKALOV
A.G.; PETERSA, Ye.R., kandidat tekhnicheskikh nauk, redaktor; FAYNBERG,
G.M., inzhener, redaktor.

[Road machinery] Dorozhnye mashiny. Pod obshei red. Ye.R. Petersa i G.M.
Fainberga. Moskva, Ministerstva avtomobil'nogo transporta i shosseinykh
dorog SSSR. Pt. 1. 1954. 366 p. (Microfilm) (MIRA 9:6)
(Road machinery)

NOVITSKIY, G.I., inzh.; SHIKALOV, I.G., inzh.

Let's prolong the life of railroad ties. Put' i put. khoz. no.10:
17-18 0 '57. (MLRA 10:11)

(Railroads--Ties)

SHIKALOV, I.G., inzh.; FOMIN, Ye.D., inzh.

Two hundred and twenty-five million ties. Puti i put. khoz.
no.4:15-16 Ap '59. (MIRA 13:3)
(Railroads--Ties)

SHKALOV, I.G.

Produce more ties of high quality. Put' i put.khoz. 9 no.6:9
165. (MIRA 18:6)

1. Nachal'nik otseila Glavnogo upravleniya puti i sooruzheniy
Ministerstva putey soobshcheniya.

VASIL'YEV, N.; DEMIN, D.; YEROKHOVETS, A.; ZHURAVLEV, V.;
ZHURAVLEVA, R.; KANDYBA, Yu.; KOLOBKOVA, G.; KRASNOV, V.;
KUVSHINNIKOV, V.; MATUSHEVSKIY, V.; PLEKHANOV, G.;
SHIKALOV, L.; SUKHOVA, G.M., red.; RUBINOVA, L.Ye.,
tekhn. red.

[On the trail of the Tunguska catastrophe] Po sledam
Tungusskoi katastrofy. Tomsk, Tomskoe knizhnoe izd-vo,
1960. 157 p. (MIRA 16:10)
(Podkamennaya Tuguska Valley--Meteorites)

VUL'F, B.K.; SHIKALOV, N.P.

Hardening of aluminum and magnesium alloys with ternary metallic compounds. Izv.Sekt.fiz.-khim.anal.27:198-208 '56. (MLRA 9:9)

1.Kafedra aviatsionnogo materialovedeniya Veyenne-vozdushnoy inzhenerney akademii imeni professora N.Ye.Zhukovskogo.
(Magnesium alloys) (Aluminum alloys)

SCV/136-59-9-19/25

AUTHORS: Vul'f, B.K. and Shikalov, N.P.

TITLE: Work on an Experimental Installation for Melting
Magnesium Alloys in an Argon Atmosphere

PERIODICAL: Tsvetnyye metally, 1959, nr 9, pp 75-78 (USSR)

ABSTRACT: The disadvantage of melting under a flux is that inclusions of chlorides and fluorides can be obtained in the metal. Vacuum melting of magnesium is difficult because of its high vapour pressure. Work was therefore carried out on melting under an atmosphere of argon. The argon must be purified because it contains 0.05% oxygen and 0.23% nitrogen. Fig 1 shows a diagram of the method of melting. Argon from a cylinder (1) passes through two purifiers containing calcium (2) and lithium (3) and into a melting furnace (4). The air is removed from the apparatus by a vacuum pump (5). Fig 2 shows the construction of the actual furnace. The body of the furnace (12) is made from steel. The crucible (9) and the mould (14) can be heated and the temperatures are controlled by thermocouples. Provision is made for stirring the melt and for pouring into the mould (at about 200 to 250°C). The vacuum pump type VN461-M is ✓

Card 1/2

SOV/136-59-9-19/25

Work on an Experimental Installation for Melting Magnesium Alloys
in an Argon Atmosphere

used and before filling the furnace with argon, it is at a pressure of $(4 - 6) \times 10^{-2}$ mm mercury. This apparatus has been used for making magnesium alloys containing lithium, copper, calcium, zinc and aluminium. They are characterized by dense structures and clean surfaces. The composition hardly varies from the nominal. There are 2 figures and 4 soviet references. ✓

Card 2/2

L 4497-66 EWT(1)/EWA(h)

ACC NR: AP5023274

UR/0302/65/000/003/0035/0037
534.232.45

AUTHOR: Gorban', A.M.; Gridin, G.K.; Dodonova, G.M.; Onishchenko, E.L.; Sirotyan, V.G.; Ferenets, N.K.; Kholm'skaya, Ye. V.; Shikalov, V.S.; Sukhomlinov, M.M.

(Candidate of Technical Sciences)

TITLE: Magnetostriction delay lines

SOURCE: Avtomatika i priborostroyeniye, no. 3, 1965, 35-37

TOPIC TAGS: magnetostriction, circuit delay line, ferromagnetic material, delay circuit

ABSTRACT: Magnetostriction delay lines are based on the fact that ferromagnetic materials transmit ultrasound with a speed which is lower than the speed of electrical signals through conventional circuits. The Institut avtomatiki Gosudarstvennogo komiteta po priborostroyeniyu, sreds'vam avtomatizatsii i sistemam upravleniya pri Gosplane SSSR (Institute of Automation, State Committee for the Design of Instruments, Means of Automation, and Control Systems attached to Gosplan SSSR) developed three such delay lines with delay times of 80, 640, and 2560 μ sec, respectively. The block diagram of the devices is shown in Fig. 1 of the Enclosure. The sound conductor is made of an "N-1, hard" nickel alloy wire 0.7 mm in diameter. Its Young's modulus is about 21,000 - 23,000 kg/mm², specific density is 8.9 g/cm³, ultrasound velocity is 4,750 - 5,050 μ sec, and the temperature coefficient of delay is $1.4 \cdot 10^{-4}$ per °C. The article presents the pertinent circuit diagrams and a detailed description of the delay line operation. Orig. art. has: 1 formula and 4 figures.

Card 1/3

L 4497-66

ACC NR: AP5023274

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: EC, 1E

NO REF SOV: 000

OTHER: 000

Card 2/3

L 4497-66

ENCLOSURE: 01

ACC NR: AP5023274

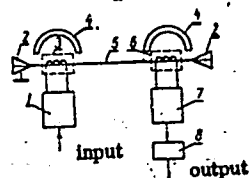


Figure 1. Block diagram of the magnetostriction delay line = 1 - Input signal shaper;
2 - muffler; 3 - transmitter magnetostriction converter; 4 - permanent magnets;
5 - sound duct; 6 - receiver magnetostriction converter; 7 - output signal amplifier;
8 - pulse spreader.

PC
Card 3/3

0046

L 00405-07 EWT(d)/EWT(1)/EWT(V)/EWT(K)/EWT(h)/EWT(1) GU
 ACC-NR: AT6029231 SOURCE CODE: UR/0000/66/000/000/0143/0152

AUTHOR: Sukhomlinov, M. M.; Ferenets, N. K.; Onishchenko, E. L.; Pelipenko, N. I.;
 Shikalov, V. S.; Kholmskaya, Ye. V.; Sirotyan, V. G.; Dodonova, G. M.

ORG: none

TITLE: Digital-analog computer system¹⁴ using magnetostrictive delay lines²⁵

SOURCE: Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematicheskogo
 modelirovaniya. 4th, Kiev, 1964. Vychislitel'naya tekhnika v upravlenii (Computer
 technology in control engineering); trudy konferentsii. Moscow, Izd-vo Nauka, 1966,
 143-152

TOPIC TAGS: digital differential analyzer, circuit delay line, magnetostriction, com-
 puter control system

ABSTRACT: The authors describe the design and performance of a digital differential
 analyzer using magnetostrictive delay lines as memory elements. The authors claim
 that such a memory has the advantages of a high speed ferrite core memory and the econ-
 omy of a magnetic drum. The digital differential analyzer has the following parameters:
 32 integrators, binary operational code, 20 bit words, 250 KHz cycle rate, 400 opera-
 tions per second, and error not exceeding 0.01%. The operational program and the ini-
 tial conditions are entered manually through switches on a control console. The data
 entry can be manual, using decimal or binary codes, or automatic. The digital

Cord 1/3

ACC NR: AT6029231

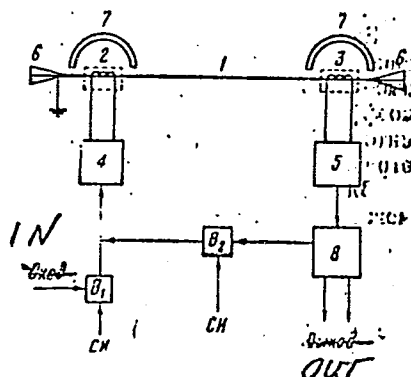


Fig. 1. A block diagram of the memory unit
 1 - ultrasonic delay line; 2 - the electro-acoustic transducer;
 3 - receiving coil; 4 - the input driver; 5 - output amplifier;
 6 - dampers; 7 - permanent magnets; 8 - pulse stretcher;
 B₁ and B₂ - signal gates.

SUB CODE: 09/ SUBM DATE: 12Feb66/ ORIG REF: 005/ OTH REF: 000

Card 3/3 *ell*

1. 9797-66 EWT(1)/FWA(h) GG

ACC NR: AP5028509

SOURCE CODE: UR/0286/65/000/020/0095/0095

AUTHORS: ^{44,55} Sukhomlinov, M. M.; ^{44,55} Pelipenko, N. I.; ^{44,55} Ferenets, N. K.; ^{44,55} Onishchenko, E. L.;
^{44,55} Shikalov, V. S.; ^{44,55} Gorban', A. M.; ^{44,55} Sirotyan, V. G.

ORG: none

^{21,44,55} TITLE: A memory device with magnetostrictive delay lines. ²⁵ Class 42, No. 175740
[announced by] Institute of Automation of the State Committee on Instrument Manufac-
ture and Means of Automation and Control Systems of Gosplan, SSSR [Institut
avtomatiki gosudarstvennogo komiteta po priborostroyeniyu i sredstvam avtomatiki i
sistemam upravleniya pri gosplane SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 95

TOPIC TAGS: electromagnetic memory, circuit delay line, storage device

ABSTRACT: This Author Certificate presents a memory device using magnetostrictive delay lines. The device contains input and output converters, regeneration circuits, and a synchronizing generator. In order to increase reliability, one of the digital columns of the device is used as the synchronizer. Its regeneration circuit has two input converters spaced at a distance equal to a prime wavelength number (excluding two) (see Fig. 1). The distance between the input and output converters is not a multiple of the distance between the input converters.

Card 1/2

UDC: 681.142:621.374.5

L 2171-00

ACC NR: AP5028509

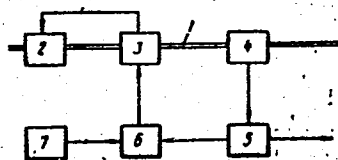


Fig. 1. 1 - Magnetostrictive line;
2 and 3 - input converters;
4 - output converter;
5 - reading amplifier;
6 - shaper; 7 - circuit of a
single start-up.

Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 29Sep64

PC

Card 2/2

L 61636-65 EWT(d)/EED-2/EWP(1) Pq-4/Pg-4/Pk-4 LJP(c) BB/GG/GS/JXT(BF)
 ACCESSION NR: AT5014723 UR/0000/65/000/000/0156/0163

AUTHOR: Sukhomlinov, M. M., Ferents, N. K., Onishchenko, E. L., Pelipenko, N. L.,
Shikalov, V. S., Kholmiskaya, Ye. V., Dodonova, G. M., Sirotin, V. G.

TITLE: Memory with magnetostriction delay lines for series computers

SOURCE: Operativnyye i postoyannyye zapomirayushchiye ustroystva (Rapid and nonvolatile storage); sbornik statey. Leningrad, Izd-vo Energiya, 1965, 156-163

TOPIC TAGS: magnetostriction delay line, small computer memory, inexpensive longlife memory, small rapid memory, delay line memory 16C

ABSTRACT: Dynamic delay-line memories seem to be the most suitable for small consecutive-action computers. The present paper describes one type of such memories based on magnetostriction delay lines. The block diagram of the memory is shown in Fig. 1 of the Enclosure. After outlining the necessary theory and describing the construction and operation of the device, the authors conclude that the advantages of the magnetostriction delay line memory are: 1) low cost; 2) possibility of memory alterations without disturbing the basic circuitry; 3) input and output of information through several branches; 4) high speed; 5) easy matching with transistorized circuits; 6) economical operation; and 7) long-life. Orig. art. has: 5 formulas, 5 figures, and 1 table.

Card 1/3

L 61636-65

ACCESSION NR: AT5014723

ASSOCIATION: None

SUBMITTED: 20Jan65

ENCL: 01

SUB CODE: DP

NO REF SOV: 004

OTHER: 000

Card 2/3

SHIKALOVA, I. V.

USSR/Physical Chemistry - Surface Phenomena. Adsorption. Chromatography. Ion Exchange, B-13

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61211

Author: Kiselev, A. V., Shikalova, I. V.

Institution: None *Res. Inst. USSR Inst. Phys. Chem., and Moscow State Univ*

Title: Adsorption of Fatty Alcohols and Phenols from Aqueous Solutions on Carbon Black

Original
Periodical: Zh. fiz. khimii, 1956, 30, No 1, 94-108

Abstract: With the view of resolving the question of the orientation of the molecules of the adsorbate at the surface of carbon adsorbents, were recorded at 20° the adsorption isotherms (A) of n-propanol (I), n-butanol (II), n-hexanol (III), phenol (IV), resorcinol (V), hydroquinone (VI), and phloroglucinol (VII) from aqueous solutions at channel black having a specific surface of 150 m²/g. Absolute isotherms plotted in accordance with the thus secured and the literature data show that A of fatty alcohols and phenols at carbon black

Card 1/2

USSR/Physical Chemistry - Surface Phenomena. Adsorption. Chromatography. Ion Exchange, B-13

Abstr Journal: Referat Zhur - Khimiya, No 19, 1956, 61211

Abstract: and graphite remains monomolecular up to high concentrations. A of I-III correspond to inverse series of Traube. The isotherms of II and IV at the medium region of concentration reveal a wavelike bending corresponding apparently to a consolidation of the monolayer with a transition from a mostly plane orientation of the adsorbed molecules to a mostly oblique. V-VII show plane orientation to the surface up to high relative concentrations. Graphization and purification of the carbon black surface increase A of alcohols and phenol and causes a shift of the maximum of the isotherms of ethanol and I-II to the region of lower concentration; the same shift with all other conditions being equal is observed on transition from ethanol to I and V. These facts are in accord with the deductions of the molecular theory of A of V. K. Semenchenko.

Card 2/2

AUTHORS: Kiselev, A. V., Shikalova, I. V. SOV/32-24-9-16/53

TITLE: The Determination of the Specific Surface of Soot by the Method of Adsorption From Solutions (Opredeleniye udel'noy poverkhnosti sazh metodom adsorbtsii iz rastvorov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1074-1076 (USSR)

ABSTRACT: On the basis of a known, absolute adsorption isotherm, the adsorption from solutions can, according to literature data (Refs 1,2), be used for the rapid determination of the specific surface S. Once the absolute adsorption isotherm for the phenol-water-soot system is known, the specific surface can be determined more rapidly from one to two adsorption points using the same measuring technique as Kaunovskiy and Gofman (Kaunowski and Hofmann) (Ref 4). In the paper under review, the absolute isothermal lines of phenol from aqueous solutions were determined using three different soot samples: ukhtinskaya termicheskaya sazha (Ukhta thermal soot), Ukhta core soot, and Ukhta core soot graphitized at 1700°. The technique employed is described. The concentration of the solution in equilibrium can be determined by the aid of an interferometer of the type ITR-2 and a calibration curve, or by titration.

Card 1/2

SOV/32-24-9-16/53

The Determination of the Specific Surface of Soot by the Method of Adsorption From Solutions

The amount of the adsorption x is calculated by a formula from the initial concentration and the concentration of the solution in equilibrium. The determination time for this method depends on the time of the attainment of the adsorption equilibrium; in series analyses, it does, however, not exceed one hour. There are 2 figures, 1 table, and 6 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

Card 2/2

KISELEV, A. V.; SHIKALOVA, I. V.

Adsorption of hydrocarbons from binary solutions on silica
gel. Koll. zhur. 24 no.6:687-695 N-D '62.
(MIRA 16:1)

1. Moskovskiy universitet, khimicheskiy fakul'tet, laboratoriya
adsorbtsii.

(Hydrocarbons) (Adsorption) (Silica)

SHIKAN, O.K.; SHIKAN, V.L.

For the purity of the scientific language. Ukr.khim.zhur.17 no.2:
285-289 '51. (MLRA 9:9)

1.Izdatel'stvo Akademii nauk USSR.
(Russian language--Technical Russian)

RIVKIN, Solomon Abramovich; KORSHUNOV, Dmitriy Andreyevich; FRENKEL',
Mariya Matveyevna; SHIKAN, T.M., red.; LEUSHCHENKO, N.L.,
tekhn. red.

[Precast reinforced concrete foundations for frame buildings]
Sbornye zhelezobetonnye fundamenty karkasnykh zdaniy; raschet i
konstruirovaniye. Kiev, Gos. izd-vo lit-ry po stroit. i arkhitekt.
USSR, 1962. 135 p. (MIRA 15:4)
(Concrete footings)

MIKHAYLOV, Georgiy Georgiyevich; SHIKAN, T.M., red.; BABIL'CHANOVA,
G.L., tekhn. red.

[Plastering and painting] Shtukaturnye i maliarnye raboty. Kiev,
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(MIRA 15:6)

(Plastering)

(Painting, Industrial)