

ARKAD'YEVSKIY, A.A.; BRUZHES, A.P.; MUKHAMEDOVA, Ye.A.

Disorders in the coordination of movements under high-altitude mountain conditions [with summary in English]. Biofizika 2 no.2: 242-251 '57. (MLRA 10:6)

1. Institut biologicheskoy fiziki Akademii nauk SSSR, Moskva.
(ALTITUDE, INFLUENCE OF) (MOVEMENT DISORDERS)

ARKAD'YEVSKIY, A.A.

Effect of a strong "white" noise on the auditory function [with
summary in English]. *Biofizika* 4 no.2:166-169 '59.

(MIRA 12:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(NOISE, effects,
strong noise on hearing (Rus))

ARKAD'YEVSKIY, A.A.; MAYOROV, V.P.; RUMYANTSEV, G.I.

Methodological problems in the measurement and evaluation of vibrations
and noise. Uch. zap. Mosk.nauch-issl.inst. san.i gig. no.7:17-25 '60.
(MIRA 15:2)

(NOISE_MEASUREMENT) (VIBRATION_MEASUREMENT)

ARKAD'YEVSKIY, A.A., kand.meditsinskikh nauk

Physiological bases for the determination of norms of industrial noise. Gig.i san. 25 no.9:21-26 S '60. (MIRA 13:9)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii i gigiyeny imeni F.F. Erismana Ministerstva zdravookhraneniya RSFSR. (NOISE---MEASUREMENT)

ARKAD'YEVSKIY, A.A.

Characteristics of auditory adaptation in persons working under noisy conditions. Biofizika 6 no.4:492-494 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(NOISE--PHYSIOLOGICAL EFFECT)

27.2700

39549

S/240/62/000/002/001/001
1015/1215

AUTHOR: Arkad'yevskiy, A. A., Candidate of Medical Sciences
TITLE: Hygienic standards for continuous noise of high frequency
PERIODICAL: Gigiyena i sanitariya, no. 2, 1962, 25-28

TEXT: Previous studies showed that noise of high frequency brought about functional and histological changes in the auditory apparatus. The present study was performed on 7 young and healthy persons (aged 19-23) in a soundproof chamber, to test the effect of a continuous high frequency noise of 70, 75, and 85 db. Physiological reactions were impaired following a continuous noise of 85 db, which therefore, unlike noises of 70 and 75 db., must be regarded as injurious to man. There are 4 figures.

ASSOCIATION: Moskovskiy nauchno-issledovatel'skiy institut gigiyeny imeni F. F. Erisman Ministerstva zdravookhraneniya RSFSR (Research Institute of Hygiene imeni F. F. Erisman. Moscow. Ministry of Health RSFSR)

SUBMITTED: March 24, 1961

Card 1/1

X

41727

S/240/62/000/010/001/001
I015/I215

27.270⁰

AUTHOR: Arkad'yevskiy, A.A., Candidate Medical Sciences
TITLE: The combined effect on man of vibration and noise
PERIODICAL: Gigiyena i sanitariya no. 10, 1962, 25-29

TEXT: This is the continuation of previous work, the combined effect having been insufficiently studied. Experiments carried out on 5 healthy persons 19-24 years old, included audiometric, chronoreflexometric and electrocardiographic recordings before and after stimulations. A noise of medium frequency and of an intensity of 85 db, together with vertical vibrations of 50 cyc/sec, with an amplitude of 15 μ did not bring about any marked physiolo-

Card 1/2

44579

S/244/63/022/001/001/001
A004/A126

37.2700
37.1120
AUTHORS: Tseytina, A. Ya., Lapina, S. A., Arkad'yevskiy, A. A.
TITLE: Effects of noise on the C-vitamin metabolism of test animals
PERIODICAL: Voprosy pitaniya, no. 1, 1963, 78 - 83

TEXT: The authors studied the effect of noise of 110 db intensity and 1,250 cps frequency on the C-vitamin metabolism in guinea pigs that were subjected to this noise for intermittent periods of 4 hours. The entire test series covered a period of 21 days. The tests were carried out on male guinea pigs, weighing 500 g each, that were fed on the ordinary diet of hay, oats, carrots and bran. During the first 13 days of the tests, the animals received a daily dose of 25 mg of vitamin C each, this amount being increased up to 100 mg during the following 8 days. The tests proved that noise stimulation resulted in the reduction of the ascorbic level in adrenal glands and in a decreased urinary excretion of vitamin C. This was particularly clearly revealed when the animals were receiving daily doses of 100 mg of ascorbic acid. It was also found that the amount of urine excreted by the test animals over the 4-hour period decreased. There are 4 figures and 2 tables,

Card 1/2

L 8477-65 AFWL/AMD/ASD(f)/ESD(t)/Pa-4/Pb-4

ACCESSION NR: AP4048783

S/0240/64/000/007/0025/0030⁸

AUTHOR: Arkad'yevskiy, A. A. (Candidate of medical sciences)

TITLE: Standardization from the hygienic standpoint of the level of continuous noise in industry

SOURCE: Gigiyena i sanitariya, no. 7, 1964, 25-30

TOPIC TAGS: noise, noise effect, noise level, physiological tolerance, hygiene, industrial hygiene

Abstract: The effects of steady noise with intensities of 65-100 decibels and frequencies of 200, 600, 1,250, and 4,000 cycles on auditory perception, the visual-motor reaction, cardiac activity, vascular tonus, and the state of the nervous system were studied. Comparisons were made between the physiological effects of low-energy noise of long duration and high-energy noise of short duration at equal energies of both types of noise. On the basis of the results obtained, standards for the maximum permissible level

Card

1/2

L 8477-65
ACCESSION NR: AP4048783

of noise were set and a procedure was developed for determining the level of noise at industrial establishments.

ASSOCIATION: Moskovskiy nauchno-issledovatel'skiy institut gigiyeny*
F. F. Erismana (Moscow Scientific Research Institute of Hygiene)

SUBMITTED: 13Mar63

ENCL: 00

SUB CODE: GP, LS

NO REF SOV: 005

OTHER: 000

JPRS

Card

2/2

L 24683-66 EWT(1) SCTB DD

ACC NR: AP6014687

SOURCE CODE: UR/0240/66/000/005/0029/0033

AUTHOR: Arkad'yevskiy, A. A.; Maksimova, L. I.

20
B

ORG: Moscow Scientific Research Institute of Hygiene im. F. F. Erisman (Moskovskiy nauchno-issledovatel'skiy institut gigiyeny)

TITLE: Effect of pulsed ²noise on humans

SOURCE: Gigiyena i sanitariya, no. 5, 1966, 29-33

TOPIC TAGS: pulsed noise, stable noise, human physiology, noise effect

ABSTRACT: The physiological effects of pulsed and stable noise were compared. Seven healthy male subjects aged 20-24 were audiometrically examined at frequencies of 200, 1000, and 4000 cps and the condition of their central nervous systems was assessed. The duration of exposure to noise was 55 min. Two noise pulse frequencies, 20/min and 180/min, were studied. The intensity of both pulsed and stable noise was 90 db. Some results of the experiment are shown in Table 1. These data reflected an increase in autonomic influence on cardiac activity. The effect of 20/min pulsed noise was primarily vagotonic while that of 180/min noise was sympaticotonic. Both stable and pulsed 180/min noise tended to decrease systolic pressure and increase diastolic pressure. Pulsed noise at 20/min did not affect these indexes.

Card 1/2

UDC: 612.014.45+613.644

L 24683-66

ACC NR: AP6014687

Table 1. Changes in pulse caused by various noise parameters

Type of noise	Pulse change	Noise duration, 55 min		After exposure to noise	
		No. of cases (%)	Beats/min	No. of cases (%)	Beats/min
Pulsed noise (180/min)	Elevated	25	10	13	7
	Depressed	29	12	46	6
	No change	46	—	41	—
Pulsed noise (20/min)	Elevated	10	9	7	5
	Depressed	50	7	62	9
	No change	40	—	31	—
Stable noise	Elevated	10	14	—	7
	Depressed	38	10	60	7
	No change	52	—	40	—

Generally, the marked difference between the effects of pulsed and stable noise which has been reported by some other investigators was not observed. Orig. art. has: 2 figures and 1 table. [CD]

SUB CODE: 05, 06/ SUBM DATE: 21Oct65/ ORIG REF: 006/ OTH REF: 001/ ATD PRESS: 4249

Card 2/2 FW

ИРКАДИЕВСКИЙ А. А.
ARKADYEVSKII A. A. The significance of rhythm in work in hot shops Gigiyena
i Sanitariya, Moscow 1949, 12 (24-28) Illus. 3

Investigations were carried out at a steel-rolling mill to assess the dependence of the productivity of the workers on their physical fatigue. The former was estimated by the time required by the individual worker for the various parts of the procedure - this is called the rhythm of the work -, the latter was assessed by the temperature and pulse rate of the worker. The group of workers with the longest time requirement showed also the highest degree of fatigue. This was particularly noticeable in the afternoon.

Collis - (World Medical Abstracts)

SO: Medical Microbiology and Hygiene
Section IV, Vol. 3, NO. 7 - 12

Inst. Labor Hygiene & Occupational Diseases, AMS USSR

(N)

L 11799-66

ACC NR: AP6002698

SOURCE CODE: UR/0391/66/000/001/0047/0049

AUTHOR: Arkad'yevskiy, A. A. (Moscow)ORG: Institute of Hygiene im. F. F. Erisman (Institut gigiyeny)

TITLE: Problem of the biological effect of various levels of stable noise

SOURCE: Gigiyena truda i professional'nyye zabolevaniya, no. 1, 1966, 47-49

TOPIC TAGS: noise effect, human physiology, auditory analyzer, hearing threshold

ABSTRACT: While the specific effects of noise on the CNS have been extensively studied, their nonspecific or threshold effects have received little attention. The authors conducted a laboratory experiment on young people with normal hearing to compare the physiological effects of a low noise intensity (65 db) with the effects of a higher intensity (75 db). During the tests, the subjects underwent audiometric, electrocardiographic, chronoreflexometric, and vascular tonometric examinations. The maximum sound pressure at 75 db was 4000 cps. The 300 tests were divided into three series: 1) control series without noise; 2) 75 db series; 3) 65 db series. The control series demonstrated that the experimental conditions did not produce any physiological artifacts. The second series (75 db) showed that hearing thresholds (measured with a ZG-D² sound generator¹⁰ and TD-6 electrodynamic telephone) decreased by an average of 15 db after 1-hr exposure. Full recovery took place 5-10 min later. The third series (65 db) resulted in an average auditory

Card 1/2

UDC: 613.644 612.014.45

ARKAS, I.Zoltan, okleveles kohomernok; MOLNAR, Imre, okleveles kohomernok;
PAGER, Laszlo, okleveles gepeszmernok

Application of safety programming in the design of a metal
foundry. Koh lap 95 no.8:Suppl. Ontode' 13 no.8:183-187 Ag '62.

1. Koho- es Gepipari Miniszterium Tervezo Irodai.

Q

COUNTRY : USSR
CATEGORY : Farm Animals. Cattle

ABS. JOUR. : RZBiol., No. 13, 1958, No. 59507

AUTHOR : Arkatov, M.N.
INST. : Chelyabinsk Agricultural Station
TITLE : Experience in Industrial Crossing in a Dairy Herd

ORIG. PUB. : S. kh. Sibiri, 1957, No 10, 41-45

ABSTRACT : The crossbreeding of Tagil cattle (T) with the Simmenthals (S) and East Friesians (EF) was conducted under identical conditions of feeding and management at the Experimental Farm of the Chelyabinsk Agricultural Station. Dams were composed of crosses with local cattle of the 2nd, 3rd and 4th generations. The Tagil-Simmenthal crosses (TS) of the 1st, 2nd and 3rd generations had a 3.93% butterfat.

CARD: 1/3

Q - 21

Country : USSR Q
CATEGORY : Farm Animals. Cattle
ABS. JOUR. : RZBiol., No. 13, 1958, No. 59507
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : milk content and surpassed both of the original breeds: T in milk yield for a lactation by 659, in butterfat content by 22.4 and in live weight by 63 kg.; S were exceeded by 516 and 22 kg., respectively, but the crosses lagged behind in live weight by 22 kg. The Tagil-East Friesian crosses (TEF) of the 1st and 2nd generations surpassed T in milk yield by 634 kg. and in butterfat content by 19.1 kg. Their butterfat content
CARD: 2/3

COUNTRY : USSR
CATEGORY : Farm Animals. Cattle
ABS. JOUR. : RZBiol., No. 13, 1958, No. 59507
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : equals 3.90% and exceeds that of EF by 0.21%,
cont'd. yielding to that of T by 0.11%. The outlay
of feed units per 1 kg. of 4% milk obtained
at the yearly rate of 4,475-4,733 kg. per
cow was: TS - 0.90; TEF - 0.89; T - 0.92;
S - 0.98.

CARD: 3/3

Q - 22

ARMATOV, N.N., Cand Agr Sci --(disc) "Industrial cross-breeding in ^{the}
~~the~~ ^{dairy} cattle ~~herd~~ ~~of~~ of the Chelyabinsk Agricultural Experi-
mental Station." [Mos], 1959. 23 pp (All-Union Scientific Research
Inst of Animal Husbandry), 150 copies (M, 31-59, 115)

- 26 -

АРМАТОУ, Н.

Dummy tank turrets. No 1.

Tankist, No 12, 1948.

ARKATOV, V.A. (Moskva, Malyy Afanas'yevskiy per. d.5/15, kv.5)

Prevention of ischemic spinal paralysis by shunts; experimental research [with summary in English. p. 158-159] Vest.khir. 77 no.7: 57-64 J1 '56. (MLRA 9:10)

1. Iz kliniki fakul'tetskoy khirurgii (zav. - prof. B.V.Petrovskiy) pediatricheskogo fakul'teta 2-go Moskovskogo meditsinskogo instituta im. I.V.Stalina.

(PARALYSIS, exper.

spinal, induced by clamping of abdom. aorta, prev. of paralysis by shunts in dogs)

(AORTA, surg.

exper. shunts for prev. of exper. spinal paralysis induced by clamping of abdom. aorta in dogs)

ИЗВЕСТИЯ

ARKATOV, V.A.

Prevention of ischemic paralysis of the legs and of the abdominal and pelvic organs by shunting peripheral vessels [with summary in English]. *Sksper.khir.* 2 no.3:26-33 My-Je '57. (MIRA 10:10)

1. Iz gosital'noy khirurgicheskoy kliniki (zav. - chlen-korrespondent ANN SSSR prof. B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(AORTA, surg.

exper., prev. of ischemic paralysis of legs & abdom. & pelvic organs by shunt)

ARKATOV, V.A., (Moskva, G-2, Kaloshin per., d.4, kv.23)

Prevention of spinal paralysis in prolonged aortic constriction by temporary shunting of peripheral vessels with a rotary pump; experimental study [with summary in English]. Vest.khir. 79 no.11:114-121 N '57. (MIRA 11:3)

1. Iz gosital'noy khirurgicheskoy kliniki (sav.-prof. B.V.Petrovskiy) 1-go Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova.

(COARCTATION OF AORTA, exper.
prev. of spinal paralysis by temporary shunting of peripheral vessels with pump & rollers in dogs (Rus)

EXCERPTA MEDICA Sec 19 Vol 2/4 Rehabilitation Apr 59

861. Experimental prevention of ischaemic paralyses of legs and of the abdominal and pelvic organs by shunting peripheral vessels (Russian text) ARKATOV V. A.
Eksper. Khir. 1957, 157/3 (26-33) Graphs 3 Illus 2

Paralysis of the legs and the abdominal and pelvic organs constitutes one of the most dangerous complications of aortic surgery. To prevent these complications creating a temporary by-pass of peripheral vessels with the aid of a rubber tube and glass cannulas is suggested. Femoral, carotid and humeral arteries were used for this by-pass. With the aorta clamped the blood by-passed and reached the spinal cord and the organs lying below the clamped site. Dogs were used for this experiment. In 3 cases the thoracic aorta was clamped below the left subclavian artery for 30 min., no temporary by-pass being created. In all 3 cases paralysis of the hind legs and the abdominal and pelvic organs was observed. In 17 cases the thoracic aorta was clamped below and above the left subclavian artery with and without resection of the aorta for periods lasting from 45 min. up to 2 hr. with a functioning by-pass. Good results were observed in 13 cases. In 4 animals paralytic phenomena set in postoperatively. In these 4 cases the by-pass had a lumen of 2 mm. in diameter. The use of a shunt with a lumen of 3 mm. and over prevents paralysis of legs and abdominal and pelvic organs with aorta clamped for a period of up to 2 hr., but will not prevent dilatation of the cardiac cavities. Partial clamping of the inferior vena cava with a functioning by-pass and clamped aorta prevents cardiac dilatation. The temporary shunt prevents the catastrophic drop in blood pressure, which, otherwise, follows the removal of the aortic clamps.

(IX, 19)

ARKATOV, V. A., Cand Med Sci -- (diss) "Prevention of spinal ischemic
paralysis by the shunt^{ing} method. (Experimental study.)" Mos, 1958.

18 pp with illis (First Moscow Order of Lenin Med Inst im I. M. Sechenov),
200 copies (KL, 16-58, 123)

-93-

11-11-11, 1-11
KOLYUTSKAYA, O.D., kand.med.nauk (Moskovskaya oblast', Ukhtomskiy rayon,
posslok Tomilino, ul. Zhukovskogo, d.15), ARKATOV, Y.A.

Experimental use of artificial hypothermia in preventing spinal
ischemic paralysis. Report No.1. Nov.khir.arkh. no.2:57-62
Mr. Ap '58 (MIRA 11:6)

1. Kafedra fakul'tetskoy khirurgii (zav. - chlen-korrespondent
AMN SSSR prof. B.V. Petrovskiy) pediatricheskogo fakul'teta 2-go
Moskovskogo meditsinskogo instituta.

(AORTA--SURGERY)
(REFRIGERATION ANESTHESIA)
(PARALYSIS)

Доклад
EXCERPTA MEDICA Sec 5 Vol 12/5 Gen. Path. May 59

1203. EXAMINATION OF THE SPINAL CORD OF DOGS SUBJECTED TO VARIOUS METHODS OF TEMPORARY SHUNTING OF THE AORTA AND PERIPHERAL BLOOD VESSELS (Russian text) - Arkatov V. A. - ARKH. PATOL. 1958, 20/6 (31-36) Illus. 3

The experiments were performed on 79 dogs. Structural changes of the ganglion cells of the spinal cord were observed in aortic shunts, even when there were no functional disturbances. Temporary (up to 2 hr.) shunting with elimination of the total thoracic section of the aorta caused no functional changes in the hind legs, and the changes in the spinal cord were reversible. No changes were produced in the spinal cord by temporary shunting with stricture of the aorta or the peripheral vessels to 3 mm. and elimination of the thoracic aorta at 2 levels as well as ligation of 8 to 9 intercostal arteries. However, when the vascular stricture leaves an opening of less than 2 mm., severe destructive spinal changes occur and complete occlusion of the aorta is fatal because the spinal cord below the circulatory disturbance is completely destroyed.

Brandt - Berlin

ARKATOV, V.A.

Anatomical and morphological study of the regeneration of experimental wounds of the aorta in experiment. Khirurgia 34 no.12:60-65 D '58.

(MIRA 12:1)

1. Iz kliniki gospital'noy khirurgii (dir. - deystvitel'nyy chlen AMN SSSR Prof. B.V. Petrovskiy) I Moskovskogo ordena Lenina Meditsinskogo instituta imeni I.M. Sechenova.

(AORTA, wds. & inj.

regen. of lateral wds. in dogs (Rus))

PETROVSKIY, B.V.; SOLOV'YEV, G.M.; ARKATOV, V.A.; KHODAS, M.Ya.

Experience in working with an apparatus for artificial blood circulation from the Research Institute for Experimental Surgical Apparatus and Instruments. Trudy NIEKHAI no.5:119-124 '61.
(MIRA 15:8)

1. Iz gosptal'noy khirurgicheskoy kliniki 1-go Moskovskogo ordena Lenina meditsinskogo instituta im. I.M.Sechenova.
(PERFUSION PUMP (HEART))

PETROVSKIY, B.V.; SOLOV'YEV, G.M.; KHODAS, M.Ya.; ARKATOV, V.A.;
ZHIDOVETSKAYA, A.Sh.; TUMASHEVA, N.N.

Some hematological and biochemical indices in experimental
extracorporeal circulation; preliminary report. Trudy I-go
MMI 33:15-24 '64. (MIRA 18:3)

ARKATOV, V.A.

Method of blood oxygenation with pure oxygen. Trudy 1-go MMI 33:
132-138 '64. (MIRA 18:3)

KOLYUTSKAYA, O.D.; ARKATOV, V.A.

Discharge of blood from the heart by shunting brought about by
a high and prolonged ligature of the aorta in moderate hypothermia.
Trudy 1-go MMI 33:215-218 '64.. (MIRA 18:3)

ARKATOV, V.N.

Use of a portable traction apparatus in combination with a plaster cast in treating fractures of long bones. Ortop.travm.protez. Moskva no.1:72-73 Ja-F '55. (MLRA 8:10)

1. Iz oblastnoy bol'nitsy g. Kurgana (glavnyy vrach - A.Ya.Dedov)
(FRACTURES, therapy,
traction appar. with plaster cast)
(PLASTER CASTS,
in fract. of long bones, with traction appar.)
(ORTHOPEDIC, apparatus and instruments,
traction appar., ther. of fract. of long bone,
with plaster casts)

ARKATOV, V.N.; UMOVA, N.A.

Single-stage skeletal repositioning and fixation of fragments in
old and irreducible fractures of the bones of the extremities.
Ortop.travm.i protez. 20 no.9:30-35 S '59. (MIRA 13:2)

1. Iz zheleznodorozhnoy bol'nitsy (na chal'nik - A.I. Kurilev) st.
Kurgan Yuzhno-Ural'skoy zheleznoy dorogi.
(EXTREMITIES, fract. & disloc.)
(FRACTURES UNUNITED surg.)

ARKATOV, V. N.

Skeletal reposition of inveterate and complicated fractures of the upper and lower end of the humerus. *Khirurgiia* 38 no.5: 103-106 My '62. (MIRA 15:6)

1. Iz kafedry obshchey khirurgii (zav. - prof. V. P. Bodulin) Stavropol'skogo meditsinskogo instituta na baze 2-go khirurgicheskogo otdeleniya (zav. V. A. Kutulutskiy) Krayevoy klinicheskoy bol'nitsy (glavnyy vrach Yu. P. Zotov)

(HUMERUS--FRACTURE)

ARKATOV, V.N., ordinator

Closed reposition and fixation of fractures of the bones of extremities by using intramedullar pins, a bone sutures, and other fastening methods. Uch. zap. Stavr. gos. med. inst. 12:265-266 '63. (MIRA 17:9)

1. Kafedra obshchey khirurgii (zav. prof. Yu.S. Gilevich) Stavropol'skogo gosudarstvennogo meditsinskogo instituta i 2-go khirurgicheskogo otdeleniye Stavropol'skoy krayevoy klinicheskoy bol'nitsy (galvnyy vrach P.F. Shatskaya).

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Central Nervous System. S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16918

Author : Arkatov, V. S.

Inst : Not given

Title : Investigation of the Spinal Cord of Dogs Which Were Subjected to Various Methods of Temporary Shunting of the Aorta and Peripheral Vessels

Orig Pub : Arkhiv patologii, 1958, 20, No 6, 31-36

Abstract : It was shown on 79 animals that during shunting and connected with it decrease of blood flow of the thoracic portion of the aorta (A), the changes in the nerve cells of the spinal cord (SC) are observed even

Card 1/3

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Central Nervous System. S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16918

when the functions of the hind extremities and organs of the abdominal and pelvic cavities are not disturbed. The exclusion of the whole thoracic portion of A (temporary shunt below the left subclavian artery and above the diaphragm) leads to reversible changes in SC without disturbance of the function of the hind extremities. A temporary shunt with a diameter of 3 mm and more, applied on A, and ligation of 8-9 intercostal arteries, does not induce changes in SC. A temporary shunt with a diameter of 2 mm and less leads to coarse destructive changes in SC. In complete closing of the A lumen,

Card 2/3

KUZINA, A.I.; MUKHAROVA, L.S. Primalni uchastiy: VLADIMIROVA, A.I.;
ARKATOVSKIY, P.A.; IL'INA, D.A.; SHTIN, V.M.

Natural tularemia foci in Kemerovo Province. Trudy Tom NIIVS
12:43-47 '60 (MIRA 16:11)

1. Kafedra epidemiologii Leningradskogo sanitarno-gigiyeni-
cheskogo meditsinskogo instituta i Kemerovskaya oblastnaya
sanitarno-epidemiologicheskaya stantsiya.

*

ARKAVIN, S. Ya.

188795

USSR/Medicine - Biologicals and Hormones May/June 51

"Biological Activity of Therapeutic Aerosols on the Basis of Experimental Data," S. Ya. Arkavin, I'vov Inst OMD (Protection of Mothers and Children) and Chair of Phar, I'vov Med Inst

"Vop Ped 1 Okhran Mater 1 Det" Vol XIX, No 3, pp 14-21

Cites USSR work on application by the inhalation method of whooping cough bacteriophage, measles reconvalescent serum, anti-measles serum, sulfapyridin, salsofine and penicillin. Describes recent USSR work (under exactly controlled conditions) of

188795

USSR/Medicine - Biologicals and Hormones (Contd) May/June 51

Immunization against tuberculosis with aerosols of BCG, vaccination against diphtheria by the aerosol method, treatment of children with insulin aerosols. Describes special inhalation mask used in treating children.

188795

ARKAVIN, S. YA.

"Study of the Activity of Certain Therapeutic Aerosols."
L'vov State Sci Res Inst for the Protection of Maternity and Childhood, L'vov State Med
Inst, Chair of Pharmacology, L'vov, 1952
(Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnava Letonis', No. 32, 6 Aug 55

ARKAVIN, S. Ya.

CHERNIN, L. B.; ARKAVIN, S. Ya.

Respirator-mask. Gig. sanit., Moskva no.4:27-30 Apr 1952.
(CLML 22:2)

1. Of L'vov Oblast Sanitary Epidemiological Station.

SPASSKIY, Vladislav Akimovich, polkovnik meditsinskoy sluzhby, professor;
ARKAYEV, Viktor Alekseyevich, podpolkovnik meditsinskoy sluzhby,
kandidat meditsinskikh nauk; PETROVSKIY, K.S., polkovnik meditsin-
skoy sluzhby dotsent, redaktor; BEZDENEZHNYKH, P.T., podpolkovnik,
redaktor; MYASNIKOVA, T.F., tekhnicheskiy redaktor

[Military hygiene] Voennaya gigiena. Moskva, Voen. izd-vo Ministerstva
obor. SSSR, 1956. 127 p. (MLRA 9:10)
(MILITARY HYGIENE)

ARKAYEV, V.A., dots.

Hygienic problems in the use of ionizing radiations in the food industry. Gig. i san. 23 no.10:51-58 0 '58 (MIRA 11:11)

1. Iz voyennoy kafedry i kafedry radiatsionnoy gigiyeny Tsentral'nogo instituta usovershenstvovaniya vrachey.

(RADIATIONS, eff.
sterilization of foods (Rus))

(FOOD,
sterilization by radiation (Rus))

SPASSKIY, Vladislav Akimovich, polkovnik med. sluzhby, prof.;
ARKAYEV, Viktor Alekseyevich, polkovnik, med. sluzhby,
dots.; Primali uchastiye: ANTIPIN, G.M., podpolkovnik
med. sluzhby; POLYAKOV, V.I., podpolkovnik med. sluzhby;
PAKHOMOV, V.I., polkovnik med. sluzhby, red.; CHAPAYEVA,
R.I., tekhn. red.

[Military hygiene) Voennaya gigiena. Izd. 2., perer. i dop.
Moskva, Voenizdat, 1962. 167 p. (MIRA 15:8)
(Military hygiene)

ARKDZHOVSKIY, V.N.

S/191/63/000/G04/010/015
B101/B186

AUTHORS: Volk, A. I., Arkdzhovskiy, V. N.

TITLE: Some theoretical and practical conditions for producing transparent glass reinforced plastics

PERIODICAL: Plasticheskiye massy, no. 4, 1963, 46 - 49

TEXT: A general definition is given of the concepts light absorption and permeability, based on western publications including Kunststoffe 48, no. 5, 20 (1958). Various factors are discussed that affect the light scattering and permeability of glass reinforced plastics, such as transparency and colorlessness of glass fiber and binder, chemical composition of the lubricant and its solubility in the binder. The following binder is suggested: 100 parts by weight of polydiethylene glycol maleinate phthalate containing 25 parts by weight of styrene, and 25 parts by weight of methyl methacrylate. n_D^{20} of this binder is 1.547 which is similar to that of aluminoboro-silicate being 1.548. Specimens of glass reinforced plastics 1.5 mm thick were produced from this binder and 30% glass fiber without lubricant. Their permeability to light was 86% and their physicomechanical

Card 1/2

Some theoretical and practical...

S/191/63/000/004/010/015
B101/B186

properties were considerably improved by thermal treatment at 80°C for 3 hrs. Specimens containing glass fiber treated with AC-1 (AS-1) lubricant or poly-vinyl acetate, had a permeability of only 80 and 55 - 60%, respectively. Glass reinforced plastics showed a bending strength of 1500 - 1600 kg/cm², tensile strength = 1200 - 1300 kg/cm², impact strength = 30 - 40 kg·cm/cm², permeability to light = 80 - 85%. The binder suggested is weatherproof and has a low viscosity. There are 4 figures. The English-language reference is: British Plastics, Sept. 372 - 405 (1958).

Card 2/2

L 8504-66 EWT(m)/EWP(v)/EWP(j)/T/ETC(m) WW/RM

ACC NR: AP5028477 SOURCE CODE: UR/0286/65/000/020/0063/0063

AUTHORS: Retner, I. S.; Volovich, Z. M.; Baklanov, G. M.; Kulakovskiy, V. A.;
 Gorskiy, B. Z.; Volk, A. I.-Kh.; Andreyev, A. A.; Arkshovskiy, V. N.; Timofeyev, N.
 Ya.; Meytin, R. Ya.

ORG: none

TITLE: A device for saturating fibrous reinforcing materials with a binder. Class 39, No. 175641

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 63

TOPIC TAGS: bonding material, industrial instrument, mechanical motion instrument

ABSTRACT: This Author Certificate presents a device for saturating fibrous reinforcing materials with a binder. The device contains a mechanism for moving the material over a rigid base and a working percussion instrument. The latter is set into reciprocating motion in a plane normal to the motion of the material. To increase the productivity of the device while improving the saturation quality, the working instrument consists of spring-loaded plates mounted on a common traverse. Elastic supports are fixed to that side of the plates which is toward the material being worked.

SUB CODE: 13/ SUBM DATE: 13Dec62

BVIY Card 1/1 UDC: 678.026.2

L 21192-66 EWT(m)/EWP(v)/EWP(j)/T WW/GS/RM
ACC NR: AT6006254 (A) SOURCE CODE: UR/0000/65/000/000/0137/0143

AUTHOR: Shapoval, V. I.; Arkdzhovskiy, V. N.; Turchak, V. N. 32
241

ORG: VNII New Construction Materials, Kiev Department (VNII novykh stroitelnykh materialov, Kiyevskoye otdeleniye) 15.4.65

TITLE: Investigation of certain polyester adhesives for transparent glassy particles

SOURCE: AN UkrSSR. Modifikatsiya svoystv polimerov i polimernykh materialov (Modification of the properties of polymers and polymeric materials). Kiev, Naukova dumka, 1965, 137-143

TOPIC TAGS: adhesive, polyester plastic, plastic, plastic strength, copolymer, phthalic acid 15

ABSTRACT: The preparation of polyester adhesives for transparent glassy plastics was investigated with the aim of developing an adhesive with a high index of refraction. The adhesives were prepared by copolymerization/mixtures of mono- or diethylene glycol with phthalic and maleic anhydride adipic acid, styrene and methylmethacrylate in various molar ratios. The polycondensation reactions were conducted for 2

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ACC NR: AT6006254

2 hours at 120° and 180°C. The best adhesive, polydiethyleneglycolmaleinatephthalate, was prepared using the following mixture: (5 moles diethylene glycol, 4 moles maleic anhydride, 1 mol phthalic anhydride, up to 100 parts) and 38 parts styrene, and 12 parts methylmethacrylate. Using this adhesive as a base, a glassy plastic with 80% transmission and static bending strength limits of 1800-2200 kg/cm² was prepared. It was found that the refractive index of polyesters decreases with increasing length of molecules of aliphatic acids and glycols. The use of aromatic acids results in higher refractive indices. In the case of aromatic acids, there is a linear relationship between the acid number and the index of refraction. Orig. art. has: 3 figures, 4 tables.

SUB CODE: 11/

SUBM DATE: 06Oct65/

ORIG REF: 007/

OTH REF: 000

Card 2/2 *db*

SHADRIKOV, I., brigadir molochnotovarnoy fermy; BANNOVA, T. pomoshchnik brigadira, chlen rabocheho komiteta; TUMANDEYEVA, L., profgruporg; KAYMAKINA, Ye., doyarka; ANTIPOVA, Yu., doyarka; PICHUKOVA, M., podsmennaya doyarka; ARKHANDEYEV, B., skotnik; NURBAKHMETOVA, R., telyatnitsa.

Disseminate the progressive practice among all state farm workers. Sov. profsoiuzy 17 no. 5:12-14 Mr '61. (MIRA 14:2)

1. Sovkhoz "Kanash," Kuybyshevskoy oblasti.
(Kuybyshev Province--Dairying) (Socialist competition)

ARKHANGELOV, M. N.

Sanitarno-Gigiencheskie Issledovania (Khimicheskie Metody i Mikroanaliz)
(Sanitary-Hygienic Investigation (Chemical Methods and Microanalysis), 151 p.,
Moscow, 1950.

ARNHANGELOV, N. N.

"A Sanitary-Hygienic Investigation." Cand Med Sci, Central Inst
for the Advanced Training of Physicians, 19 Oct 54. (VM, 24 Sep 54)

SO: Sum 432, 29 Mar 55

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 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

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LIST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 100 AND 4TH ORDERS

ARKHANGELOV, S. L. 7
 CK

A simple method for detecting mercury and arsenic when both are present. S. L. Arkhangelov. *Lab. Prakt.* (U. S. S. R.) 1937, No. 3, 17-23. The sulfides of Pb⁺⁺, Cu⁺⁺, Cd⁺⁺ and Bi⁺⁺⁺ are sepd. from HgS and As₂S₃ by heating with HNO₃ (sp. gr. 1.2). The soln. contg. both Hg⁺⁺ and As⁺⁺⁺ is treated with H₂S. The filtered and washed sulfides are dissolved by boiling with aqua regia. A part of the soln. is dild. and tested for Hg with SnCl₂ and with a Cu plate. The remaining soln. is evapd. almost to dryness, and the residue dissolved in hot water. To the soln. NH₄OH is added, the soln. filtered and Mg mixt. is added to the boiling filtrate to ppt. MgNH₄AsO₄·6H₂O. W. R. Henn

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

METALLURGICAL LITERATURE CLASSIFICATION

ARKHANGELOV, V. N.

A.C.S.

Chemistry + Physics

Simplified method of testing for K^+ , Na^+ , NH_4^+ , and Mg^{2+} in the presence of each other. S. I. ARKHANGELOVA AND V. N. ARKHANGELOV. *Trudy Salsingrad. Med. Inst.*, 6, 137-40 (1940); *Russ. Referat. Zhur.*, 4 [3] 50 (1941).—The simplification consists in boiling the unknown solution made alkaline instead of igniting it to remove the NH_4 salts. The formation of a precipitate on the addition of a base indicates Mg. After NH_4 and Mg are filtered off, K is determined with hexacobaltinitrite or with acid potassium tartrate. Na is determined with K pyroantimonate. M.Ho.

ARKHANGELOVA, S.L.

A.C.S.

Chemistry + Physics

Simplified method of testing for K^+ , Na^+ , NH_4^+ , and Mg^{++} in the presence of each other. S. L. ARKHANGELOVA AND V. N. ARKHANGELOV. *Trudy Saltgrad. Med. Inst.*, 4, 137-46 (1940); *Khim. Referat. Zhur.*, 4 [3] 50 (1941).--The simplification consists in boiling the unknown solution made alkaline instead of igniting it to remove the NH_4 salts. The formation of a precipitate on the addition of a base indicates Mg. After NH_4 and Mg are filtered off, K is determined with hexacobaltinitrite or with acid potassium tartrate. Na is determined with K pyroantimonate. M.Ho.

ANDREYEV, I.D., red.; ARKHANGEL'SK, L.M., red.; RUTKEVICH, M.N.,
red.; STEMPKOVSKAYA, V.I., red.; VIKTOROVA, V., red.;
CHEREMNYKH, I., mladshiy red.; NOGINA, N., tekhn.red.

[Practice as the criterium of scientific truth] Praktika -
kriterii istiny v nauke. Moskva, Izd-vo sotsial'no-ekon.
lit-ry, 1960. 461 p. (MIRA 14:3)
(Science--Philosophy)

ARKHANGEL'SKAYA, A. A., LAZAREV, V. G. and ROGINSKIY, V. N.

"A Machine for the Synthesis of Contact Poles."

report presented at All-Union Conference on Problems in the Theory of Relay Devices,
Inst. for Automation and Remote Control AN USSR, 3-9 Oct 1957.
Vestnik AN SSSR, 1958, No. 1, v. 28, pp. 131-132. (autor, Ostianu, V. M.)

ARKHANGEL'SKAYA, A.A.; LAZAREV, V.G.; ROGINSKIY, V.N.

Machine for the synthesis of contact circuits. Probl. pered. inform.
no.1:41-52 '59. (MIRA 13:3)
(Switching theory) (Electric relays)

ARKHANGEL'SKAYA, A.A.

6(7)

13

PHASE I BOOK EXPLOITATION

SOV/3016

Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii

Problemy peredachi informatsii. vyp. 1: Postroyeniye skhem i setey svyazi. (Problems of Information Transmission. Nr. 1: Design of Communications Circuits and Networks) Moscow, Izd-vo AN SSSR, 1959. 163 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: G. Ye. Pevzner; Tech. Ed.: A. P. Guseva; Editorial Board: A. A. Kharkevich (Resp. Ed.), V. N. Kuznetsov, I. A. Ovseyevich, V. N. Roginskiy (Resp. Ed. of this Issue), V. G. Solomonov (Deputy Resp. Ed.)

PURPOSE: This collection of articles is intended for specialists in communications theory.

COVERAGE: This collection of articles by scientists at the Laboratory of Systems for the Transmission of Information, Academy of Sciences, USSR, is a continuation of a series of collections published earlier under the title "Sbornik nauchnykh rabot po provodnoy svyazi" ("Collection of Scientific Works on Wire Card 1/8

Problems of Information (Cont.)

SOV/3016

Communications") References are given after each article. A bibliography on automatic telephone systems (ATS) with crossbar switches is given in the appendix. This bibliography is considered to be of special interest in connection with the introduction in the USSR of the crossbar system.

TABLE OF CONTENTS:

Foreword	3
Roginskiy, V. N. Graphical Method of Designing Multipolar Contact Circuits	5
This paper was presented at a session of the Scientific and Technical Society of Radio Engineering and Electro-communications imeni A. S. Popov on May 10, 1956. The author discusses a new method of synthesizing relay circuits providing series-parallel and bridge-contact circuits, and a method for selecting circuits with a minimum number of contacts and with automatic accounting for neutral and	

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unutilized states. According to the author, this method in certain cases results in a more efficient use of circuits than is possible by analytic methods. It also makes possible mechanization of the synthesis of relay systems. There are 9 references, all Soviet.

Arkhangel'skaya, A. A., V. G. Lazarev, and V. N. Roginskiy.
Apparatus for the Synthesis of Contact Circuits

41

This paper was presented at the Laboratory Seminar on October 5, 1956. The authors present basic principles of designing an apparatus for the synthesis of contact (1,k)-terminal networks. This apparatus was developed at the Laboratory on the basis of the graphical method. There are 9 references: 8 Soviet and 1 English.

Lazarev, V. G. Methods of Determining the Number of Relays Necessary for Designing a Relay-Contact Circuit According to Given Operating Conditions

53

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Problems of Information (Cont.)

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system substations with the routing of intercommunications through a regional crossbar system. An evaluation of variations of grouping schemes according to the overall number of connection points is made and the optimum substation grouping scheme is selected and equipped with switching relay-action devices. There are 13 references: 9 Soviet and 4 English

Melik-Gaykazova, E. I., L. I. Smirnova and A. D. Kharkevich.
Experimental Investigation of the Carrying Capacity of the Grouping
Layout of a Telephone System Substation 103

The paper was presented at the Laboratory Seminar on October 26, 1956. The selection of the grouping scheme was specified by the authors on the basis of data obtained from calculations using the method of artificial loading. The substation had a capacity of 100 numbers, with two connection stages for outgoing, and three connection stages for incoming traffic. On the basis of this investigation, the authors determine the most convenient distribution of outgoing trunks among the intermediate switches,

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the necessary number of internal trunks between the incoming and intermediate switches, and the holding sequence of the internal trunks. There are 7 references, 3 Soviet and 4 English.

Analysis of Grouping Lay-out of a Telephone System Substation
Using the Method of Probability Graphs

118

This paper was presented at the Laboratory Seminar on November 23, 1956. A method using probability graphs for calculating the carrying capacity of complex switching networks is presented. A telephone substation with two connection stages for outgoing and with three connection stages for incoming traffic is investigated using probability graphs. On the basis of this investigation the author determines the most convenient graph topology, using cross-bar trunks in developing substation switching. In an appendix a new treatment of the probability graph is presented. There is 1 English reference.

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Povarov, G. N. Structural Theory of Communications Networks 126

This paper was presented at a joint session of the Laboratory Seminar and of the Telephony at MEIS on January 6, 1956. The fundamentals of mathematical analysis of communications networks using matrix algebra are presented. Problems in the structural theory of communications networks are discussed: calculation of the number of tandem trunks between any two stations in the network, determination of the length of the longest and shortest tandem trunk, of the coherence and compactness of the network and of some other parameters. The relationship between the structural theory of communications networks, graphical theory and theory of relay-contact circuits is discussed. There are 17 references: 11 Soviet (including translation), 4 English and 2 German.

Kharkevich, A. D. Bibliography on the Swedish Crossbar System

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Problems of Information (Cont.)

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This bibliography with annotations contains a list of 69 articles, company data and books; 29 information notes and 89 Swedish patents.

Work of Laboratory Seminars on the Development of Scientific Problems of Wire Communication. of the Academy of Sciences, USSR, 1956

AVAILABLE: Library of Congress

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D201/D305

AUTHORS:

Arkhangel'skaya, A.A., Lazarev, V.G., Roginskiy, V.N.
and Sergeyeva, O.P.

TITLE:

A computer for synthesizing relay-switching systems

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 7, 1961, 51-52, abstract 7 V383 (V sb. Probl.
peredachi inform., no. 6, M., AN SSSR, 1960, 5-23)

TEXT: Principles are described of the design of a computer for synthesizing relay systems as designed at the Laboratory of Information Transmission Systems of the AS USSR. The conditions which the synthesizing computer should satisfy are set at a switch panel in the form of inputs and outputs. The circuit diagram of the panel is set to test whether the given conditions can be realized and when it shows that these conditions cannot be realized, it determines the minimum number of relays which have to be used for these conditions to be realized. After this, various variants of the circuits are

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A computer for synthesizing...

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designed and the computer chooses the one which has the minimum number of switches or in which the given distribution of relay switches has been obtained. The device design is based on the graphical method of synthesizing switching multiple-pole networks. The final circuit is shown on a lamp register. 10 references.

[Abstracter's note: Complete translation]

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ARKHANGEL'SKAYA, A-A

PHASE I BOOK EXPLOITATION

SOV/5741

Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii.

Problemy peredachi informatsii. vyp. 8: Postroyeniye skhem reley'nogo deystviya (Problems of Information Transfer. v. 8: Designing of Relay Circuits) Moscow, Izd-vo AN SSSR, 1961. 131 p. Errata printed on the inside of back cover. 2,600 copies printed.

Resp. Ed.: V. N. Roginskiy; Deputy Resp. Ed.: V. G. Solomonov; Tech. Ed.: L. V. Yepifanova.

PURPOSE: This collection of articles is intended for scientific and technical personnel concerned with the transfer of information.

COVERAGE: The book contains eight reports on the designing of relay systems. The reports were submitted by scientific workers of the Laboratoriya sistem peredachi informatsii Akademii nauk SSSR (Laboratory of Information Transfer Systems, AS USSR) to the seminar of the laboratory.

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Problems of Information Transfer (Cont.)

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TABLE OF CONTENTS:

Foreword

3

Lazarev, V. G., O. A. Oganov, and V. N. Roginskiy. Fundamentals in Designing a Contactless Computer for the Synthesis of Relay Switching Circuits

5

The basic principles in designing individual contactless units of a special-purpose high-speed computer used for the synthesis of relay switching circuits are presented. Submitted 12/26/1959.

Arkhangel'skaya, A. A., V. G. Lazarev, and Ch'en Chun-liang. Concerning the Complexity of Realizing Boolean Functions by Switching Circuits

20

In the graphic designing of (1,k)-terminal switching circuits the number of contacts in individual relay is evaluated. The complexity problem in the realization of Boolean functions by switching circuits is reviewed. The upper bound of the number of contacts for relays of a universal (1,k)-terminal network realizing all the set-ups of k Boolean functions of

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Problems of Information Transfer (Cont.)

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of n variables is discussed; the upper and lower bounds of the number of contacts for the relays of a pseudo-universal $(1,k)$ -terminal network which does not realize all the set-ups of k Boolean functions of n variables are obtained. Methods for determining the "capacity" of a computer for the synthesis of switching circuits are proposed on the basis of upper and lower bounds of the number of contacts in the relays of an $(1,k)$ -terminal network. Submitted 5/17/1960.

Ch'en Chün-liang. Concerning the Evaluation of Switching-Circuit Complexity

45

Propositions presented in the preceding article are developed. The problem of evaluating the complexity of switching $(1,k)$ -terminal networks when the graphic method is used in designing circuits, is examined. Formulas for calculating fractions of the set-ups (i.e., the ratio of the number of occurrences of specific functions to the total number of the occurrences of functions) of k Boolean functions of

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Problems of Information Transfer (Cont.)

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n variables are derived for the case when they are realized by a given number of branches and contacts in a single cross section, as well as by a definite number of contacts in the circuit as a whole. In the second instance the fact that the occurrence of Boolean functions on the cross section is not of equal probability is taken into account. Submitted 4/16/1960.

Roginskiy, V. N. Graphic Designing of Switching Circuits With Bypass Paths

67

General methods are presented for the transformation of set-up numbers for a graphic synthesis of multi-terminal switching networks, taking into account bypass paths which are formed in connection with the construction of direct deductions. A method is given for clarifying different variants arising from the nonsinglevaluedness of the set-ups during the construction of direct deductions. Submitted 2/17/1960.

Card 4/7

Problems of Information Transfer (Cont.)

SOV/5741

Ch'en Chün-liang. Concerning the Distribution of Probabilities of Occurrence of Boolean Functions

74

The article discusses the problem of variation in probability distribution of the occurrence of Boolean functions passing from one cross section to another in the presence of direct deductions when the switching circuits are designed by the graphic or symbolic method. Formulas are derived for calculating the probability of occurrence of Boolean functions in various cross sections, provided the probability distribution of their appearance on zero cross section is known. Submitted 3/12/1960.

Sagalovich, Yu. L. The Measure of Ordering of a Boolean Function

88

On the basis of the results of writing switching circuits in the form of Boolean functions, the value k is introduced as a minimum number of set-ups of variable values sufficient for identifying a Boolean function.

Card 5/7

Problems of Information Transfer (Cont.)

SOV/5741

Methods of calculating this value which utilize the properties of various classes of Boolean functions, as well as methods of evaluating it, are given. The method of designing the inertia group of a Boolean function is completed, and a scheme is designed which permits a) carrying out group transformations of Boolean functions; b) constructing equivalent (in the sense of noiseproofness) uniform codes.
Submitted 6/26/1959.

Lazarev, V. G., and O. A. Oganev. Graphs-Analytical Method of the Synthesis of Contactless Relay Circuits

109

The method of plotting a block-diagram with parametric relationships of a logical (1,k)-terminal network which realizes Boolean functions using logical gates AND, OR, and NOT, is studied.
Submitted 2/17/1960.

Maystrova, T. L., and V. N. Roginskiy. Relay Circuits With Parametric Relationships and Many-Valued Logic

121

Operating conditions of a relay in a circuit with parametric relationships are examined. It is

Card 6/7

37348

S/194/62/000/003/024/066
D230/D301

16.0600

AUTHORS: Arkhangel'skaya, A. A., Lazarev, V. G. and Ch'en, Chun-liang

TITLE: On the contact complexity of Boolean functions

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 3, 1962, abstract 3-2-143ya (Probl. peredachi informatsii. Vyp. 8. M., AN SSSR, 1961, 20-44)

TEXT: In the design of relay circuits by a graphical method or by a cascade method, it is important to decide on the required number of contacts on separate relays (circuit sections) or, alternatively, what part of the total number of possible circuits can be realized by a given number of contacts on each relay. A possible number of sets with k outputs of n relays requiring contacts on j -th section is equal to:

Card 1/3

On the contact ...

S/194/62/000/003/024/066
D230/D301

$$Q_3^j = \left(2^{2^{n-j}} - 1 \right) - \left(2^{2^{n-(j+1)}} - 1 \right)$$

Upper estimate of contact number on j-th section is:

$$L_3^j \leq 2_{\min} \left\{ k 2^j; \left[2^{2^{n-(j+1)}} (2^{2^{n-(j+1)}} - 2) + 1 \right] \right\}$$

A reduction of the required number of contacts is made by direct deductions. (1, k) - pole, called pseudo-universal, can realize $\lambda 2^{k 2^n}$ possible sets of k Boolean functions, where $\lambda (0 < \lambda < 1)$ - realizable set fraction for a given contact number being less than that required for the realization of all functions. Calculation of - "traffic capacity" of the pseudo-universal (1,k) - pole with equal

Card 2/3

ARKHANGEL SKAYA, A.A.; YERSHOV, V.A.

Construction of switching systems for the commutation of
pulse-time channels. Probl. pered. inform. no.12:95-104
'63. (MIRA 17:10)

L 24923-65 EWA(h)/EWT(1) Feb GG
ACCESSION NR: AT5001698

S/2945/64/000/017/0016/0026

AUTHOR: Arkhangel'skaya, A. A.; V. Arshov, V. A.; Roginskiy, V. N. (Doctor of technical sciences)

TITLE: Multi-coordinate switching systems

21
210
641

SOURCE: AN SSSR. Institut problem peredachi informatsii. Problemy peredachi informatsii, no. 17, 1964. Printsipy postroyeniya satey i sistem upravleniya (Principles of network construction and control systems), 16-26

TOPIC TAGS: switching system, multicoordinate switching system, spatial switching, multiplexing, information transmission, space coordinate, control system

ABSTRACT: The efficiency of multi-coordinate switching systems as compared with purely spatial systems, especially the bulk of spatial switching equipment, is demonstrated. The use of multi-coordinate systems for switching of signals and data is compared with the use of multiplexing. It is shown that the use of multi-coordinate systems for switching a single card multiplex, in space, makes it possible to use a larger number of indexes for switching than for channel separation. Only com-

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ACCESSION NR: AT5001698

paratively practicable switching systems without blocking, which do not yield internal losses, are considered, permitting comparison with spatial switching systems for the same service characteristics. It is generally believed that the shift to systems which are not completely practicable, with separation of all entering channels into two categories or parts, is not necessary. It is possible to direct several channels, with different characteristics, to different parts of the switching system, and to use the same parts for different channels. This is especially true for systems with a large number of channels, which are used for the transmission of signals with different characteristics.

ASSOCIATION Institut problem peredachi informatsii AN SSSR Informatsion transfer problems institute, AN SSSR)

SUBMITTED 01

ENCL: 00

FILED: 13

M. REF SOV: 007

CHSR: 011

Card 2/2

ARKHANGEL'SKAYA, A.A.; YERSHOV, V.A.; ROGENSKIY, V.N.

Principles of the construction of a unified system "multiplexing -
switching." Elektrosviaz' 19 no.5:40-49 My '65.

(MIRA 18:6)

ARKHANGEL'SKAYA, A.D.

A new spore complex and the boundary between the middle and upper Devonian in the Volga-Ural region. Dokl. AN SSSR 142 no.4:891-892 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut. Predstavleno akademikom D.V.Nalivkinym. (Volga-Ural Region--Geology, Stratigraphic)

ARKHANGEL'SKAYA, A.D.

Delineation of the Ol'khovskii horizon of the Devonian of the
Russian Platform. Dokl. AN SSSR 149 no.2:378-380 Mr '63.
(MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanyy institut. Predstavleno akademikom N.M.Strakhovym.
(Russian Platform—Geology, Stratigraphic)

ARKHANGEL'SKAYA, A.D.

New spore species from Devonian sediments in the Russian
Platform. Trudy VNIGNI no. 37:18-30 '63. (MIRA 16:8)

FILIMONOVA, A.B.; ARKHANGEL'SKAYA, A.D.

Spore complex in the Vorob'yevka horizon of the Middle
Devonian in the Russian Platform. Trudy VNIGNI no.37:31-36
'63. (MIRA 16:8)

ARKHANGEL'SKAYA, A.D.

New species of spores from sediments of the Voronezh horizon in the western Tatar A.S.S.R. Trudy VNIGNI no.27:266-271 '60.

(MIRA 17:3)

GRZHIVO, V.S.; NEMETS, S.M.; ARKHANGEL'SKAYA, A.P.; BERKH, M.S.

Use of various vegetable oils in the preparation of canned vegetables.
Kons. i ov. prem. 12 no. 4:17-20 Ap '57. (MIRA 10:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i oveshch-
esushil'noy promyshlennosti. (Vegetables--Preservation) (Oils and fats, Edible)

GRZHIVO, V.S.; ARKHANGEL'SKAYA, A.P.

Rapid determination of the moisture content of dried fruits.
Kons. i ov. prom. 13 no.9:40-42 S '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy
i ovoshchesushil'noy promyshlennosti.
(Fruit, Dried--Analysis)

OC NR: 0-66 BKT(m)/BWP(j)/E RM
AP5026529

AUTHORS: Yeliseyeva, Y. I. 44
Zubrikov, M. E. 44
Kurabyan, K. M. 44
Kryuchkova, M. P. 44
Ilichev, G. I. 44
Tonova, M. I. 44
Loseva, Y. A. 44
Morguliev, Y. A. 44

SOURCE CODE: UR/0286/65/000/019/0070/0070
Metelkin, A. I. 44
Khandozhko, Ye. M. 44
Arkhangelskiy, A. A. 44

ORG: none

TITLE: Method for obtaining film-forming materials and impregnating materials for trimming and filling of natural and artificial leather. Class 39, No. 17527/5

SOURCE: Byulleten' Isobreteniy i tovarnykh znakov, no. 19, 1965, 70

TOPIC TAGS: leather, polymer, protein, vinyl plastic, acrylic plastic

ABSTRACT: This Author Certificate presents a method for obtaining film-forming and impregnating materials for trimming and filling of natural and artificial leather by modification of vinyl, for instance, acrylic and methacrylic monomers by means of proteins. To increase the thermal, acetone, and water stability of coatings and the durability and filling of the material structure, the starting monomers are emulsified and filling of the material structure. The emulsification is followed by
670.744.32-416
677.062.524.1

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L 8958-66

ACC NR: AP5026529

polymerization in the presence of oxidation-reduction initiating systems.

SUB CODE: 07/ SUBM DATE: 09Feb62

BYK
Card 2/2

ARKHANGEL'SKAYA, A.S.

USSR/Chemical Technology - Chemical Products and Their
Application. Pesticides.

I-4

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2341

Author : Bogdarina, A.A., Gromovaya, Ye.F., Arkhangel'skaya, A.S.

Inst : All-Union Institute of Plant Protection.

Title : Residual Amounts of DDT on Fruit Crop Depending on the
Form of Application of the Insecticide.

Orig Pub : Tr. Vses. in-ta zashchity rast., 1956, No 7, 160-164

Abstract : By the method of ultraviolet absorption spectroscopy a
determination was made of the amount of DDT that remains
on apples after they have been sprayed, 4 times, with
emulsion (E) and suspension (S), each containing a 0.2%
concentration of DDT (prepared with a 30% preparation).
After 53 days following the last application a larger
amount of DDT was found on the surface, in the skin

Card 1/2

USSR/Chemical Technology - Chemical Products and Their
Application. Pesticides.

I-4

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2341

and within the pulp of fruit treated with E spray (4.85 mg/kg), than of those treated with S (0.9 mg/kg); almost the entire amount of E was contained in the skin and the thin, adjoining layer of pulp. It is recommended to carry out the last two treatments not with an E but with S, and not later than 1.5 months prior to harvesting of the crop.

Card 2/2

ARKHANGEL'SKAYA, A. V. (Moskva)

Transition from the wave to quantum conceptions of light. Fiz.
v shkole 22 no.4:44-46 J1-Ag '62. (MIRA 15:10)

(Light)

USSR / Microbiology. Microbes Pathogenic to Man and F-5
Animals. Bacteria. Bacteria of the Intestinal
Group.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72164.

Author : Arkhangol'skaya, B. Ye.
Inst : Institute of Veterinary Medicine of the Kazakh
Affiliate of the All-Union Academy of Agricult-
ural Sciences imeni V. I. Lenin.
Title : Vaccine Against Paratyphoid in Calves Prepared
by the Tanker Method and a Study of Its Proper-
ties.

Orig Pub: Tr. In-ta vet. Kazakhsk. fil. V. SKENIL, 1957,
8, 108-117.

Abstract: No abstract.

Card 1/1

ALEKSEYEVA, A. M.; ARKHANGELSKAYA, G. G.

"New Data on the Biosynthesis of Creatine."

report submitted for 6th Intl Biochemistry Cong, New York City, 26 Jul-1 Aug 1964.

IL'IN, L.A.; ARKHANGEL'SKAYA, G.V.; NORETS, T.A.

Comparative effectiveness of some complex-forming agents on the more rapid excretion of Zn^{35} from the organism. Radiobiologia 4 no.6:926-927 '64. (MIRA 18:7)

1. Leningradskiy nauchno-issledovatel'skiy institut radiatsionnoy gigiyeny.

ARKHANGEL'SKAYA, G. V., Cand Med Sci -- (diss) "Materials for the Hygienic Characterization of the Industrial Dust of Press Powders of Plastic ~~Materials~~ (Phenol Aldehyde Plastics and Amino Plastics)." Mos, 1957. 15 pp (1st Mos Order of Lenin Med Inst im I. M. Sechenov), 200 copies (K^I, 49-57, 115)

ARKHANGEL'SKAYA
ARKHANGEL'SKAYA, G.V. (Moskva)

Materials on hygienic rating of industrial dust from plastics.
Gig.truda i prof.zab. no.4:29-34 J1-Ag '57. (MIRA 10:11)

1. Kafedra gigiyeny truda I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova.
(PLASTICS--TOXICOLOGY) (DUST)

ARKHANGEL'SKAYA, G.V.

Hygienic characteristics of dust from condensation plastics.
Trudy 1-go MMI 5:47-56 '59. (MIRA 13:8)

1. Iz kafedry gigiyeny truda (zav. - prof. Z.I. Izrael'son)
2-go Moskovskogo ordena Lenina meditsinskogo instituta im.
I.M. Sechenova.

(PLASTICS—TOXICOLOGY)

IL'IN, L.A.; NORETS, T.A.; ARKHLANGEL'SKAYA, G.V.; SHCHERBAN', S.I.

Effect of complex-forming substances on the magnitude of the tissue dose of radiation in the kidneys following administration of radioactive substances. Med. rad. 8 no.12:43-47 D '63.
(MIRA 17:8)

1. Iz Leningradskego nauchno-issledovatel'skogo instituta radiatsionnoy gigiyeny Ministerstva zdravookhraneniya RSFSR i TSentral'nogo nauchno-issledovatel'skogo instituta meĉ. tsinskoy radiologii.

ANKHANGEL'SKAYA, I.A.

Pyometra as complication of uterine cancer. Akush. gin. no.3:81-82
May-June 1953. (GIML 25:1)

1. Of the Gynecology Division of Sverdlovsk Oblast Oncological Dispensary (Head -- Doctor Medical Sciences A. N. Lebedeva).