

LUR'YE, Yuliy Yul'yevich; AGASYAN, P.K., red.; ODERBERG, L.N.,  
red.

[Handbook of analytical chemistry] Spravochnik po analiti-  
cheskoi khimii. Izd.2., perer. i dop. Moskva, Khimia,  
1965. 389 p. (MIRA 18:8)

IUR'YE, Yu.Yu.; PANOVA, V.A.

Determination of cyanides and thiocyanates in waste waters.  
Zav.lab. 31 no.4:420-421 '65.

Determination of cyanates in waste waters. Ibid.:421  
(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut  
vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh  
scoruzheniy i inzhenerncy gidrogeclogii.

ISSER, S.A.; LUR'YE, Z.G.

Gastroscopic and roentgenologic parallels in gastric examination.  
Zdrav.Bel. 7 no.11:15-17 N '61. (MIRA 15:11)  
(GASTROSCOPY) (STOMACH--RADIOGRAPHY)

LUR'YE, Z. L. PROF

PA 31/49T11

USSR/Medicine - Literature, Medical  
Medicine - Neurology, Clinics

Aug 48

"Review of Professor M. Neyding's Book, 'Notes on the Clinical Neurology of Tropic Diseases,'" Prof Z. L. Lur'ye, 1 p

"Klin Med" Vol XXVI, No 8

Pamphlet will be read with interest by neuropathologists and doctors interested in tropical medicine. However, it contains many views which cannot as yet be accepted. Published in Odessa, 63 pp.

31/49T11

LUR'YE, Z. L.

Lur'ye, Z. L. and Vasilevich, N. O. and Rabukhin, A. Ye. - "Experience in streptomycin treatment of patients suffering from tubercular meningitis", Trudy Akad. med. nauk SSSR, Vol. II, 1949, p. 85-103,

SO: U-4329, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).

LUR'YE, Z. L. --

Lur'ye, Z. L. -- "Neurogenic disorders of urine elimination," In the symposium:

Voprosy prakt. urologii, Moscow, 1949, p. 119-33

SO: u-5241, 17 December 1953, (Letopis 'zhurnal 'nykh Statey, No. 36, 1949).

1. LUR'YEV, Z. L., Prof.
2. USSR (600)
4. Blood - Circulation
7. "Blood supply to the cerebral cortex in normal and pathological states."  
Prof. B. V. Ognev, ed. Reviewed by Prof. Z. L. Lur'yev.  
Vop. neirokhir. 16 no. 5, 1952

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

LUR'YE, Z.L.

[Disorders of blood circulation in the brain] Rasstroistva mozgovogo  
krovoobrashchenia. Moskva, Medgiz, 1953. 206 p. (MLRA 7:2)  
(Blood--Circulation, Disorders of) (Brain)



LUR'YE, Z.I.

LUR'YE, Z.L., professor (Moscow); YAVCHUNOVSKAYA, M.A. (Moscow)

Pathogenesis and therapy of periodic paralysis. *Klin. med.* 31  
no.11:76-79 N '53. (MLBA 6:12)

1. Iz kliniki nervnykh bolezney (zaveduyushchiy - zasluzhennyy  
deyatel' nauk M.S.Margulis) Tsentral'nogo instituta usovershen-  
stvovaniya vrachey.

(Paralysis)

DAVIDENKOV, S.N. [author]; LUR'YE, Z.L. [reviewer].

"Clinical lectures on nervous disorders." S.N. Davidenkov. Reviewed by Z.L. Lur'e. Zhur.nevr.i psikh. 53 no.9:743-745 S '53. (MLRA 6:9)  
(Nervous system--Diseases) (Davidenkov, Sergei Nikolaevich, 1880- )

LUR'YE, Z.L. (Moskva)

Pathogenesis of dynamic disorders in cerebral blood circulation.  
Zhur.nevr. i psikh. 56 no.6:441-445 '56. (MIRA 9:8)  
(BRAIN, blood supply  
disord., pathogen.)

LUR'YE, Z.L., professor

Controversial clinical and pathogenic aspects in lumbosacral radiculitis. Vop.neirokhir. 21 no.4:40-45 Je-Ag '57. (MIRA 10:10)

1. Nervnoye otdeleniye Moskovskoy 4-y gorodskoy klinicheskoy bol'nitsy.

(NERVES, SPINAL, diseases,  
radiculitis, lumbosacral, clin. & pathogen. aspects  
(Rus))

LUR'YE, Z.L.  
LUR'YE, Z.L., prof.: YAVCHUNOVSKAYA, M.A., kand.med.nauk; ARSHAVSKAYA, B.I.

Temporal arteritis. Sov.med. 21 no.8:29-33 Ag '57. (MIRA 10:12)

1. Iz nervnogo otdeleniya 4-y klinicheskoy bol'nitsy (glavnyy vrach -  
zasluzhennyy vrach RSFSR M.V.Ivanyukov) Moskvy.

(ARTERITIS

face, clin.manifest. (Rus))

(ARTERITIS,

temporal (Rus))

LUR'YE, Z.I., prof. (Moskva)

Lesions of the nervous system in congenital cardiovascular defects.  
Klin.med. 36 no.9:41-45 S '58 (MI 11:10)

1. Iz nervnogo otdeleniya 4-ya gorodskoy klinicheskoy bol'nitsy  
(nauchnyy rukovoditel' prof. Z.I. Lur'ye).  
(CARDIOVASCULAR DEFECTS, CONGENITAL, pathol.  
brain (Rus))  
(BRAIN, pathol.  
in cardiovasc. abnorm (Rus))

LUR'YE, Zinovy L'vovich

[Disorders in cerebral circulation] Rasstroistva mozgovogo  
krovoobrashcheniia. Izd.2., ispr. i dop. Moskva, Medgiz,  
1959. 238 p. (MIRA 13:8)

(BRAIN--BLOOD SUPPLY)

LUR'YE, Z.L., prof. (Moskva)

"Tuberculomas of the brain" by A.I. Arutiunov, IU. A. Zozulia, S.S.  
Oganesian. Reviewed by Z.L. Lar'e. Vrach.delo no.7:773 JI '59.

(MIRA 12:12)

(BRAIN--TUMORS) (TUBERCULOSIS) (ARUTIUNOV, A.I.) (ZOZULIA, IU. A.)  
(OGANESIAN, S.S.)



LUR'YE, Z.L., prof. (Moskva)

Thrombosis of the internal carotid artery [with summary in English,  
p. 62]. Vopr.neirokhir. 23 no.2:12-17 Mr-Apr '59. (MIRA 12:4)

1. Nervnoye otdeleniye 4-y gorodskoy klinicheskoy bol'nitsy, Moskva.  
(ARTERIES, CAROTID, dis.  
thrombosis, internal (Rus))  
(THROMBOSIS, case reports,  
carotid, internal (Rus))

LUR'YE, Z.L., prof.; BRYANTSEVA, R.G.; URZHUMOVA, A.I.

Involvement of the nervous system in acute porphyria. Sov.med. 23  
no.9:107-112 S '59. (MIRA 13:1)

1. Iz nervnogo otdeleniya 4-y gorodskoy klinicheskoy bol'nitsy (glavnyy vrach M.V. Ivanyukov) i nervnogo otdeleniya bol'nitsy No.1 (glavnyy vrach, B.V. Nifontov) Ministerstva zdravookhraneniya RSFSR.  
(PORPHYRIA compl.)  
(NERVOUS SYSTEM dis.)

LUR'YE, Zinoviy L'vovich

[Diseases of the nervous system in internal diseases] Porazheniia  
nervnoi sistemy pri vnutrennikh bolezniakh. Izd.2., perer.i dop.  
Moskva, Medgiz, 1960. 242 p. (MIRA 14:7)  
(NERVOUS SYSTEM--DISEASES)

LUR'YE, Z.L., prof. (Moskva)

Brain abscesses in congenital heart defects. Vop.neirokhir.  
no.4:52-55 '61. (MIRA 14:12)

1. Institut nevrologii AMN SSSR.  
(BRAIN--ABSCESS) (HEART--ABNORMALITIES AND DEFORMITIES)

LUR'YE, Z.L., prof.; BABENKOVA, S.V., ~~land~~ med.nauk

Disorder of the blood circulation in the brain. Zdorov'ie 7 no.9:  
18-19 S '61. (MIRA 14:9)

(BRAIN--BLOOD SUPPLY)

LUR'YE, Z.L., prof.

Treatment and care of cerebral insultus. Med. sestra 20 no.8:  
16-20 Ag '61. (MIRA 14:10)

(BRAIN--DISEASES)

LUR'YE, Z. L.; GETMANSKAYA, Z. M.; YAVCHUNOVSKAYA, M. A.

Hemorrhages into the brain; anatomical, topical and etiological  
diagnosis. Nauch. trudy Inst. nevr. AMN SSSR no.1:62-70 '60.  
(MIRA 15:7)

(BRAIN--HEMORRHAGE)

DROGICHINA, E.A., doktor med. nauk; KEVORK'YAN, A.A., prof.; LUR'YE,  
Z.L., prof.; LISITSA, F.M., dotsent; PENTSIK, A.S., prof.;  
PESHKOVSKIY, G.V., prof.; SHAKHNOVICH, R.A., prof.; DAVIDENKOV,  
S.N., prof., otv. red.; BOGOLEPOV, N.K., prof., zam. otv. red.;

[Multivolume manual on neurology]Mnogotomnoe rukovodstvo po nev-  
fologii. Moskva, Medgiz. Vol.3. Book 2.[Infectious and topic  
diseases of the nervous system]Infektsionnye i toksicheskie bo-  
lezni nervnoi sistemy. 1962. 524 p. (MIRA 15:11)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Davidenkov).

(NERVOUS SYSTEM--DISEASES)



LUR'K, Z. B.

Transport equipment and depots for coal beneficiation and briquette factories Moskva, Ugletekhizdat, 1952. 246 p. (53-19520)

TJ1350.185

1. Conveying machinery.
2. Hoisting machinery.
3. Briquets (Fuel)

1. SHVERNIK, A.M., Eng., LUR'E, Z.S., Eng., NIKOLAEV, V.A., Eng.
2. USSR (600)
4. Conveying Machinery
7. Gravity chute and glass lining. Mekh. trud. rab. 7, no. 2, 1953.

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

LUR'YE, Zakhar Solomonovich; SYRKIN, Lazar' Isaakovich; CHILAYEV, G.A.,  
otvetstvennyy redaktor; RYKOV, N.A., redaktor izdatel'stva;  
ALADOVA, Ye.I., tekhnicheskiiy redaktor

[Transport equipment and depots for coal beneficiation and briquette  
factories] Transportnye ustroistva i sklady na ugleobogatitel'nykh  
i briketnykh fabrikakh. Izd. 2-oe, ispr. i dop. Moskva, Ugletekh-  
izdat, 1956. 322 p. (MLRA 10:3)

(Briquets (Fuel))

(Coal preparation)

(Mine haulage)

LUR'YE, Z.S., inzh.; KHEYFETS, S.Kh., inzh.; GUR'YEV, D.P., inzh.

Collapse of caked layers in fuel bunkers. Elek.sta. 32  
no.8:25-28 Ag '61.

(Electric power plants) (Coaling-stations)

(MIRA 14:10)

SHVERNIK, Aleksandr Mikhaylovich; SOKOLOV, Anatoliy Valentinovich;  
POLUBELOV, Aleksey Sergeevich; KISELEV, Georgiy Ivanovich;  
BERNSHTEYN, Rafail Lazarevich; SLAVUTSKIY, Samuil Oskarovich;  
NEVEL'SHTEYN, Yuriy Grigor'yevich; KONDRATENKO, Leonid  
Fedorovich; LASKIN, Anatoliy Aronovich; LUR'YE, Zakhar  
Solomonovich; MAKAROV, Vladimir Aleksandrovich; NOVÓZHILOV,  
M.G., retsenzent; BILICHENKO, N.Ya., retsenzent; VARSHAVSKIY,  
A.M., retsenzent; TARTAKOVSKIY, B.N., retsenzent. Primali  
uchastnye: ANTONOV, V.A., inzh.; VERBLYUNSKIY, Yu.I., inzh.;  
ZEMSKOV, P.F., otv. red.

[Overall mechanization and automatic control in strip mines]  
Kompleksnaia mekhanizatsiia i avtomatizatsiia na kar'erakh.  
Moskva, Nedra, 1964. 582 p. (MIRA 18:4)

SOV/110-59-1-19/28

**AUTHOR:** Lur'ye, Z.Ya. (Engineer)

**TITLE:** The Class of Accuracy of Electrical Instruments for Inspection Tests on Three-Phase Induction Motors (O klasse tochnosti elektroizmeritel'nykh priborov pri kontrol'nykh ispytaniyakh trekhfaznykh asinkhronnykh dvigateley)

**PERIODICAL:** Vestnik Elektropromyshlennosti, 1959, Nr 1, pp 64-65 (USSR)

**ABSTRACT:** According to standard GOST 7217-54, electrical instruments of accuracy class 0.2 or 0.5 must be used for inspection and type tests on three-phase induction motors. For type tests of course, the highest possible accuracy is required and instruments of this accuracy are necessary. For production tests on machines this high accuracy is not required. An article by Zil'bersheyd published in Vestnik Elektropromyshlennosti, 1948, Nr 3, in which the author concludes that instruments of accuracy class 0.2 or 0.5 are necessary for production tests, is criticised: a method of determining the class of accuracy required in practice is briefly explained. A numerical example is given and it is stated that for inspection testing in

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SOV/110-59-1-19/28

The Class of Accuracy of Electrical Instruments for Inspection Tests  
on Three-Phase Induction Motors

production it is quite sufficient to use instruments of  
class 1.5, which will make most gear much cheaper.  
(See also the next article).  
There are 1 figure and 2 Soviet references.

Card 2/2

SOV/91-59-2-21/33

AUTHORS: Averbukh, G. L., and Lur'ye, Z. Ya., Engineers

TITLE: A Diagram of an Automatic Switch-In of Reserve Current  
(Skhema avtomaticheskogo vvoda rezerva)

PERIODICAL: Energetik, 1959, Nr 2, p 29 (USSR)

ABSTRACT: In this article, the authors criticize a few shortcomings of a diagram of the automatic switch-in of reserve current, suggested by Engineer S. P. Bakumenko and published in Energetik, 1958, Nr 1. In its place they introduce another more reliable diagram. There is one diagram.

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SOV/110-59-5-3/25

AUTHORS: Averbukh, G.L., Engineer, Kogan, I.Ya., Engineer and Lur'ye, Z.Ya., Engineer

TITLE: ~~The Selection of Automatic Cutouts Series A 3100 for Protecting the Circuits of Three-Phase Squirrel-Cage Motors (Vyber ustanovochnykh avtomatov serii AZ100 dlya zashchity tsep'y trekhfaznykh dvigateley s korotkozamknutym rotorom)~~

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 5, pp 12-15 (USSR)

ABSTRACT: IT is most important to select correctly the rated currents and trip settings of protective devices for squirrel-cage motors. It is usual to make such selection on the basis of continuous operation with a limited number of starts per hour. This article gives a method of selecting the rated current of the tripping device protecting a three-phase squirrel-cage motor operating on a repeated short duty cycle with a large number of starts per hour. The method is based on the use of the experimental heating curve of the thermal element of the trip and on its current/time characteristics. Since the thermal element is

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SOV/110-59-5-3/25

The Selection of Automatic Cytouts Series A 3100 for Protecting  
the Circuits of Three-Phase Squirrel-Cage Motors

not a uniform body, the experimental heating curve cannot be expressed by a normal exponential equation. The experimental heating curve, shown in Fig 1, may be resolved into two sections of different time-constants. The first section is from the origin to the knee, with a heating time of the order of 2-3 minutes, and the second section is the rest of the curve. Considering the case of an automatic protective device type A3120 operating with a squirrel-cage motor started 30 times an hour, the cycle time will be 2 minutes and, since this is shorter than the first section of the heating curve, the heating calculations that follow need only be related to this part of the curve. Formula (1) is then given as an approximation to the first part of the heating curve and the method of determining the time constant is explained. The heating curve of the thermal element with a repeated short cycle is shown in Fig 2. The three repeated sections of the curve are: starting time, running time and idling time. After a certain number of operations an

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The Selection of Automatic Cutouts Series A 3100 for Protecting  
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equilibrium condition is reached in which the heat evolved in the thermal element during the cycle is equal to that given out to the surroundings. When this condition is reached, the maximum temperature at the end of a start, corresponding to point A on the graph, should be somewhat below the operating temperature of the trip. The trip is calibrated so that it just does not operate at 110% rated current. To leave some margin of safety, the calculation is made for a maximum temperature rise at point A, equal to the steady-state temperature rise of the thermal element with 105% rated current. In order to determine the permissible overload rating of the thermal element for a given operating cycle, the cyclic heating curve of the element when the equilibrium condition has been reached is then considered. Equations are derived for the three sections of this heating curve and then are combined together to obtain the relationship between the operating time and the overload factor of the trip given in expression (11). The point of intersection between a

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SOV/110-59-5-3/25

The Selection of Automatic Cutouts Series A 3100 for Protecting  
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curve constructed from expression (11) and the current/  
time characteristic of the trip gives the maximum  
permissible overload rating of the trip. By constructing  
a number of such points for different operating cycles as  
shown in Fig 3, the curve of overload factor as function  
of number of operating cycles per hour is obtained and  
shown in Fig 4. These curves are used to select the rated  
current of the automatic tripping device when operating  
with a given number of cycles per hour. A numerical  
example is then worked out for automatic protective  
equipment type A3124 with a rated trip current of 15A and  
the results are plotted in Fig 7 and 8. There are  
8 figures and 1 table.

SUBMITTED: 21st July 1958

Card 4/4

LUR'YE, Z.Ya., inzh. (Zaporozh'ye); TESLENKO, V.P., kand. tekhn. nauk  
(Zaporozh'ye)

Method for studying some automated multiple-motor electric  
drives. Elektrichestvo no.11:50-53 N '63. (MIRA 16:11)

LUR'YE, Z.Ye.

Analysis of transition processes in sheet-metal working lines. Metall.  
gornorud. prom. no. 6. 63-64 N-D '63. (MIRA 1963)

L 07992-67 EWP(k)/EWT(m)/EWP(t)/ETI LJE(c) JD/HW  
ACC NR: AP7001666 SOURCE CODE: UR/0144/66/000/006/0656/0662

AUTHOR: Lur'ye, Z. Ya.; Timovskiy, A. K.; Grushko, V. L.

38  
B

ORC: none

TITLE: Electron model investigation of automated multi-motor electric drive for device for cross cutting rolled steel

SOURCE: IVUZ. Elektromekhanika, no. 6, 1966, 656-662

TOPIC TAGS: metal cutting, automation, nonlinear differential equation

ABSTRACT: The transient processes in an automated system for periodic cutting of continually rolled sheet into lengths are described by complex non-linear differential equations. Due to the difficulty of solution of the equations, the investigation of the dynamics of such systems is often performed using mathematical modeling with continuous-operation electronic machines. This article analysis problems in the investigation of a multi-motor electric drives for such an apparatus using an electronic model. Practical recommendations are presented relative to methods of investigation in consideration of the peculiarities of the technological processes involved. The electron model investigations performed allowed the authors to suggest the following method of investigation:

- 1) Clarification of the structure of the speed control of the temper

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UDC: 621.34+621.771

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mill;

2) Determination of the structure of the compensation units and dynamic components of the stress;

3) Determination of the parameters and correcting links for the automatic control units in loops providing the required static accuracy, stability and quality of the transient process;

4) Clarification of the parameters involved in combined operation of the entire control system. The control system developed has been in operation since 1963. Orig. art. has: 5 figures and 10 formulas. [JPRS: 37,811]

SUB CODE: 13, 12 / SUBM DATE: 30Apr65 / ORIG REF: 006

Card 2/2 *gd*



LUR'YE-KERSKIY, A. YA.

Lur'ye-derskiy, A. Ya.

"A Study of the Phonetics and Composition of the Word in the Fifth Class of the Russian Intermediate School (Theory and Practice)." Kuybyshev State Pedagogical Inst imeni V. V. Kuybyshev. Voroshilovgrad, 1953. (Dissertation for the Degree of Candidate in Pedagogical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

LUR'YE-POKROVSKAYA, T.A.

Rupture of an aortic aneurysm into the duodenum. Vrach. delo no.4:  
415-417 Ap '59.. (MIRA 12:7)

1. Patologoanatomicheskoye otdeleniye (zav. - prof. Ye. I. Chayka)  
bol'nitsy imeni Oktyabr'skoy revolyutsii g. Kiyeva..  
(AORTIC ANEURYSM)

LUR'YE-POKROVSKAYA, T.A. (Kiyev, ul. Tarasovskaya, d.18, kv.15)

Morphological study of the resected portions of the lungs in patients with mitral stenosis. Nov.khir.arkh. no.6:31-38 N-D '59.

(MIRA 13:4)

1. Proektura bol'nitsy im. Oktyabr'skoy revolyutsii (zaveduyushchiy - prof. Ye.I. Chayka) i kafedra torakal'noy khirurgii (zaveduyushchiy - prof. N.M. Amosov) Kiyevskogo instituta usovershenstvovaniya vrachey.  
(MITRAL VALVE--DISEASES) (LUNGS)

KUL'CHUTSKIY, K.I., doktor med. nauk; LUR'YE-POKROVSKAYA, T.A., kand.  
med. nauk; BADAYEVA, L.N.

Neural apparatus of the heart in endocarditis in man and  
under experimental conditions. Vrach. delo no.10:32-56  
0 '63. (MIRA 17:2)

1. Kiyevskiy meditsinskiy institut.

LUR'YEK, V.S.

Double heat treatment of nut taps. Stan.1 instr. vol. 24 no.9:35 S '53.  
(MLRA 6:10)  
(Taps and dies)

LUR'YEV, M. A.

58/49T52

USSR/Engineering  
Boilers

Jun 49

"First Operational Results of the 'KRSh' Boiler System," A. I. Gabriyev, Engr, M. A. Lur'yev, N. S. Rassudov, Cand Tech Sci, 6 1/3 pp

"Za Ekom Top" No 6

Describes the Krochko, Rassudov, Shafran (KRSh) boiler system with an output of 2 tons per hour at a pressure of 20 atm. It is simple in construction, and economical in operation.

58/49T52

LUR'YEV, M. A.

"The Scientific-Technical Conference of Power Engineers of the Foodstuffs Industry,"

SO: Za Ekon., Top., No. 7, 1949.

LUR'YEV, M.A. (Reviewed)

KOLOSKOV, S.P.; LUR'YEV, M.A.; retsenzent; KUZNETSOV, N.M., spetsredaktor;  
KHMELE'NITSKAYA, A.Z., redaktor; TORLIB, E.M., tekhnicheskii  
redaktor

[Boiler installations of food industry plants; design and operation]  
Kotel'nye ustanovki predpriatii pishchevoi promyshlemosti; ustroi-  
stvo i ekspluatatsiia. Moskva, Pishchepromizdat, 1954. 330 p.  
[Microfilm] (MLRA 8:3)

(Steam boilers)



LUR'YEV, YA. L.

Blood - Circulation

Cardiovascular system in anemia. Klin. med. 30 no. 2, Feb. 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

USSR/Human and Animal Physiology (Normal and Pathological) T  
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur Biol., No 6, 1959, 27068

Author : Danilov, N.V., Danilova, T.I., Lurynya, M.K., Mezbulys,  
I.P.

Inst : AS USSR

Title : On Changes of Unconditioned Reflexes in Different Func-  
tional Condition of the Cerebral Cortex of Large Hemis-  
pheres.

Orig Pub : V sb.: Probl. fiziol. tsentr. nervn. sistemy, M.-L.,  
AN SSSR, 1957, 223-228

Abstract : At the time of production of acid conditioned reflex  
(CR) in dog, unconditioned secretion of saliva and gas-  
tric juice decreased. Gastric secretion decreased still  
more in experiments with differentiation and especially

Card 1/2

38233 LUS', E. A.

Tipy innervatsin luchezyapastnogo sustava. Sbornik trudov (arkhang. gos. med. in-t). vyp. 9, 1949, s. 36-40. - Bibliogr: 15 nazv.

LUS', E. A.

LUS', E. A. "The problem of the topographic anatomy of the large intestine." First Leningrad Medical Inst imeni I. P. Pavlov. Arkhangel'sk State Medical Inst. Arkhangel'sk, 1956.  
(Dissertation for the Degree of Candidate in Sciences)  
Medical

So: Knizhnaya Letopis', No. 18, 1956

USSR / Human and Animal Morphology, Normal and Pathological.  
Digestive System.

S

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35933

Author : ~~Lus', E. A.~~  
Inst : Archangel Medical Institute  
Title : Concerning the Topographic Anatomy of the Large Intestine.

Orig Pub : Sb. tr. Arkhang. med. in-t, 1956, vyp. 14, 41-50

Abstract : The topography of the large intestine was studied with the aid of anatomic specimens of 118 cadavers. For the purpose of examining topographic changes in connection with the volume of the intestine, the intestines of 28 cadavers were filled with water, and the topographic interrelations of the skeleton and the organs of the abdominal cavity again were studied. The author also made use of 112 roentgenograms of living people and performed experiments on dogs. With the volumetric increase of the colon, a change takes place in

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LUS, V.Ya.; KUZNETSOV, A.P.

Materials on quantitative estimation of bottom fauna in the Korf-Karaginskiy area (Bering Sea). Trudy Inst.ocean. 46:124-139 '61.  
(MIRA 14:6)  
(Korf Bay—Benthos) (Karaginskiy Gulf—Benthos)

PA 53T60

LUS, YA. YA.

USSR/Medicine - Reproduction  
Medicine - Genetics

Sep 1947

"Some Regularities in the Propagation of *Adalia Bispunctata* L.," Ya. Ya. Lus, Inst Evolutionary Morphol imeni A. N. Severtsov, Acad Sci USSR, 4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 9

Discusses nonmale line of *Adalia* population, a phenomenon first noticed in 1936. Presents further data on phenomenon, obtained through studies. Submitted by Academician I. I. Shmal'gauzen, 6 Mar 1947.

53T60

LUS YA.YA.

TSINOVSKIY, Ya.P.; OZOL, A.M., redaktor; TARANOVA, Ye.A., kandidat sel'skokhozyaystvennykh nauk; OSTROUMOV, N.A., kandidat biologicheskikh nauk; LUS, Ya.Ya., professor; OZOL, E.Ya., kandidat sel'skokhozyaystvennykh nauk; EGLITIS, V.K., kandidat sel'skokhozyaystvennykh nauk; VENGRANOVICH, A., redaktor; SEMIT, I., tekhnicheskij redaktor.

[Insects of Latvia; horntails and sawflies] Nasekomye Latvii SSR; rogozhvosty i polil'shchiki. Riga, Izd-vo Akademii nauk Latvii SSR, 1953. 208 p. (MLRA 7:11)

1. Deyatvitel'nyy chlen Akademii nauk Latvyskoy SSR (for Ozol) (Latvia--Hymenoptera) (Hymenoptera--Latvia) (Sawflies)



IUS, Ya.Ya.; MEDVEDEV, N.N.; PROKOF'YEVA-BELGCVSKAYA, A.A.;  
LYUBIMOVA-LEPINA, V.F.

In memory of Tennis Karlovich Lepin, 1895-1964. Biul. MOIP.  
Otd. biol. 70 no.2:153-155 Mr-Ap '65.

(MIRA 18:5)

DURLAKOWA, Irena; MARESZ-BABCZYSZYN, Jadwiga; PRZONDO-HESEK, Anna;  
LUSAR, Zofia; MROZ-KURPIELA, Ewa

The phenomenon of bacteriocinogeny in bacilli of the genus  
Klebsiella. I. Characteristics of Klebsiella bacteriocins.  
Arch. immun. ther. exp. 12 no.3:308-318 '64.

The phenomenon of bacteriocinogeny in bacilli of the genus  
Klebsiella. II. Bacteriocins produced by strains of Klebsiella  
bacilli isolated from patients with ozena. Ibid.:319-331

1. Department of Bacteriology, Institute of Immunology and  
Experimental Therapy, Polish Academy of Sciences, Wroclaw.

KOSSOWSKI, Stanislaw; DURDAKOWA, Irena; AKOPSONOWICZ, Grzegorz; MARESZ-  
BABCZYK, Jadwiga; KUSTRZYCKA, Helena; PRZEMISLANSKI, Anna; CYRULANSKA, Jadwiga; LUSAR, Zofia

Clinical, bacteriological and serological studies on chronic atrophic fetid nasopharyngitis. Arch. immun. ther. exp. 12 no.4:483-490 '61

Clinical, bacteriological and serological studies on chronic atrophic nonfetid nasopharyngitis and laryngitis. Ibid.: 491-496

1. Department of Bacteriology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław;  
The Laryngological Clinic, School of Medicine, Wrocław,  
and Department of Microbiology, School of Medicine, Wrocław.

KIRAKOSYAN, M.O.; LUSARARYAN, V.S.; DAVTYAN, G.G.; SAKANYAN, A.B.

Discovery of new hosts for *Capillaria hepatica* in Armenia.  
Izv. AN Arm. SSR. Biol. nauki 16 no.6:95-97 Je '63.

(MIRA 17:13)

1. Arnyanskaya protivochumnaya stantsiya.

LUSAWA, Wladyslaw

Tragic result of non-respecting the provisions of industrial safety.  
Wiad elektrotech 28 no.11/12: N-D '61.

1. Starszy inspektor bezpieczeństwa: higieny pracy PRE Elektromontaz.

LUSAWA, Wladyslaw

Fatal consequences of not obeying industrial safety and  
hygiene regulations. Wiad elektrotechn 28 no.11/12:386-389  
N-D '61.

1. Starszy inspektor bezpieczynstwa i higieny pracy, Zjednoczenie  
Przedsiębiorstw Robot Elektrycznych Elektromontaz, Warszawa.

*LUSCAL ST-NICOLAE*

RUMANIA/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10437

Author : Luscal St. Nicolae

Inst : Not Given

Title : New Method for Measuring the Temperature Conductivity and Heat Conductivity of Poor Heat Conductors.

Orig Pub : Bul. stiint. Acad. RPR. Sec. mat. si fiz., 1957, 9, No 1, 215-225

Abstract : A new method is proposed, according to which the measurement of the temperature conduction of a method is made in the stage of non-stationary mode of cooling of a plate, and the measurement of the heat conduction is made during the stage of stationary thermal mode that the plate has reached. The need for a standard material is thus eliminated and the measurement gives the absolute values of the coefficients of temperature conduction and heat conduction, determined by means of a single test under the same experimental conditions. Design formulas have been derived for determining the temp-

Card : 1/2

BUCCAL, N.

RUMANIA

Bucharest, Studii si Cercetari de Metalurgie, No 4, 1962,  
pp 393-403.

"Method of Measuring the Thermal Conductibility and the Thermal-  
Electric Motor Power of Metals, Alloys, and of Semi-conductors  
During Temperature Ranges of from 30 to 460° K."



LUSCAL, N., cercetator, (Bucuresti)

The thermic conductivity of the solid semiconductor. Gaz  
mat fiz 14 no.4:188-200 Ap '62.

LUSCAL, N.

A method of measuring the heat conduction and the thermoelectromotive force of metals, alloys, and semiconductors during the temperature interval of 80°K to 400°K. Studii cerc metalurgie 7 no.4:393-403 '62.

LUSCALOV, Margareta (Constanta)

Physics kaleidoscope. Gaz mat B 14 no.8:468-469 Ag '63.

LUSCEK, J.

J. LUSCEK, L. KURICZA

"Proposal concerning the new regulations for forest registration." p. 59.  
(POLANA, Vol. 9, no. 3, Mar. 1953, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 7, July 1953, Uncl.

L 64956-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD/GG

ACCESSION NR: AT5009474

Z/0000/64/000/000/0266/0268<sup>62</sup>

AUTHORS: Luschykov, V. I.; Neganov, B. S.; Parfenov, L. B.; Taran, J. V.

44, 55

BH

TITLE: The dynamic polarization of protons in a rotating crystal of Lanthanum-magnesium nitrate

21, 44, 55

SOURCE: Conference on Low Temperature Physics and Techniques. 3d. Prague, 1963. Physics and techniques of low temperatures; proceedings of the conference. Prague, Publ. House of the Czechosl. Academy of Sciences, 1964, 266-268

TOPIC TAGS: cryogenics, proton polarization, lanthanum compound, nuclear spin

ABSTRACT: The dynamic polarization method first described by Abragam (Cryogenics 3 (1963), 42) and C. D. Jeffries (Cryogenics 3 (1963), 41) was used in the experiments, which were performed in

Card 1/3

L 64956-65

ACCESSION NR: AT5009474

fields from 2 to 5 kOe at saturation frequencies from 60 to 170 Mc, and for uniform rotation of the crystal in the range of 30 to 550 rpm. The experiments were carried out at  $\sim 1.3K$ . The results showed that the polarization increases when the cerium content decreases from 2 to 0.2%. The temperature dependence of the amplification coefficient of the polarization is similar to that observed for the simple effect-solid. The amplification coefficient increases rapidly as the speed of the crystal rises from 30 to 100 rpm, and then decreases slowly. The polarization amplification coefficient obtained in individual experiments reached 70 for an irradiation time of 30--40 min. Higher values are expected to be obtainable by a more suitable choice of parameters. A disadvantage of the method is the need for precise adjustment of the crystal and the elimination of vibration during rotation in the magnetic field. An advantage of the method is relatively low demand for homogeneity and stability of the magnetic field and the use of meter waves instead of very high frequencies. Orig. art. has: 3 figures.

Card 2/3

L 64956-65

ACCESSION NR: AT5009474

3

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint  
Institute of Nuclear Research) *49.85*

SUBMITTED: 000064

ENCL: 00

SUB CODE: GP

NR REF SOV: 000

OTHER: 004

Card *dm*  
3/3

LUSCON, S.; ARPAL, J.; JANOTKOVA, O.

Room sterilization in the food industry by ultraviolet light. p. 199.

PRUMYSL POTRAVIN. Praha. Vol. 6, no. 4, 1955.

SOURCE: East European Accessions (EEAL), LC, Vol. 5, no. 3, March 1956.



CALUSENKO, V. S.

The lipocae of the pancreas and fat carbohydrate metabolism. I. The effect of the lipocae of the pancreas on ketonemia, lipemia and glycemia in rabbits. S. M. Lettes, R. R. Sigalova and B. M. Chirikov. *Bull. Biol. Med. Exptl. U. R. S. S. S.* 8, 338-41 (1939) (in English). The following exts. of the pancreas were prepd.: I, an aq. soln. of a fat-free 60% EtOH ext. of the pancreas, II, an aq. ext. of the pancreas, freed of fat with 95% EtOH and Et<sub>2</sub>O, and III, an aq. soln. of a 40% EtOH ext. of the pancreas, freed of fat with 95% EtOH and Et<sub>2</sub>O. Subcutaneous injections of the above prepus., either in native form or in the form of ultrafiltrates through filters prepd. from 8% collodion in AcOH, caused a marked hyperketonemia and a definite hypolipemic effect in rabbits without having any influence on glycermia. Oral ingestion of

the exts. causes no change in ketonemia or lipemia. The hyperketonemic effect in rabbits is produced by doses of I, II and III equiv. to 5, 1 and 0.1 g., resp., of the crude gland. The effect of the prepus. does not increase in proportion to the increase in dosage and large doses of III give no hyperketonemic effect. The initial content of ketone bodies, however, detrs. to some extent the magnitude of the effect (Lettes, C. A. 34, 5189). The effect is not due to the presence of choline, since injection of the latter in the concns. 10 times greater than that of the choline in the prepus. used produces no effect upon ketonemia or lipemia. The active substance of lipocae is extd. from the pancreas by acids and alkalies, is sol. in H<sub>2</sub>O and 60% EtOH, is most readily extractable by 40% EtOH, is insol. in 95% EtOH and Et<sub>2</sub>O and is ultrafilterable. It is not related to proteins, polypeptides or lipoids and is not destroyed by boiling in H<sub>2</sub>O for 5-10 min. II. The effect of the lipocae of the pancreas on the fat and glycogen of the rat liver. S. M. Lettes and V. S. Lusenko. *Ibid.* 34:2 5 (in English).—The subcutaneous injection of I into rats produces after 2 hrs. a 57% decrease in glycogen (IV) and a 19% increase in the fat content of the liver. The major portion of I is not ultrafilterable. The injection of II, which is ultrafilterable, produces a 61-67% decrease in IV and a 1.7-2.7% decrease in fat in the liver when doses equiv. to 1 g. of crude gland are used and a 57% decrease and 9% increase in IV and fat, resp., when doses equiv. to 0.1 g. are used. The sugar content of the blood does not change. Since I and II do not produce hyperglycemia, the decrease in IV is not a result of glycogenolysis but is a re-

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

880H1 80H41V

sult of the inhibition of IV formation. The failure of the fat value to increase significantly is due to the presence of the lipocenic factor which inhibits fat infiltration of the liver. Oral ingestion of I and II causes no decrease in IV. The subcutaneous injection of III produces no change in IV or in the fat in rat liver; this indicates that the method of prepn. of III eliminated all of the H<sub>2</sub>O-sol. and 95% EtOH-sol. glycogenotropic substances from the ext. I, II and III show no marked hyperketonemic effect in rats such as is observed in rabbits and confirms the previous finding that rats are not suitable test animals for studies of ketogenic substances. The factors are called glycogenotropic substance A (found in I), sol. in H<sub>2</sub>O and EtOH and not ultrafilterable, and glycogenotropic substance B (found in II), sol. in H<sub>2</sub>O and insol. in 95% and dil. EtOH and which is ultrafilterable. These substances are not destroyed by boiling for 5 min. with 0.01 N Na<sub>2</sub>CO<sub>3</sub>.

S. A. Karjala

LUSENKO, V.S.  
LUSENKO, V.S.

Some data on the mode of action of spleen extract in a case of  
viable tumor in rabbits. Medych.zhur. 20 no.2:77-88 '50.  
(MIRA 11:1)

1. Z viddilu eksperimental'noi endokrinologii (zav. viddilu -  
chl-kor. AN URSR V.P.Komisarenko) Institutu eksperimental'noi  
biologii i patologii im. akad. O.O.Bogomol'tsaya Ministerstva  
okhoroni zdorov'ya URSR (direktor - prof. O.O.Bogomolets')  
(CANCER) (SPLEEN)

*LUSENKO, V.S.*

CHORNOGOROVA, Z.L.; LUSENKO, V.S.

Comparative effect of corticotonin, adrenaline and cortin on trophic processes in the cardiac muscle. Medych.zhur. 22 no.3:39-45 '52.  
(MIRA 11:2)

1. Institut eksperimental'noi biologii i patologii im. akad. O.O. Bogomol'tsya Ministerstva okhoroni zdorov'ya URSS.  
(ADRENAL GLANDS--SECRETIONS) (HEART)  
(CARBOHYDRATE METABOLISM)

LUSENKO, V. S.

"The Characteristic Effect of a Spleen Extract on Rabbits With  
a Transinjected Tumor." Cand Biol Sci, Inst Physiology, Acad Sci  
Ukrainian SSR, Kiev, 1954. (RZhBiol, No 5, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

LUSENKO, V. S.

Dissertation: "Characteristics of the Action of Spleen Extract on Rabbits With an Intertwisted Tumor." Cand Med Sci, Kiev Order of Labor Red Banner Medical Inst imeni Academician A. A. Bogomolets, 28 Jun 54. (Pravda Ukrainy, Kiev, 19 Jun 54)

SO: SUM 318, 23 Dec. 1954

KOMISSARENKO, V.P.; LUSENKO, V.S.; MAYEVSKAYA, I.P.

Oxygen, sugar and lactic acid content of blood entering and leaving the brain in disorders of cerebral circulation. Vop. fiziol. no.7: 125-132 '54. (MLRA 8:1)

1. Institut fiziologii AN USSR.

(BRAIN, blood supply,

eff. of ligation on oxygen, sugar & lactic acid in blood entering & leaving brain)

(HEMATOENCEPHALIC BARRIER,

eff. of ligation of carotid artery on oxygen, sugar & lactic acid in blood entering & leaving brain)

(BLOOD SUGAR,

eff. of ligation of carotid artery on sugar in blood entering & leaving brain)

(OXYGEN, in blood,

eff. of ligation of carotid artery on oxygen in blood entering & leaving brain)

(LACTIC ACID, in blood,

eff. of ligation of carotid artery on lactic acid in blood entering & leaving brain)

(BLOOD,

lactic acid, oxygen & sugar, eff. of ligation of carotid artery on composition of blood entering & leaving brain)

LUSENKO, V.S.

Effect of spleen extract on the formation of urea, Vop. fiziol.  
no.10:152-158 '54 (MLRA 10:5)

1. Institut fiziologii im. A.A. Bogomol'tsa Akademii nauk USSR,  
Laboratoriya endokrinnykh funktsiy.  
(UREA) (SPLEEN--SECRETIONS)



LUSENKO, V.S.

~~Academician V.P. Komissarenko~~, member of the Academy of Sciences  
of the Ukrainian S.S.R.; on his 50th birthday. *Fiziol. zhur.*  
[Ukr.] 3 no.2:136-138 Mr-Apr '57. (MLRA 10:6)  
(KOMISSARENKO, VASILII PAVLOVICH, 1907- )

USSR/Human and Animal Physiology (Normal and Pathological).  
Effect of Physical Factors. Ionizing Emissions.

T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 80148.

Author : Lusenko, V.S.

Inst :

Title : Influence of X-Rays on the Content of Ammonia,  
Glutamine, ATP and Glycogen in the Tissue of the  
Brain of a Rabbit.

Orig Pub: Fiziol. zh., 1957, 3, No 3, 112-116.

Abstract: Rabbits were subjected to a general single exposure  
of 600 and 900 r. After the exposure, they were  
decapitated; the brain was taken out and immersed in  
liquid air. Through 10-20 minutes after exposure,  
the content of ammonia in the tissue of the brain

Card : 1/2

LUSENKO, V.S.

Effect of splenin on the relation between the activity of the connective tissue and nitrogen metabolism in rabbits with Brown-Pearce tumors. Fiziol. zhur. [Ukr.] 7 no.4:545-552 J1-Ag '61.

(MIRA 14:7)

1. Laboratory of Endocrinous Functions of the A.A. Bogomoletz Institute of Physiology of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

(SPLENIN)

(CONNECTIVE TISSUES)

(CANCER)

LUSGARTEN, R

TECHNOLOGY

PERIODICAL: REVISTA TRANSPORTURILOR, Vol. 5, no. 11, Nov. 1958

LUSGARTEN, R. A section of spare parts in the Giurgiu Navy Yard is being organized. p. 523

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4  
April 1959, Unclass

LUSHAGIN, N.

5612

Bel'she dobrotaykh tkaney trudyashchimsya. (Odes. Sukonnaya fabrika im. Stalina).  
Odessa, 1<sup>o</sup> izd., 1954. 32 s. s ill. 20sm. 3.000 kuz. 45k. (55-837) P  
677.62

SO: Knizhnaya Letepis', Vol. 1, 1955

LUSHCHAN, Yu.K.

YUEHIMENKO, I.I.; LUSHCHAN, Yu.K.

Assembly line production of model footwear. Leg. proc. 17 no.5:  
40-43 № '57. (MLRA 10:6)  
(Shoe machinery) (Assembly line methods)

*Lushchekin, A.*  
AUTHOR: Lushchekin A. and Khaskelis, Ye., Moscow 107-9-27/53

TITLE: The "KBH-49" TV-Receiver Adapted to the "35JK2B" Kinescope  
(Televizor "KBH-49" na kinescope "35JK2B")

PERIODICAL: Radio, 1957, # 9, p 40 (USSR)

ABSTRACT: A very simple method is suggested for adapting the TV-receiver to the "35JK2B" kinescope. The operation of the kinescope is adequate with a voltage of 4-5 kilovolts applied to the second anode. The cathode current of the kinescope has, in this case, 100-150 micro-amperes, the clearness is sufficient, and does not exceed the standard value for this kinescope type. The voltage of 300-320 volts taken from the filter-choke of the TV-rectifier is sufficient for feeding the accelerating electrode. The heating, cathode and modulator circuits of the kinescope are not modified. For better picture focusing, it is suitable to keep the magnetic focusing, existing in the "KBH-49" TV-receiver together with the electrostatic focusing, for which the "35JK2B" kinescope is designed. In this way, the picture focusing is extended to the whole screen surface. The damping device can remain unmodified, but much better results are obtained, if this damping device is changed according to the diagrams shown in the "Radio", # 7, 1956. Some details are given

Card 1/2

107-9-27/53

The "KBH-49" TV-Receiver Adapted to the "35JK2B" Kinescope

about the mounting of the kinescope. It is advisable to replace the loudspeaker of the TV-receiver by an elliptic one or to remove it to the lateral wall of the cabinet. In order to improve the picture quality, it is recommended to replace the "5Ц3С" kenotron by two "5Ц4С" kenotrons, connected in parallel. The "5Ц3С" kenotron can also be replaced by germanium rectifiers "ДГ-Ц26" or "ДГ-Ц27", which are to be connected together with shunting resistors of 80-100 kilo-ohms each, three diodes connected in series in each arm.

The article contains 1 Russian reference.

AVAILABLE: Library of Congress

Card 2/2



LUSHCHENKOV, N.D.

Stand for regulating the temperature relay. Khol.tekh.  
39 no.6:54 N-D '62. (MIRA 15:12)  
(Temperature regulators)

1ST AND 2ND ORDERS  
3RD AND 4TH ORDERS  
PROCESSES AND PROPERTIES INDEX

75

ca

Dye-stuff-yielding plants in the Ukrainian S. S. R. 7  
 G. Lushchevs'kaya. Mem. Inst. Chem. Tech. Acad.  
 Sci. Ukrain. S. S. R. No. 3, 13-19 (in Russian 10, in  
 English 20) (1937).—The following 13 plants were in-  
 vestigated to det. their dyeing properties: *Geranium*  
*sanguineum*, *Aspogonium podagraria* L., *Acroptilonoides*  
 L., *Alnus glutinosa*, *Agrimonia eupatoria* L., *Genista*  
*tinctoria*, *Barbarea vulgaris*, *Delphinium consolida* L.,  
*Juglans regia* L., *Centaurea cyanus* L., *Chedilodium*  
*majus* L., *Colastrus scandens* and *Iris pseudocorus*. The  
 first 3 did not give satisfactory results. The last 10 yielded  
 dyes of widely used colors with brown and yellow pre-  
 dominating. The degree of color intensity decreases in the  
 order listed. The dyes were tested against the sun,  
 water, 12.5% HCl, 7% soda, soap, 0.5% HOAc and  
 most of them proved stable. B. Z. Kamich

COMMON ELEMENTS  
OPEN  
MATERIALS INDEX  
COMMON VARIETIES INDEX

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SHOW/IV  
SHEET ONE ONE 151

GROUPS  
1ST ORDERS  
2ND ORDERS  
3RD ORDERS  
4TH ORDERS

LUSHCHEVSKAYA, G. M.

Lushchevskaya, G. M. and Savinov, B. G. "On the optimal conditions in the use of green plants for the separation of carotin", (In index second author is B. G. Savinov), Ukr. khim. zhurnal, 1948, Issue 1, . 89-95, - Bibliog: 17 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

LUSHCHEVSKAYA, G. M.

Chemical Abst.  
Vol. 48 NO. 6  
Mar. 25, 1954  
Biological Chemistry

*Method of determining vitamin E in green parts of plants*  
D. G. Savinov and G. M. Lushchevskaya. *Ukrain. Khim. Zhur.* 16, 870-82 (1950).—Crush 2-3 g. fresh green plant material and ext. with 15-25 ml. EtOH and then with 15-25 ml. benzene. Add 1.5-2.5 ml. 50% aq. KOH and shake 20 min. to allow sapon. Add H<sub>2</sub>O, discard the aq. layer and filter the benzene layer through anhyd. Na<sub>2</sub>SO<sub>4</sub>. Det. the content of carotenoids from the yellow color in the benzene layer. Evap. the benzene by gentle heating and dissolve the residue by refluxing with 5 ml. abs. EtOH. Add 1 ml. HNO<sub>3</sub> and develop the rose color by refluxing exactly 3 min. Det. the extinction coeff. at 465 m $\mu$  and read the concn. of  $\alpha$ -tocopherol from a standard curve. The correction for the content of carotenoids amts. to 2-4 times the content of  $\alpha$ -tocopherol. Vitamin E contents in p.p.m. of dry wt. in green parts were: *Trifolium* sp., 277; *Artemisia* sp., 275; *Castanea sativa*, 254; *Acer* sp., 246; *Polygonum aviculare*, 267; *Echinochloa crus-galii*, 219; *Poa* sp., 217; *Berberis vulgaris*, 213; *Potentilla anserina*, 198; and *Malva* sp., 183.  
Ronald G. Menzel...

*Downloaded*

*RK*

CA

Some simplified methods for determining carotene in green plants. B. G. Bavinov and G. M. Lushechinskaya. *Doklady Akad. Nauk S.S.S.R.* 76, 103-4(1951). The method proposed by Sapozhnikov (*C.A.* 43, 711c), if used without chromatographic adsorption, is inaccurate. A modified Popandulo method (*Vitamin Compn. of Feeds*, 1949) is satisfactory if used as follows: 1 g. sample is ground with quartz sand, with addn. of 5-10 g. dry  $\text{Na}_2\text{SO}_4$ , mixed with chromatographic adsorbent (5 g. of  $\text{MgO}$ ), re-ground, placed in a column with petr. ether, by using petr. ether for quant. transfer to the column, and washing with pure petr. ether. Use of  $\text{CaH}_2$  speeds the operation. If the chromatographic treatment and a 10-15 min. grinding are used in the Sapozhnikov method, the results are made substantially accurate. Several common plants were successfully analyzed by both procedures. G. M. K.

LUSHCHEVSKAYA, G. M.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Biological Chemistry

(4)  
Determination of summary tocopherols (Vitamin E) in plant products. B. G. Savinov and G. M. Lushchevskaya. *Ukrain. Khim. Zhur.* 18, 549-6 (1952) in *Russk. Khim. Zhur.* 48, 3434b. —To det. the total content of tocopherols in plant material it is recommended that the method based on color reaction of 2,2'-dipyridyl with FeCl<sub>2</sub> be used; the tocopherols reduce FeCl<sub>2</sub> and color is obtained of the dipyridyl complex which can be used colorimetrically. However, for dependable results interfering plant substances should be removed. For this purpose the ext. is passed over a diatomaceous earth chromatographic column with CCl<sub>4</sub> as the solvent. The filtrate, which should be colorless, is then used for the reaction with FeCl<sub>2</sub> and dipyridyl after evapn. *in vacuo* in inert atm. The nitrate method of Purter and Meyer (*C.A.* 33, 4612<sup>g</sup>) often gives results that are too high. The present method was tested on numerous exts. with consistent results. The nitrate method is improved somewhat by the chromatographic pretreatment.  
G. M. Kosolapoff

LUSHCHEVSKAYA, G.M., SAVINOV, B.G.

Methods for a quantitative determination of carotene and vitamin  
E in plants. Vitaminy no.1:30-37 '53 (MIRA 11:6)

1. Institut organicheskoy khimii AN USSR, Kiyev.  
(CAROTENE)  
(TOCOPHEROL)  
(PLANTS--CHEMICAL ANALYSIS)

ЛИС НОЧЕДСКАЯ, Г. И.

3. Carotens in green parts of some wild plants of the Ukrainian S.S.R. G. M. Lushchinskaya and E. G. Savitsky. *Vysniy, Akad. Nauk Ukr. SSR, Ser. Khim. (1953); Referat Zhur., Khim.* 1954, No. 12950.—The carotene content was studied in 210 specimens of wild growing grasses, bushes, and trees. Ninety of the studied specimens contained over 12 mg. % of carotene (12.1-30.0 mg % fresh wt.). Max. accumulation of carotene in leaves occurs from the beginning of July to the middle of August. The ratio of carotene and carotenoids studied in 11 specimens varied within wide limits. In 4 specimens were found more carotenoids (19.8-40.8 mg. % fresh wt.) than carotene (14.1-16.9 mg. %). In the remaining specimens carotene was somewhat higher, 15.2-24.4 mg. % than carotenoids, 12.0-22.9 mg. %. The ratio of the various fractions of carotenoids was studied chromatographically. The total quantity of carotenoids did not change during July-August, it attained a max. in October, and then started a sharp drop. The decompn. products of the carotenoids are primarily localized in the first zone of the chromatogram while the second zone does not change. It is quite possible that in the second zone are oxidation products of carotene. The pigments in the first zone are most likely independent, natural substances accompanying carotene. The basic pigment of the first zone was obtained in cryst. form and was identified as violaxanthin. The contents of carotene in green leaves of several plants dropped sharply upon storage of leaves for 10 days or when they were dried for 3 hrs. at 100°.

M. Hosh



LUSHCHEVSKAYA, G.M.

*Determination of vitamin E (total natural tocopherols) in vegetable oils. B. G. Savinov, G. M. Lushchevskaya and L. A. Musiko (Ukr. Khim. Zh., 1954, 20, 573-577).—A variation of the Fe-dipyridyl method involves saponification of the oil in presence of pyrogallol, followed by filtration through diatomite. The method gives lower values than those obtained by the HNO<sub>3</sub> method, which is interfered with by the presence of tocopherol-quinones.*

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*Inst. Org. Chem., Acad. Sci. Ukr. SSR*

LJSHCHEVSKAYA, G.M.; SAVINOV, B.G.

Titrimetric determination of tecopherols. Ukr.khim. zhur. 22 no.2:  
236-238 '56. (MLBA 9:8)

1. Institut organicheskoy khimii AN USSR.  
(Titration) (Tocopherol)

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VYVAL'KO, I.G.; DUSHECHKIN, A.I. [deceased]; LUSHCHEVSKAYA, G.M.; MATKOVSKIY, K.I.; SAVINOV, B.G.; SHILOV, Ye.A.; YASNIKOV, A.A.

Mechanism of the biosynthesis of isoprene compounds. Part 2. Formation of carotene pigments in the leaves of kok-saghyz. Ukr. khim. zhur. 22 no.5:655-659 '56. (MLRA 10:6)

1. Institut organicheskoy khimii Akademii nauk USSR i Institut fiziologii rasteniy i agrokhimii Akademii nauk USSR.  
(Carotene) (Kok-saghyz) (Biosynthesis)

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MATKOVSKIY, K.I.; SAVINOV, B.G.; SHILOV, Ye.A.; YASNIKOV, A.A.

Mechanism of the biosynthesis of isoprene compounds. Part 3:  
New data on rubber and carotene antecedents in kok-saghyz.  
Ukr.khim.zhur. 23 no.4:516-522 '57. (MIRA 10:10)

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Ukrainskoy akademii sel'skokhozaystvennykh nauk.  
(Biochemistry) (Kok-saghyz)