

NEBRASOV, M. A.

The Pharmacological Characteristics of Carbocholine. Far. 1. Toks., v. 4,  
No 2, 1941, p. 72.

Chair of Pharmacology and Toxicology of the Leningrad Veterinary Institute.



USSR/Electricity  
Transmission Lines  
Electric Power Systems

Jun 49

"Exploitation of 115-Kilovolt Lines Equipped With Separate Phase Control and OAPV (Separate Automatic Repeated Switching)," I. Ye. Lebrat, V. I. Yashchikov, Engineers, 3 pp

"Elek Stants" No 6

Sum up the work of a power system using a number of 115-kv transmission lines equipped with separate phase control and OAPV 80 - 100 km long. In 5 years of exploitation, there were about 30 cases of automatic switching out of

53/49732

USSR/Electricity (Contd)

Jun 49

separate phases during frosts, breaks in conductors, damage to supports, etc. In all cases except three, power supply to consumers was maintained on two phases.

53/49732

PA 53/49732

RECAP, L. 18.

NEBRAT, L. YE.

USSR/Engineering - Power Plants, Electric Electrical Equipment

Nov 49

"Some Design Requirements for Siberian Rayon Electric Power Stations,"  
L. Ye. Nebrat, V. N. Yasnikov, Engineers, Stalin Prize Laureates, 3 pp

"Elek Stants" No 11

Siberian electric power stations are designed as a rule, on same principles as those in other parts of USSR. Practice shows, however, that special attention must be paid to severe climatic conditions. Lists 19 points in connection with fuel supply, water supply, powerhouse, electrical equipment, and oil supply.

PA 156T24



NEBRAT, L. Ye.

Electric Transformers

Inspection of big transformers without removing the core. Rab. energ. 2 no. 4 '52

9. Monthly List of Russian Accessions, Library of Congress, July 195<sup>2</sup>, Uncl.

HEBERT, I. J., 1957.

Electric Transformers - Testing

Answer to Eng. Kopelev's remarks on I. F. Nebret's article "Inspecting powerful transformers without removing the core." *Elect. Engng.* 1957, 1957.

9. Monthly List of Russian Accessions. Library of Congress, December 1957, Encl.

KAPLAN, S.Yu.; NEBRAT, L.Ye. [authors]; SINITSA, A.I., inshenor [reviewer].

Remarks on S.IU.Kaplan's article "Inspecting transformers without removing the core," and L.E.Nebrata's article "Inspecting transformers of great capacity without removing the core." Energetik 3 no.5:4-5 0 '53. (MIRA 6:10)  
(Electric transformers) (Kaplan, S. IU.) (Nebrat, L.E.)



NEBRAT, L. Ye.

AID P - 2067

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 9/29

Authors : Nebrat, L. Ye., and Shefkind, M. D., Engs.

Title : Raising the power factor of the auxiliary installations of power stations

Periodical: Elek. sta., 4, 33-34, Ap 1955

Abstract : The authors discuss the necessity of improving the power factor of auxiliary circuits which usually varies between 0.72 and 0.75. The authors mention that the power factor in the industrial networks sometimes reaches a value of 0.882. The economic and technical factors are also discussed.

Institution: None

Submitted : No date

ACC NR: AP6009074

SOURCE CODE: UR/0105/65/000/004/004/0019

AUTHOR: Dmokhovskaya, L. F. (Candidate of technical sciences); Dzhunkovskiy, O. N. (Engineer); Lyakov, Yu. I. (Engineer); Nebrat, L. Ye. (Engineer); Spuv, G. S. (Engineer); Shur, Yu. B. (Engineer); Yakov, I. A. (Engineer)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00

ORG: none

3

TITLE: Development and introduction of spark connection and forcing of reactors in long distance electrical transmission 4

SOURCE: Elektrichestvo, no. 4, 1965, 14-19

TOPIC TAGS: electric power transmission, electric distribution equipment, high voltage line

ABSTRACT: The introduction of high voltage, high power electric power transmission was greatly aided by the switch from limiting power to suit the capacity of insulation and transmission structures under all possible conditions to the limitation of loads to suit the capacities under normal conditions and the installation of reactors and circuit breakers to prevent sudden overloads. One remaining problem was the slow action of mechanical switching devices. This has been defeated by the installation of spark gaps. The reactors are constantly connected to the line through spark gaps, across which a spark arcs almost instantaneously in case of overload. A 500 kv transmission line was

Card 1/2

UDC: 621.311.1

2

L 16459-66  
ACC NR: AP6009074

set up between the Bratsk power station and Irkutsk and tests and analysis of the operation of the equipment described were run. It was discovered that overloads occurred mostly in the second or third half-cycle of operation. It was also discovered that it is profitable to install spark-operated reactors at substations, even at terminal stations in many cases. Diagrams and photographs of the equipment, as well as a table showing the results of investigations on a model of internal overloads and the influence on them of various means of connection of the 500 kv reactors, are presented. Analysis showed that the devices worked reliably and safely, and that the internal resistance of the spark in the gap could be ignored. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 001

Card 2/2 mc

NEBRATENKO, L.G., vrach

Is stuttering curable? Zdorov'e 7 no.12:12-13 D '61. (MIRA 14:12)  
(STAMMERING)

NEBRATENKO, L.G.

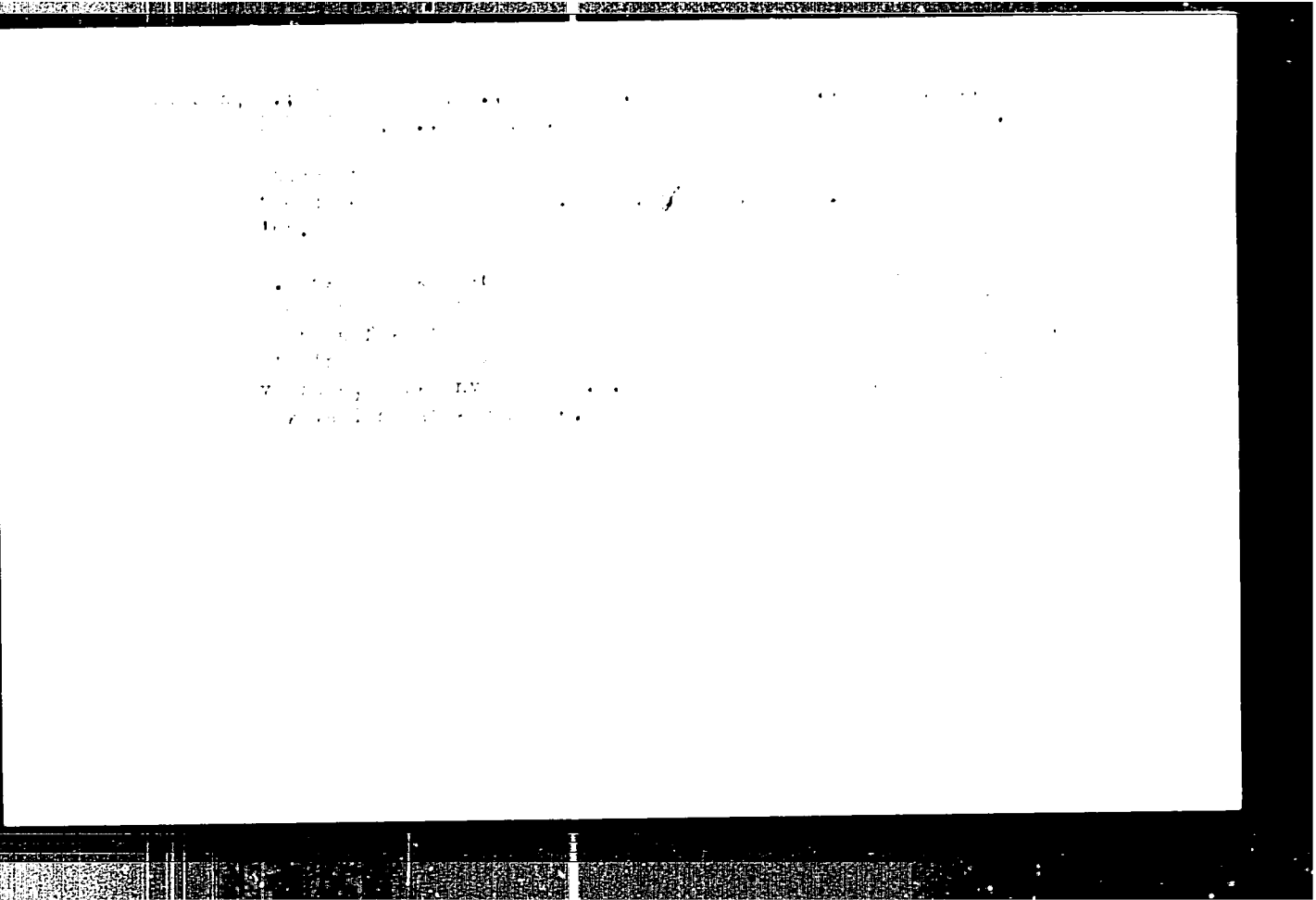
Influence of rheumatic fever and chronic tonsillitis on the nervous system of children as revealed by a psychoneurological clinic. *Pediatrics* no.8:32-36 '61. (MIRA 14:9)

1. Iz Tsentral'noy polikliniki Ministerstva putey soobshcheniya.  
(RHEUMATIC FEVER) (TONSILLITIS) (NERVOUS SYSTEM)

LOKAJICEK, M.; JAKOUBKOVA, J.; STASEK, V.; technicka spoluprace:  
NEBEJESKA, A.

Gonadal dosage in the treatment of non-tumorous diseases with  
x-irradiation (Dosimetric study). Cesk. rentgonol. 16 no.1:  
30-35 F '62.

1. Vyzkumny zavod Tesla-Premysleni Radiologicka klinika a onkologicka  
laborator FVL KU.  
(GONADS radiation effects) (RADIOTHERAPY)





SECRET

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15  
Coloring of glass by nickel J.H. Nebtenski, Milota Panderik, and J.H. Kozik (Glass Research Inst. Hradec Králové)

The coloring of glass by nickel is a well-known process. It is based on the formation of nickel ions in the glass matrix. The color of the glass depends on the concentration of nickel ions and on the type of glass. The coloring of glass by nickel is a well-known process. It is based on the formation of nickel ions in the glass matrix. The color of the glass depends on the concentration of nickel ions and on the type of glass. The coloring of glass by nickel is a well-known process. It is based on the formation of nickel ions in the glass matrix. The color of the glass depends on the concentration of nickel ions and on the type of glass.

fn 11

*Nebrensky, Jiri*

Czechoslovakia / Chemical Technology. Chemical Products I-12  
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31509

Author : Kocik Jiri, Nebrensky Jiri

Title : Current-Conducting Glass

Orig Pub: Sklar a keramik, 1956, 6, No 11, 273-278

Abstract: A review of the technology of production of electric current conducting glass (EG) and of the patents relating thereto. EG is manufactured by two concerns in the United States and by one in Belgium. Production of EG is based on 3 methods: a) reduction of the surface film (having a thickness of 50-100 Å) of heavy lead

Card 1/4

Czechoslovakia /Chemical Technology. Chemical Products I-12  
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31509

glasses, containing more than 60% PbO, by means of H at 250-550 ; b) deposition of a film of metal salts on the surface of the glass, followed by their reduction to the metal; c) deposition upon the glass of a conducting film of oxides or other metal compounds. The 1-st method yield an opaque glass of low conductivity (resistance of 1 m<sup>2</sup> is of about 10<sup>7</sup> ohms); 2-nd method is very complex and yields a glass of low transparency but high conductivity (25-150 ohms/m<sup>2</sup>). The most practical is the 3-rd method which is used in the United States. The conducting surface layer consists

Card 2/4

Czechoslovakia /Chemical Technology. Chemical Products I-12  
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31509

mostly of  $\text{SnO}_2$ , which is formed from  $\text{SnCl}_4$  by treatment with  $\text{H}_2\text{O}$ , and has characteristics that are typical of semi-conductors. EG produced by this method is practically transparent, can be made of any resistance (from 20 to several thousand ohms/m<sup>2</sup>). The principal fields of utilization of EG are: electric heating of rooms by means of windows, walls and ceilings made of EG, kitchen utensils, windshields of aircraft, cars and railroad engines, and high-frequency engineering, where EG can be utilized to dissipate electric charges that build-up on cathode-tube shields and bulbs.

Card 2/4

Czechoslovakia /Chemical Technology. Chemical Products I-12  
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31509

A drawback of EG is the high consumption of electric power, for which reason the authors do not consider it necessary, as yet, to undertake extensive manufacture of EG in Czechoslovakia.

Card 4/4

[The text in this block is extremely faint and illegible due to the quality of the scan. It appears to be a header or introductory paragraph.]

NEBRIKH, N.S.

Operation of centralized traffic control devices in an  
a.c. railroad district. Avtom., telem. i svyaz' 7 no.10:  
37-39 0 '63. (MIRA 16:11)

1. Nachal'nik Znamenskoy distantzii signalizatsii i svyazi  
Odessko-Kishinevskoy dorogi.

KOPEYKOVSKIY, V.M., kand.tekhn.nauk; NEBRYEVA, L.G., inzh.

Hygroscopic characteristics of the fruit and seeds of castor oil  
plants. Masl.-zhir.prom. 30 no.2:7-9 F '64. (MIRA 17:9)

1. Krasnodarskiy politekhnicheskiy institut.



EXCERPTA MEDICA Sec 8 Vol 12/7 Neurology July 59

3131. A CASE OF FAMILIAL INCIDENCE OF NARCOLEPSY - Případ rodinného výskytu narkolepsie - Nebel (ma) O. and Roth B. Neurol. Klin. KU, Praha - ČSL. NEUROL. 1958, 21/1 (54-58)

Description of a family in which 8 members were affected by narcolepsy within 3 generations. The authors examined 4 of those affected. All of them suffered from narcoleptic attacks and had signs of sleep dissociation (sleep paralysis, hypnagogic hallucinations, automatic behaviour). 2 showed cataplexy, while the 3rd had attacks of narcolepsy caused by emotion. In 2 cases signs of sleep drunkenness were found. One patient showed bilateral chronic progressive nuclear lesions of the oculomotor nerve and in addition bilateral lesions of the acoustic nerve. The relation of essential narcolepsy to independent sleep drunkenness as well as the existence of transitory forms between both diseases is stressed. The possible association of narcolepsy with bilateral lesions of n. II, n. III, and n. VIII is pointed out. These lesions have been described only in familial forms of narcolepsy. (VIII. 1)

112 MAINTENANT WARTYTAI FARI.V. INFANTTI E. WOTI WOCV DE COLLE

MICHAL, F. V.; NEBUDOVA, J.

On the problem of uveomeningitis. Cesk. ofth. 17 no. 4/5:299-301 J1 '61.

1. Oční oddelení nemocnice na Bulovce, klinická základna Ústavu pro  
doskolování lékařů, přednosta doc. dr. F. V. Michal Neurologická  
klinika hygienické a epidemiologické fakulty, Praha 10-Vinohrady,  
přednosta doc. dr. Z. Macek.

(UVEA diseases) (MENINGITIS case reports)

BLEHOVA, B.; HEYROVSKY, A.; NEBUDOVA, J.; VOTAVA, Z.

Treatment of Wilson's disease with penicillamine and guajacuran. Cesk.  
neurolog. 17 no. 4/5:299-301 J1 '61.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001130

1. Dětská klinika hygienické fakulty KU v Praze Kardiologická laborator  
KU v Praze Neurologická klinika fakulty všeobecného lékařství KU v Praze,  
Farmakologický ústav hygienické fakulty KU v Praze.

(HEPATOLENTICULAR DEGENERATION) (GUAIACOL GLYCERYL ETHER)  
(CHELATING AGENTS)

1977

Recurrent encephalitis with predominant mental symptomatology.  
Cesk. neurol. 28 no.1: 74-77 Ja '65

1. Neurologická klinika Léčebně diagnostického ústavu Karlovy  
Univerzity v Praze (prezentoval: dr. J. Macháček).

L 13596-66

ACC NR: AP6006743

SOURCE CODE: CZ/0082/65/000/004/0302/0304

AUTHOR: Nebudova, J.

ORG: Neurological Clinic, Medical Faculty of Hygiene, Charles University, Prague  
(Neurologická klinika lékařské fakulty hygienické KU)

TITLE: An unusual course of epidural hemorrhage

SOURCE: Československá neurologie, no. 4, 1965, 302-304

TOPIC TAGS: injury, brain, blood circulation

ABSTRACT: A case of a large epidural hematoma with a latency of 32 days is described. The patient was a 10 year old girl who was run over by an automobile. Reasons for the unusual course are discussed. The patient was treated surgically and cured. [JPRS]

SUB CODE: 06 / SUBM DATE: 29Jan64

Card 1/1

NEBUKIN, I., mayor meditsinskoy sluzhby

Simulator devices. Voen. znan. 39 no.11:25-26 k 163.  
(MIRA 17:2)

BRINKIN, I., member of the Air Force Academy

Instrumental in the development of the F-15 fighter jet.

NEBUKIN, I.A., mayor med.sluzhby

Training medical corpsmen with the aid of dummy equipment. Voen.-  
med. zhur. no. 2:19-20 F '61. (MIRA 14:2)

(MEDICINE, MILITARY--STUDY AND TEACHING)  
(FIRST AID IN ILLNESS AND INJURY)

NEBUKIN, I.A., mayor med.sluzhby

Medical practice of the military physician at an urban first  
aid station. Von.med.zhur. no.10:81-82 0 '61. (MIRA 15:5)  
(MEDICINE, MILITARY)  
(FIRST AID IN ILLNESS AND INJURY)



PISKUNOVA, V.G., nauchnyy sotrudnik; ANATOVSKAYA, V.S., nauchnyy sotrudnik;  
KOROTKOVA, G.D., nauchnyy sotrudnik; ~~NEBUBENKO, A.P.~~, nauchnyy  
sotrudnik; DANILOV, V.I., nauchnyy sotrudnik; SEMAN, M.I., nauchnyy  
sotrudnik; YERMINA, Z.I., nauchnyy sotrudnik

Industrial hygiene in the production and use of benzanthron. Gig.  
i san., 21 no.7:22-26 J1 '56. (MIRA 9:9)

1. Iz Ukrainского tsentral'nogo instituta gigiyeny truda i  
professional'nykh zabolevaniy

(ANTHRACENE, rel. cpds.

benzanthracene-7-one, inj. eff. in indust.)

(INDUSTRIAL HYGIENE

benzanthracene-7-one pois.)

REBYKOV, P., BARINOV, V., (Rostovskaya oblast')

When a building committee stands aside. Sov. profsoiuzy 6 no.15:  
31-33 N '58. (MIRA 11:12)

1. Brigadiry stroitel'stva Volgodonskogo kombinata sinteticheskikh  
shirozameniteley.  
(Volgodonsk--Construction industry)

N. BYKOV, P. A.

"On the Action of the Cortex of the Hemispheres and the  
Diencephalon upon the Cardiovascular System in Cats and Rabbits."  
Saratov State U ineni N. S. Cherny hevskiy, Kuybyshov, 1955.  
(Dissertation for the Degree of Candidate in Biological Sciences)

SO: M-955, 16 Feb 56

TANANAYO, M.M.; NEFYLITSKAYA, S.L.

Extracti n photometric determination of titanium in the form of  
a diantipyrylmethane-rhodanide complex. Zav.lab. 28 no.3:263-  
265 '62. (MIRA 1':4)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko.  
(Titanium--Analysis) (Complex compounds)

1. NEBYLITSKIY B.

2. USSR (600)

4. Tsimlyansk Reservoir-Meteorological Observatories

7. Island in the Tsimlyansk Sea., Vokrug sveta no.1, 1953.

9. Monthly List of Russian Accessions. Library of Congress, April \_\_\_\_\_, 1953.

NEBYLITSKIY, B., reshisser-operator, laureat Stalinskoy premii.

"Awakening of the steppe." Kinosekhanik no.2:47-48 F'55.  
(Motion-pictures, Documentary) (MLBA 8:3)

NEBYLITSKIY, Boris, kinooperator.

Amateur cinematographer, prepare to film the festival mov. foto 17  
n. 6:43-44 No 158. (MIRA 10:8)

1. Tsentral'naya studiya dokumental'nykh fil'mov.  
(Cinematography)

NEBYLITSKIY, Boris Endol'fovich; MAL'KOVA, G.B., otsetstvennyy red.;

APPROVED FOR RELEASE: Wednesday, June 21, 2000  
NEBYLITSKIY, Boris Endol'fovich; MAL'KOVA, G.B., otsetstvennyy red.; KUBRIYANOV, A.S., red. CIA-RDP86-00513R001130

[From the Volga to the Don; a cameraman's notebook] Ot Volgi k  
Donu: zapiski kinooperatora. Moskva, Gos. izd-vo detskoj lit-ry,  
1958. 157 p. (MIRA 11:7)

(Volga-Don Canal)

NEPYLITSKIY, F. I.

NEPYLITSKIY, F.I.; KOROZENKO, S.N., inzhener, retsenzent.

[Simplify laborious work processes; experience of innovator  
lathe operator N.A. Tkachenko] Rationalizatsia trudovnikh  
protsesov; opyt tokaria-novatora N.A. Tkachenko. Kiev, Gos.  
nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Ukr.  
otd-nie] 1953. 18 p. (MLRA 7:7)  
(Turning)



YLI  
LAPITSKIY, A.V.; NEBYLITSYN, B.D.

Metaniobate and metatantalate of iron (II). Vest.Mosk.un.Ser.  
mat.,mekh., astron., fiz.,khim. 12 no.2:199-207 '57. (MIRA 10:12)

1.Kafedra neorganicheskoy khimii Moskovskogo universiteta.  
(Iron niobate) (Iron tantalate)

LAPITSKIY, A.V.; NEBYLITSYN, B.D.

Causes of geochemical peculiarities of niobium and tantalum. Vest.  
Mosk. un. Ser. 4: Geol. '16 no.2:70-74 Mr-Apr '61. (MIRA 14:4)

1. Kafedra radiokhimii Moskovakogo universiteta.  
(Columbium) (Tantalum)

ROGOVINA, A.A.; DAVIDOVICH, N.I.; NEBYLITSYN, B.F.; NIKITIN, V.V.;  
KARGIN, V.A.

Studying the behavior of tire cords subjected to impacts.

Part 1. Pendulum impact machine for testing cord fibers.

Zhur. tekhn. fiz. 26 no.12:2684-2689 D '56.

(MLRA 10:2)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti,  
Moskva.

(Tires, Rubber--Testing)

NEBYLITSIN, V.D.

Individual differences in the visual and hearing analysors  
according to the strength sensitivity relationship. Vop. psi-  
khol. 3 no.4:53-69 J1-Ag '57. (MLRA 10:9)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,  
Moskva.

(HEARING) (SIGHT)

NEBYLITSYN, V.D.

Present status of factorial analysis. Vop. psikhol. 6 no.4:  
45-60 JI-Ag '60. (MIRA 13:9)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,  
Moskva.

(Factor analysis)

BOZHDESTVENSKAYA, V.I.; NEBYLITSYN, V.D.; BORISOVA, M.H.; YERMOLAYEVA-  
TOMINA, L.B.

Comparative study of various indexes of the strength of the nervous  
system in man. Vop. psikhol. 6 no.5:41-56 S-O '60. (MIRA 13:11)

1. Institut psikhologii APN RSFSR, Moskva.  
(Nervous system)

NEBYLITSYN, V.D.

Factorial structure of the intellect; survey of American works. Vop.  
psikhol. 7 no.2:169-175 Mr-Ap '61. (MIRA 14)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva.  
(Mental tests)

27 6310

39917  
S/044/62/000/007/097/100  
C111/C333

AUTHOR: Nebylitsyn, V. D.

TITLE: On the examination of the reliability of the work of human operators in automatic systems

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 81, abstract 7V398. ("Vopr. psikhologii", 1961, no. 6, 9-18)

TEXT: Discussed are the general problems concerning the reliability of a control system having a human operator as the principal link. The author says that the variety of factors which guarantee the reliability of the human link can be divided into three main groups: 1) the perfection of the apparatus from the engineering-psychological standpoint, and the qualifications of the operating personnel; 2) training, in particular the ability for training; 3) factors of basic individual character, in most cases the individual differences between operators relative to reliability depend on just such factors. To these groups belong anatomic-physiological factors (blood pressure, condition of the inner organs, vegetative sensitivity); psycho-physiological factors (the properties of the higher nerve activities of the individual; the strength of the nervous system in relation to the stimulus-  
Card 1/3

X



S/044/62/000/007/091/100  
C111, C333

On the examination of the . . .  
of failures in a given time interval; 3) the determination of the  
percentage of the fulfilled tasks; 4) the calculation of the probability  
of a satisfactory, errorless working during a certain time interval.  
[abstracter's note: Complete translation.]

X

Card 3/3

NEBYLITSYN, V.D.

Methods and systems of the automatic analysis of brain biopotentials.  
Vop. psikhol. 8 no.4:58-73 J1-Ag '62. (MIRA 16:1)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,  
Moskva.

(Electroencephalography)

NEBYLITSYN, V.D.

Structure of the fundamental properties of the nervous system.  
Vop. psikhol. no.4:21-34 J1-Ag '63. (MIRA 1'11)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,  
Moskva.

X.

TEPLOV, B.M.; NEBYLITSYN, V.D.

Study of the basic properties of the nervous system and their importance for the psychology of individual differences.

Vop. psikhol. 9 no.5:38-47 S-0'63. (MIRA 17:2)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva.

TEPLOV, B.M.; NEBYLITSYN, V.D.

Experimental study of the properties of the human nervous system. Zhur. vys. nerv. deiat. 13 no.5. 789-797 8-0'63 (MIRA 16:11)

Laboratory of Psychophysiology, Institute of Psychology, R.S.F.S.R. Academy of Pedagogical Sciences, Moscow.

MEMORANDUM, 7/2/74

"[The] [unclassified] [information] [is] [being] [provided] [to] [the] [CIA] [under] [the] [provisions] [of] [the] [CIA] [Reorganization] [Act] [of] [1949]."

report [and] [information] [from] [the] [CIA] [regarding] [the] [CIA] [and] [the] [CIA] [Reorganization] [Act] [of] [1949].

Memorandum [of] [Agreement].

ACCESSION NR: AP4031816

S/0247/64/014/002/0195/0203

AUTHOR: Noby\*litsyn, V. D.

TITLE: Individual difference factors in bioelectric brain potential reactions to rhythmic light stimuli

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 14, no. 2, 195-203

TOPIC TAGS: recruitment, recruitment index, EEG, brain bioelectric activity, light stimuli, individual recruitment difference, alpha frequency band, beta frequency band, theta frequency band, conditioned reflex, nervous system activity, intercorrelation of recruitment indices

ABSTRACT: Recruitment reactions to light stimuli frequencies were investigated in 15 men and 10 women, ages 20-32 yrs. The subjects were placed in a dark soundproof chamber and EEG were recorded while they were in a reclining position with eyes open. EEG were recorded bipolarly, and special frequency band filters made possible the simultaneous recording of their components: theta rhythm (5-7 cps),

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ACCESSION NR: AP4031816

alpha rhythm (9-12 cps), and beta rhythm (14-25 cps). Light stimuli were produced by an EFS-01 photostimulator with varied frequencies and intensities. With an integrator switched into the system, electrical activity could be measured quantitatively in terms of energy. To find accurate recruitment indices, the oscillation energy value of a frequency band was measured during continuous light stimulus and then during flashing light stimulus for the same length of time (10 sec) and the same intensity. The recruitment index was based on the difference between the two values. Recruitment indices were found for six intensities ranging from 25 to 1000 lux. Conditioned reflexes to sound stimuli were also investigated. Recruitment is found for theta, alpha, and beta rhythms and its effect is highest at 12 cps and lowest at 5 cps. The electrical reactions formed in the cortex during different frequencies of stimulation apparently depend on different factors of the nervous system. The relation among low frequency recruitment (theta rhythm band), cortical electrogenesis, and the cessation rate of activated conditioned reflexes indicates a certain dependence of all these indices on nervous system activity. Individuals with a weak nervous system display a tendency for recruitment within a wider frequency range.

Card 2/3

APR 21 1960



ACCESSION NR: AP4031816

especially the beta band, because of higher sensitivity. Or'g. art.  
has: 3 tables.

ASSOCIATION: Institut psikhologii APN RSFSR (Psychology Institute  
APN RSFSR)

SUBMITTED: 09Jul63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: AM

NO REF SOV: 033

OTHER: 006

Card 3/3

SECRET

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TOP SECRET

TOP SECRET

TOP SECRET

MEBYEUSYN, V.D.

Balance of nervous processes. Vop. psikhol. 10 no. 1:112-16. 1961.  
1. Institut psikhologii Akademii pedagogicheskikh nauk SSSR, Moskva.

DANILOV, V., inzh.; NEBYLOV, G., inzh.; TAL'YANOV, V., inzh.

The "Kazakhstan" and "Kazakhstan-2" radio receivers. Radio  
no.4:31 Ap '65. (MIRA 18:4)

SHEVANDIN, Yevgeniy Mikhaylovich (deceased); KAZV, Igor'  
Aleksandrovich; SHENSKY, I.A., zam. tech. nauk  
nauchn. red.; NEBYLOV, V.M., zam. tech. nauk,  
retsensent; YEROLITSKAYA, Ye.Ye., red.

[Cold brittleness and plasticity limit of metals in ship-  
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ta lov v sudostroenii. Leningrad, Sudostroenie, 1969.  
336 p. ISBN 5-12-001911-0

MEBYLON, Vladimir Matveyevich; BEL'CHUK, G.A., kandidat tekhnicheskikh nauk, redaktor; OSVENSKAYA, A.A., redaktor; DVORAKOVSKAYA, A.A., tekhnicheskiy redaktor.

[Strength of welded seams of ships' hulls] Prochnost' svarnykh shvov korpusa sudna. Pod obshchei red.kand.tekhn.nauk G.A.Bel'chuka. Leningrad, Gos.soiuznee izd-vo sudostroit.premyahl., 1955. 151 p. (Hulls (Naval architecture)--Welding) (MLRA 9:5)

BEL'GOVA, M.A.; BOYTSOV, G.V.; KANFOR, S.S.; KOROTKIN, Ya.I.; KUZOVENKOV,  
B.P.; MAKSIMADZHI, A.I.; NEBYLOV, V.M.; SBOROVSKIY, A.K.;  
TAUBIN, G.O.; FILIPPEO, M.V.; CHUVIKOVSKIY, G.S.; SHIMANSKIY,  
Yu.A., akademik, red.; LUCHININOV, S.T., otv.red.; OSVENSKAYA,  
A.A., red.; KONTOROVICH, A.I., tekhn.red.

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stroitel'noi mekhanike korablia. Leningrad, Gos.soiuznoe izd-vo  
sudostroitel'noy promyshl. Vol.3. 1960. 799 p.

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BOYTSOV, Gennadiy Vladimirovich; NEBYLOV, Vladimir Matveyevich;  
TAUBIN, Georgiy Osipovich. Prinsipal uchastiye SHAVROV, Yu.N.;  
BAYKOV, D.I., kand. tekhn.nauk, retsenzent; KOROTKIN, Ya.I.,  
kand. tekhn.nauk, retsenzent; SHAKHNOVA, V.M., red.; TSAL,  
R.K., tekhn. red.

[Strength of ship structures from aluminum alloys; design and  
calculations] Prochnost' sudovykh konstruktsii iz alumineievykh  
spлавov; proektirovanie i raschet. Pod obshchei red. G.O.Taubina.  
Leningrad, Sudpromgiz, 1962. 211 p. (MIRA 15:7)  
(Hulls (Naval architecture)) (Aluminum alloys)



PROCESSES AND PROPERTIES MODEL

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NEBYLOVA *yr*

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4638. ISOMERIZATION OF HYDROCARBONS. VI. BY PRODUCTS FORMED IN THE ISOMERIZATION OF BUTANES AND PENTANES UNDER THE INFLUENCE OF ALUMINIUM HALIDES AND THE MECHANISM OF THEIR FORMATION. Moldevskii, B., Nebylova, E and Nitovkina, T. (J. Gen. Chem. (U.S.S.R.) 1944, 14, 343-9; Chem. Abstr. 1945, 39, 3783).  $C_4H_{10}$  was passed in vapour phase over  $AlCl_3$  at 140; pentane was similarly treated at 60 and 40 and  $Mg_2CH_2Et$  was isomerized at 25, using  $AlEt_3$ . The reaction products contain hydrocarbons boiling both below and above the starting materials. The formation of such products is explained by methylation and demethylation induced by Al halides. Butanes were shown to yield propane and pentane isomers, while pentanes gave isomeric butanes and hexanes, the latter contg. a large proportion of  $Mg_2CH_2Et$ . Small amts. of high boiling paraffin hydrocarbons were also obtained.

*State Inst High Pressures*

ASB-514 METALLURGICAL LITERATURE CLASSIFICATION

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TSYSKOVSKIY, V.K.; SHCHEKOLOVA, TS.N.; NEBYLOVA, Ye.M.

Normal-structure liquid paraffins as raw material for the synthesis of higher fatty acids. Khim.i tekhnol.no.6:9-14 Je '56.(MLRA 9:9)

1.Leningradskiy nauchno-issledovatel'skiy institut.  
(Acids, Fatty) (Paraffins)

NEBYLOVA, E.M.

Kinetic rules for the oxidation of liquid paraffin hydrocarbons. V. K. Tsvetkov, E. M. Nebylova, and E. M. Shestova. *Zhur. Priklad. Khim.* 30, 423-7 (1959).—The oxidation of hydrocarbons was studied and it was shown that fatty acids with max. mol. wts. were formed only during the initial stages of the reaction. The continuous, rapid removal of the acids from the sphere of oxidation made it possible to obtain fatty acids from paraffin hydrocarbons

having the compn.  $C_{17}-C_{21}$  which were analogous to those acids formed from the prolonged oxidation of solid paraffin. J. Rovtar Leach

RM  
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NEBYLOVA Ye. M.  
TSYSKOVSKIY, V.K., kand.tekhn.nauk; NEBYLOVA, Ye.M.

Joint manufacture of higher fatty alcohols and acids from the  
continuous oxidation of liquid n-paraffins. Masl.-zhir. prom.  
23 no.9:30-33 '57. (MIRA 10:12)

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(Paraffins) (Fatty acids) (Alcohols)

TSYSKOVSKIY, V.K.; NEBYLOVA, Ye.M.; SHCHEGLOVA, TS.N.

Kinetic rules of the oxidation reactions of liquid paraffin hydrocarbons.  
Zhur.prikl.khim. 30 no.3:493-497 Mr '57. (MLRA 10:5)  
(Oxidation) (Paraffins)

TSYSKOVSKIY, V.K., kand.tekhn.nauk; NEBYLOVA, Ye.M., inzh.; NAZAROVA, S.S.

Latest development in the preparation of primary alcohols and their derivatives by the direct oxidation of short-chain n-paraffins. Masl.-zhir.prom. 25 no.12:16-20 '59.

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1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftyanoy khimii.  
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MEBYTOVA-LUK'YANCHIKOVA, M.N.

[diet for children in hospitals] Organizatsiia lechebnogo pitaniia  
detei v statsionarekh. Moskva, Medgiz, 1956. 56 p. (MLRA 10:1)  
(DIET IN DISEASE)



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meditsinskikh nauk

Pathogenic therapy in exudative diathesis. Vop.okh.mat. i det. 1  
no.3:46-53 My-Je '56. (MIRA 9:9)

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(INFANTS--DISEASES) (DIATHESIS)

~~NEB'TOVA-LUK'YANCHIKOVA, Mariya Nikolayevna~~

[Complete, natural feeding of infants] Polnotsennoe esteatvennoe  
vskarmlivanie rebenka. Leningrad, 1957. 31 p. (MIRA 11:4)  
(INFANTS--NUTRITION)

NEBTIOVA-LUK'YANCHIKOVA, M.N., prof.; GROMKOVSKAYA, A.A., kand.med.nauk  
(Moskva)

Infant feeding. Med.sestra 19 no.3:20-25 Nr '60.  
(INFANTS--NUTRITION)

(MIRA 13:5)

GOL'DFEL'D, A.Ya., doktor med. nauk; GINZBURG, Ye.Ya.; DUBINSKIY, S.O., prof. [deceased]; IG'ATOV, S.I., prof.; KHAVETS, E.M., doktor med. nauk; LEPSKIY, Ye.M., prof. [deceased]; NEBYTOVA-LUK'YANCHIKOVA, M.N., prof.; SPERANSKIY, G.N.; TUR, A.F.; DOMBROVSKAYA, Yu.F., otv. red.; BUBNOVA, M.M., prof.; red.; VLASOV, V.A., prof., red.; GRECHISHNIKOVA, L.V., red.; LEBEDEV, D.D., prof., red.; MASLOV, M.S., red. [deceased]; NOGINA, O.P., kand. med.nauk, red.; NOSOV, S.D., prof., red.; SOKOLOVA-PONOMAREVA, O.D., red.; TERNOVSKIY, S.D., red. [deceased]; KHOKHOL, Ye.N., red.; ZHUKOVSKIY, M.A., starshiy nauchnyy sotr., red.; MAZURIN, A.V., kand. med. nauk, red.; ZAKHAROVA, A.I., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.2. 1961. 566 p.

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(PEDIATRICS)

NEBYTOVA-LUK'YANCHIKOVA, Mariya Nikolayevna, prof.; ORLOVA, Sulamir'  
Abramovna, dotsent; PUSHINKOVA, Nina Alaksyevna, kand.med.nauk;  
LJR'YE, N.A., red.; CHUNAYEVA, Z.V., tekhn.red.

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grad, Medgiz, 1962. 231 p. (MIRA 15:2)  
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NEBYTOVA-LUK'YANCHIKOVA, M.N., prof. (Leningrad)

Nutrition of babies in the home. Med. sestra 21 no.4:7-16 Ap '62.  
(MIRA 15:4)

(INFANTS--NUTRITION)

L 19453-63 EWT(1)/FCC(w)/FS(v)-2/BDS/ES(a)/ES(j)/ES(c)/ES(k)/ES(t)-2/  
EEO-2/ES(v) AFFTC/AMD/AFMDC/ESD-3 Pb-l/Pi-l/Po-l/Pq-l/Pe-l TT/A/RD/DD  
ACCESSION NR: AP3007352 S/0293/63/001/001/0186/0191

AUTHOR: Khvostova, V. V.; Gostimskiy, S. A.; Mozhayeva, V. S.;  
Nebzgodina, L. V. 53 52

TITLE: Further study of the influence of conditions of space flight  
on chromosomes of primary roots of pea and wheat sprouts 2

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 186-191

TOPIC TAGS: space flight effect, chromosome reconstruction, 660  
Mev proton, cobalt 60 Gamma ray, Vostok 1, Vostok 2, Vostok 3,  
Vostok 4

ABSTRACT: Dry seeds of winter wheat (PPG-186) and peas ("Kapital"  
variety) were exposed to effects of space flight on the four Vostok  
spaceships. A cytological analysis of the sprout roots of seeds in-  
dicated that exposure to space flight resulted in a small but sta-  
tistically significant increase in chromosome reconstructions. The  
percentage of reconstructions does not depend on the duration of  
flight. More reconstructions were found in seeds flown in Vostok-2  
than in seeds flown in Vostok-3, in which there was a distinct, 12

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ACCESSION NR: AP3007352

but not statistically significant increase. There was no increase in the number of reconstructions in seeds flown in Vostok-4. Control seeds were subjected to radiation and vibration in an attempt to identify which aspects of space flight were responsible for the increase. Exposure to vibration (70 cps; amplitude, 0.4 mm) for 4 hr did not increase the number of reconstructions. Exposure of seeds to 660-Mev protons (dose 1940 rad; rate, 43/min) was no more effective as far as the number of reconstructions is concerned than exposure to Co<sup>60</sup> γ-rays (dose, 1940 rad; rate, 289/min). Orig. art. has: 4 tables.

ASSOCIATION: none

SUBMITTED: 24Apr63

DATE ACQ: 21Oct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 007

OTHER: 001

Card 2/2



NEC, Rudolf

Dehydration of solvents by aromatic isocyanates. Chem  
prum 13 no. 12: 638-640 D '63.

1. Vychodoceske chemicke zavody Synthesia, n.s., Pardubice  
Semin.

NEC, Rudolf

Symposium on polyurethans in Hungary. Chem pruz L. no.4:211  
Ap '64.

1. Vychodoceske chemicke zavody Synthesia National Enterprise,  
Pardubice - Semtin.

Nik, Rudolph

Cycle of lectures on polyurethanes in Prague. Chem. pr. 24 1965:  
269 Ny '64.

1. Vychovacek chemické závody Syntesia, Pardubice.

CZECHOSLOVAKIA/Chemical Technology. Chemical  
Products and Their Applications.  
Food Industry.

H

Abstr Jour : Ref Zhur-Khimiy, 1958, 10, 21285

Author : Hanus, Jiroslav; Matejovsky, Karel;  
Menclova, Marie

Inst : -  
Titl : Sanitation in Bread Baking.

Orig Pub : Prmysl potravin, 1958, 9, 317-321

Abstract : No abstract.

Copies : 1/1

H-123

NECAS, Emanuel, MUDr.

Experiences with the fulfillment of the plan of construction of regional hospitals in Boskovice. Cesk. zdravot. 4 no.9: 552-554 Sept 56.

1. Reditel okresniho ustavu narodniho zdravi.  
(HOSPITALS,  
construction in Czech. (Cz))

NECAS, Ivo, inz.

Manufacturing of foam polystyrene containers in machinery plants. Jemna mech opt 6 no.10:298-301 0 '61.

1. Metra Blansko.

L 14745-66 FSS-2

ACC NR. APG019421

(A)

SOURCE CODE: CZ/0078/66/000/005/0026/0026

INVENTOR: Necas, Augustin (Prague)

ORG: none

TITLE: [Firing pin for a firearm] CZ Pat. No. PV 2697-65, Class 72

SOURCE: Vynalezny, no. 5, 1966, 26

TOPIC TAGS: ordnance, weapon *auxiliary equipment*

ABSTRACT: A firing pin for a firearm for center and edge firing swinging through 180° is described. The distinguishing feature of the device is that on the frame is mounted an insert with an excentric opening to receive the firing pin cushioned by a spring. At the same time, by means of a recess the insert and the firing piece are secured in the operating position by a bolt across the frame of the firearm.

SUB CODE: 19/ SUBM DATE: 26Apr65

Card 1/1 mjs

ACC NR: AP6028180

(A)

SOURCE CODE: CZ/0078/66/000/006/0028/0028

INVENTOR: Necas, Augustin (Prague)

ORG: none

TITLE: [Cartridge ejector for an automatic pistol] CZ Pat. No. PV 2794-65

SOURCE: Vynalezky, no. 6, 1966, 28

TOPIC TAGS: weapon, <sup>component</sup> ~~ejector~~, ~~ejector~~ design *lead to lead combat weapon*

ABSTRACT: A cartridge ejector fitted with a cog is described which is designed for an automatic pistol and has the distinguishing feature that it is obliquely mounted on the pin and positioned in the slot of the button which is hinge-mounted in the slotted hole of the lock. At the same time the ejector with its lug rests on the bottom of the button slot which is suspended by a spring and positioned between the bottom of the slotted hole and the bottom of the button slot.

SUB CODE: 19/ SUBM DATE: 29Apr65

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MECAS, J.

Ivo Babuska, Aarel Rektorys and Frantisek Vycichlo's Matematicka theorie rovinne pruznosti (The Mathematical Theory of Plane Elasticity); a book review.

P. 105, (Casopis Pro Pestovani Matematiky) Vol. 82, no. 1, Mar. 1957  
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (MEEA) Vol. 6, No. 11 November 1957

3226. Necas, J. Solution of the biharmonic problem for an infinite wedge (in Czech) *Casopis Pest. Mat. Fys.* **83**, 257-286 and 399-424, 1958.

Author proves the existence and uniqueness of the solution of the biharmonic problem (plane problem of the theory of elasticity) for an infinite wedge. Biharmonic problem for a plane polygon is also solved. Mellin's transform is used and discussed in detail. Practical calculation is performed by introducing the four Green functions obtained through the formal use of the convolution theorem. Difficulties involved in the numerical calculation are completely studied.

P. P. Teodorescu, Roumania

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NECAS, J.

Solution of the biharmonic problem for the infinite wedge. II. p. 399

CASOPIS PRO PESTOVANI MATEMATIKY. (Ceskoslovenska akademie ved. Matematicky ustav)  
Praha, Czechoslovakia

Vol. 83, no. 4, Nov. 1959

Monthly list of East European Accessions (EEAI) LC. VOL. 9, no. 1 January 1960

Uncl.

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D221/D302

16.5600

AUTHOR: Nečas, Jindřich

TITLE: On boundary values of the function which have a finite Dirichlet integral

PERIODICAL: Aplikace matematiky, v. 5, no. 3, 1960, 202-208

TEXT: This article describes the conditions for a function (which is defined at the boundary of a region) that permit its continuation over the whole region; this continuation has a finite Dirichlet integral. The author first refers to the main works in this field of S.M. Nikol'skiy (Ref. 4: K zadache Dirikhle dlya kruga i poluprostranstva [Dirichlet's problem for a circle and a half-space], Matematicheskii sbornik, tom 35, 1954, 247-265), T.I. Amanov, E. Gagliardo, G. Prodi, L.N. Sloboděckij and V.M. Babič [Abstractor's note: No references given for the latter five individuals], L. de Vita (Ref. 5: Sulle funzioni ad integrale di

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On boundary values of the ...

is defined at the boundary  $\Omega$  and has there a limited Dirichlet integral, is that it can be quadratically integrated at the boundary, as follows from the theorems by S.L. Sobolev (Ref. 1: Nekotoryye primeneniya funktsional'nogo analiza v matematicheskoy fizike (Some Applications of Functional Analysis in Mathematical Physics), Leningrad, 1950). It is stated here that the function  $f$  which is defined over  $\Omega$  has a finite Dirichlet integral if the first derivatives of function  $f$  over  $\Omega$  can be quadratically integrated. Symbolically expressed,  $f \in W^{(1)}(\Omega)$ . By the Dirichlet inte-

gral we mean the term  $\int_{\Omega} \left[ \left( \frac{\partial f}{\partial x} \right)^2 + \left( \frac{\partial f}{\partial y} \right)^2 \right] d\Omega$ . Theorem 2 states: "f

lies in  $W(\Omega)$  only then when it lies in  $W(K)$ ." [Abstractor's note:  $K$  denotes a circle]. A short basic proof of the first part of the statement can be proved in the same manner. Theorem 3 states:

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On boundary values of the ...

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"f lies in  $\mathcal{W}(K)$  only then when it lies in  $\mathcal{W}(K_c)$ ." [Abstractor's note: Here  $K_c$  is the exterior of the unit circle]. The proof of this theorem is obtained directly by applying the inverse mapping. Theorem 4 which follows from Theorem 3 states: "f lies in  $\mathcal{W}(\Omega)$  only then when it lies in  $\mathcal{W}(\Omega_c)$ ." [Abstractor's note: Here  $\Omega_c$  is the complement of  $\bar{\Omega}$ ]. It follows from Theorem 2 states the author that one can limit oneself to the unit circle. Theorem 5 states: The necessary and sufficient condition that  $f \in \mathcal{W}(K)$  is that

$$\sum_{k=1}^{\infty} k(a_k^2 + b_k^2) < \infty \quad \text{where (1) } a_k = \frac{1}{\pi} \int_0^{2\pi} f(s) \cos ks \, ds,$$

$$b_k = \frac{1}{\pi} \int_0^{2\pi} f(s) \sin ks \, ds. \quad \text{The proof of this theorem is very simple}$$

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On boundary values of the ...

and can be found in R. Courant (Ref. 2: Dirichlet's principle, conformal mapping and minimal surfaces. New York 1950). Theorem 6 states: The necessary and sufficient condition that  $f \in W(K)$  is that

$$\int_0^{2\pi} \int_{-\pi}^{\pi} \left[ \frac{f(\varphi + t) - f(\varphi - t)}{t} \right]^2 dt d\varphi < \infty. \text{ The proof of this theorem}$$

can be found in G. Freud and D. Králík (Ref. 3: Op.cit.). Theorem

7 states: Let  $f \in W(K)$ . Then  $\int_{-\pi}^{\pi} [f(s + t) - f(s - t)]^2 ds \leq M/t$ , where

M is a constant. The proof of this theorem can be found in the article by S.M. Nikol'skiy (Ref. 4: Op.cit.). Theorem 8 states: Let M be a constant such that

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$\int_0^{2\pi} |f(s+h) - f(s)|^2 ds \leq M/h^{1+\epsilon}$ , where  $\epsilon > 0$ . Then  $f \in W(\dot{K})$ . The

proof is given in the abovementioned article by S.M. Nikol'skiy (Ref. 4: Op. cit.). Theorem 9 states: Let  $f(s)$  be a Holder function with the power  $\frac{1}{2} + \epsilon$  where  $\epsilon > 0$  (i.e.  $|f(s+h) - f(s)| \leq M/h^{\frac{1}{2} + \epsilon}$ ,  $M$  is a constant). Then  $f \in W(\dot{K})$ . As proof the author

states that in fact  $\int_0^{2\pi} |f(s+h) - f(s)|^2 ds \leq 2\pi M^2/h^{1+2\epsilon}$ , thus

$f \in W(\dot{K})$  according to Theorem 8. The absolute continuity of function  $f$  is not sufficient for  $f \in W(\dot{K})$  and a counter example is given by L. de Vita (Ref. 5: Op. cit.). Theorem 10 states: "Let  $f$

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On boundary values of the ...

be an absolutely continuous function" and let (2)

$$\int_0^{2\pi} |f'(s)/\lg^+|f'(s)|| ds < \infty. \text{ Then } f \in W(\dot{K})(\lg^+|f'(s)| -$$

= Max (0, lg/f'(s)/)). As regards the proof, it follows from Theorem 6.36, p. 138 of the monograph by A. Zygmund (Ref. 6: Trigonometrical series. Warszawa - Lwów, 1935) that the condition (2) is

sufficient for  $\sum_{k=1}^{\infty} (|a_k| + |b_k|) < \infty$ , where  $a_k, b_k$  are Fourier's

coefficients of function  $f$  according to (1). Hence the function

$$\varphi(s) = \sum_{k=1}^{\infty} a_k \sin ks - b_k \cos ks \text{ is limited on the unit circle.}$$

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On boundary values of the ...

According to Theorem S. 154 in (Ref. 6: Op. cit.) condition (2) and the "boundedness" of function  $\varphi$  are sufficient for

$$-\frac{1}{\pi} \int_0^{2\pi} f'(s) \varphi(s) ds = \sum_{k=1}^{\infty} k(a_k^2 + b_k^2) \quad \text{to be valid and hence the}$$

theorem is proved. Theorem 11 states: "If  $f$  is absolutely continuous

and if  $\int_0^{2\pi} |f'(s)|^p ds < \infty$  where  $p > 1$ , then  $f \in W(K)$ ." As proof

the author states that it follows from Sobolev's theorem that if  $f \in W(K)$  then  $\int_0^{2\pi} |f(s)|^p ds < \infty$  for any  $p > 1$ . Theorem 12 states:

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Let  $\int_0^{2\pi} [f(s+h) - f(s)]^2 ds \leq M/h$ , where  $M$  is a constant. Then

$\int_0^{2\pi} |f(s)|^p ds < \infty$  for any  $p > 1$ . With regards to proof, there is

$$(3) \int_0^{2\pi} [f(s+h) - f(s)]^2 ds = 4\pi \sum_{k=1}^{\infty} (a_k^2 + b_k^2) \sin^2 \frac{kh}{2} \leq M/h.$$

Let  $q$

be an arbitrary number  $1 < q < 2$ , and let  $\lambda$  be  $0 < \lambda < 1$ , and  $\lambda \frac{q}{2-q} > 1$ ;  $\lambda$   
from (3) follows (4)

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$$\sum_{k=1}^{\infty} k^{1+\lambda} (a_k^2 + b_k^2) \frac{\sin^2 \frac{kh}{2}}{(k/h)^{1+\lambda}} = \frac{M}{4\pi} /h/^{-\lambda}$$

This is integrated with

respect to h from zero to unity and from (4) the inequality (5)

$$\sum_{k=1}^{\infty} k^{\lambda} (a_k^2 + b_k^2) \leq \frac{\pi}{2} M \frac{1}{1-\lambda}$$

is obtained. Theorem 13 states: Let f

be absolutely continuous and  $\int_0^{2\pi} |f'(s)|^p ds < \infty$  and moreover

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