

ANDZHELESKU,

RUMANIA/Physical Chemistry - Thermodynamics,  
Thermochemistry.

B.

Abs Jour : Ref Zhur - Khimiya, No 12, 1958, 38944

Author : Andzhelesku, Khelski

Inst : University "C.I. Parhon"

Title : Reaction Products of Aromatic Amines with Acetic Acid.

Orig Pub : An. Univ. "C.I. Parhon" & Ser. stiint., natur., 1956,  
No 11, 113-121

Abstract : In the study of molecular volume, volume compression,  
viscosity, surface tension, molecular surface energy,  
refraction index and molecular refraction, a deviation  
from addition was revealed in the two-phase system:  
Acetic acid - aromatic amines (sec. methyl aniline, -  
ethylaniline and tertiary-dimethyl aniline, -diethylaniline). A conclusion was reached on the formation

Card 1/2

Andzhelich, T.P.

YUGOSLAVIA/Theoretical Physics

B-4

Abs Jour : Referat Zhur - Fizika, No 5, 1957, No 10855

Author : Andzhelich, T.P.

Inst : Not given

Title : Derivation of the Angular Momentum Operator in Quantum Mechanics.

Orig Pub : Bilten Drusht. matem. i fiz. Nar. Rep. Makedonija, 1955, 6, 30-34

Abstract : In quantum mechanics one employs not usually the angular momentum, but its square

$$M^2 = -\hbar^2 \Lambda = -\hbar^2 [I, \nabla]^2.$$

The author obtains an analogous expression in the generalized coordinates with a matrix tensor  $\xi_{ik}$ :

$$\Lambda = \delta_{pq}^{jk} g_{mn} \sim^m (D/Dx_k) (\sim^p g^{ij} D/Dx^l)$$

here  $D/Dx$  is the covariant derivative, whose use depends on the tensor rank of the wave function of the system, having a momentum  $\underline{M}$ .

Card 1/1

ANDZHELOV, B.O., kandidat meditsinskikh nauk

Bacterial dysentery and dyspepsia in infancy. *Pediatrics* 39 no.3:  
46-47 My-Je '56. (MLRA 9:9)

1. Iz kafedry epidemiologii (zav. - prof. A.B.Aleksanyan)  
Yerevanskogo meditsinskogo instituta  
(DYSENTERY, BACTERIAL, in inf. and child  
diag. statist.)  
(GASTROINTESTINAL DISEASES, in inf. and child  
dyspepsia, diag. & statist.)

ANDZHELOV, B.O.

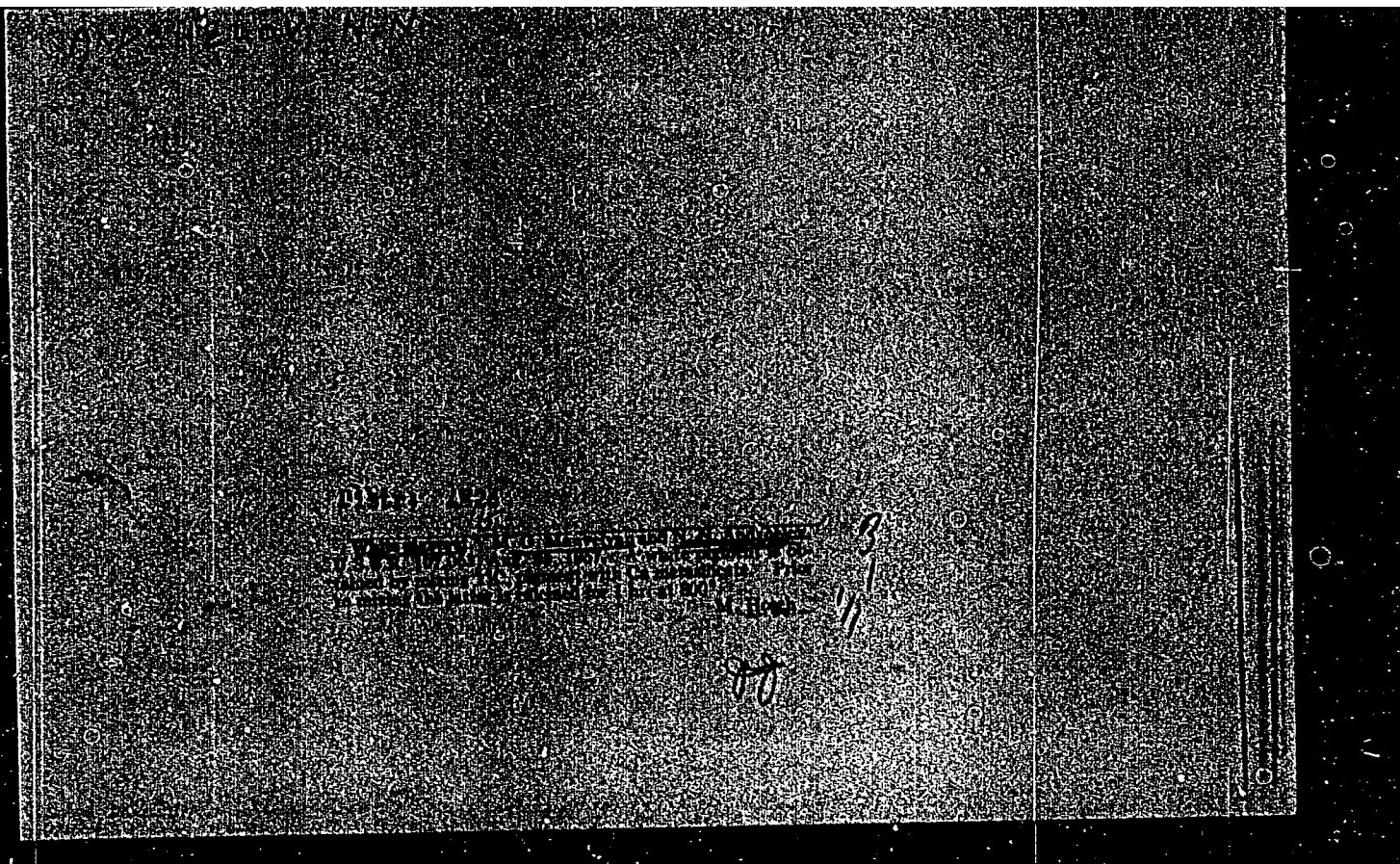
Epidemiology of bacillary dysentery. Izv. AN Arm. SSR Biol. i  
sel'khoz. nauki 11 no.6:101-104 Je '58. (MIRA 11:7)

1. Armyanskiy gosudarstvennyy pedagogicheskiy institut.  
(Erivan--Dysentery)

ANDZHELOV, B.A.

Some data on acute intestinal diseases of children. Izv. AN Arm.  
SSR, Biol. nauki 12 no. 12:27-31 D '59. (MIRA 13:6)

1. Armyanskiy pedagogicheskiy institut.  
(INTESTINES--DISEASES)



ZHMIYEVSKAYA, L.Ya., inzh.; ~~ANDZHEYEVSKIY, B.N., inzh.~~

Agricultural machinery industry in the Polish People's Republic.  
Trakt.i sel'khoz mash. no.8:42-43 Ag '59. (MIRA 12:11)  
(Poland--Agricultural machinery industry)

STARYY, I.B.; AMBUSHIYEVSKIY, G.K.

Crystal holder for precision bending of crystalline plates.  
Nauch. zap. Od. ped. inst. 25 no.2:105-107 '61.  
(MIRA 18:2)



L 3620-66 EWT(1)/FS(v)-3 DD

ACCESSION NR: AP5023673

UR/0219/65/060/009/0038/0042

616-036.882-591.543.42+616-036.882-08

AUTHOR: Andzhus, R.; Khozich, N.

41  
39  
B

TITLE: The duration limits of reversible clinical death for some hibernating and nonhibernating animals with a body temperature of 0C and the possibility of artificially prolonging this state

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 9, 1965, 38-42

TOPIC TAGS: animal physiology, hypercapnia, hypoxia, <sup>2</sup>hypothermia, rat, clinical death, microwave diathermy, suslik, hibernation

ABSTRACT: Improved methods of reviving animals cooled to a rectal temperature of 0C are demonstrated. In addition, the duration of clinical death during deep hypothermia was investigated, and artificial means of prolonging reversible clinical death were studied. Unanesthetized white rats were cooled in three stages: 1) in a hermetically sealed vessel with a temperature of 0-5C; 2) in an ice bath; and 3) in a propylene glycol or glycerine solution with a temperature below zero. Clinical death sets in at a body temperature of 10C. Revival was begun with simultaneous microwave diathermy (localized in the pericardiac region) and artificial  
Card 1/3

L 3620-66

ACCESSION NR: AP5023673

respiration (blowing air through the nostrils). When cardiac and respiratory activity resumed (at 15C), animals were placed in a warm bath (40C). Finally, animals were placed in a thermochamber (32C) because their temperature-regulating mechanisms remain disturbed for a few hours or days after revival. Comparative experiments were conducted with nonhibernating animals (rats) and hibernating animals (susliks) to determine the limits of reversible clinical death. Results showed that 100 percent of the rats could be completely revived if the period of clinical death did not exceed 60-70 min. When circulation had been stopped for 2 hr, none of the animals could be completely revived. It was found that susliks can endure a significantly longer period of clinical death: 100 percent of the animals survived 3 hr, and 50 percent survived 5 1/2 hr. It is postulated that only hibernating animals can withstand 3 hr or more of clinical death, with the understanding that they must be artificially revived. While hibernators are in a state of normal activity, they tend to resist clinical death better than nonhibernators, but their resistance during hibernation, as shown in previous experiments by the authors, is less than that of cooled nonhibernators. In an attempt to prolong the duration of reversible clinical death, rats were subjected to 5-7 preliminary coolings to 0C with 6-day intervals. About one-third of the group could withstand 2 hr of clinical death. Susliks cooled 4 times with 6-day intervals could survive 7 hr of clinical death, the longest period the authors

Card 2/3

L 3620-66

ACCESSION NR: AP5023673

2

achieved for any mammals. It is interesting to note that preliminary conditioning of rats to hypoxia did not increase resistance to clinical death. The adaptation mechanism which increases resistance to clinical death is unclear and will be the subject of further study. Orig. art. has: 4 figures. [JS]

ASSOCIATION: Yestestvenno-matematicheskij fakul'tet Instituta fiziologii  
(Department of Mathematics and Natural Sciences, Institute of Physiology) Biologicheskij institut, Belgrad (Institute of Biology)

SUBMITTED: 21Nov64

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 005

ATD PRESS: 4114

*Delh*  
Card 3/3

L 11628-66

ACC NR: AP6001978

SOURCE CODE: UR/0219/65/060/012/0082/0085

AUTHOR: Andzhus, R., i Khozich, N.

33  
B

ORG: Physiology Institute of the Natural Mathematics Division  
(Institut fiziologii yestestvennogo-matematicheskogo fakul'teta);  
Biological Institute, Belgrad (Biologicheskij institut)

TITLE: Temperature limits for clinical death reanimation in certain hibernating and nonhibernating animals under deep hypothermia

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 12, 1965, 82-85

TOPIC TAGS: anabiosis, experiment animal, temperature adaptation, hypothermia, supercooling

ABSTRACT: Experiments were conducted on rats, mice, and susliks (gophers) to determine the lowest body temperatures at which reanimation from clinical death is possible. Deep hypothermia below 0C without freezing (crystallization) of organs was induced by immersing clinically dead animals, cooled earlier to 0C, into 50% glycerine or propylene glycol solutions and cooling the solutions until body temperatures dropped to -6 or -7C. Below this point freezing takes place, and a characteristic sharp rise of rectal temperature is

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UDC: 617-001.18-036.882-08.092.0

L 11628-66

ACC NR: AP6001978

observed as a result of latent heat released by crystallization. Reanimation techniques used are described in earlier studies. Findings show that the lowest temperature for clinical death is about -7C at which point complete supercooling is achieved. However, temperatures below 0C, especially in the case of susliks, do not prolong the period of reversible clinical death and even shorten it. The longest period of supercooling followed by successful reanimation was 40 minutes in an adult rat. The longest period of clinical death with complete supercooling to -5C was 1 hr for susliks. The authors conclude that reduction of body temperatures below 0C, despite the absence of the irreversible crystallization effect, does not prolong the period of reversible clinical death. Orig. art. has: 4 figures. [06]

SUB CODE: 06/ SUBM DATE: 21Nov64/ ORIG REF: 002/ OTH REF: 003

MTD PRESS: 4177

Card 2/8

~~I 5131-66 EWT(1)/FS(v)-3 DD~~  
ACC NR: AP5027481

SOURCE CODE: UR/0219/65/060/010/0073/0076

AUTHOR: Andzhus, R.; Kozich, N.; Chirkovich, T.

ORG: Physiology Institute, Department of Mathematics and Natural Sciences, Belgrade University // Institut fiziologij yestestvenno-matematicheskogo fakul'teta Belgradskogo universiteta; Biology Institute, Belgrade (Biologicheskiy institut)

TITLE: Some features of brain tissue metabolism in certain hibernating and non-hibernating animals during clinical death in deep hypothermia

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 10, 1965, 73-76

TOPIC TAGS: animal physiology, biologic metabolism, brain tissue, hibernation, hypothermia

ABSTRACT: As part of a continuing investigation of metabolic processes in the brain during clinical death, a comparative study was made of changes in high-energy phosphates (creatinephosphoric acid, adenosine triphosphate [ATP], adenosine diphosphate [ADP], and adenosine monophosphate [AMP]) and products of anaerobic metabolism, especially lactic acid. Clinically dead rats and susliks with body temperatures of 0C and 15C were used. In addition, some animals in a state of hypothermia were subjected to asphyxia by pressing of the trachea. Asphyxiated rats with a body temperature of 15C showed the following biochemical changes: 1) the creatinephosphoric acid

Card 1/2

UDC: 616-036.882-06:617-001.18]-07:616.831-008.921.8-074-092.9

L 5131-66

090/2479

ACC NR: AP5027481

0

content dropped 10 min after the cessation of respiration; 2) the ATP content decreased more slowly; 3) the ADP level increased during agonal breathing and then normalized; 4) the AMP level increased continuously; and 5) the lactic-acid level increased. The changes observed in high-energy phosphates are not peculiar to hypothermia, but this temperature level is experimentally more convenient. When these indices were determined for susliks in a state of hypothermia, the following differences were observed: 1) the creatinephosphoric acid and ATP levels dropped considerably more slowly than in rats; 2) the period of agonal breathing lasted longer; and 3) the lactic-acid content increased more rapidly and reached significantly higher levels. Thus, the greater resistance of susliks to clinical death in severely anoxic conditions is apparently connected with features of anaerobic processes in suslik tissue. It was concluded that suslik brain tissue can more effectively use anaerobic energy reserves than rat brain tissue can. Orig. art. has: 4 figures. [JS]

SUB CODE: LS/ SUBM DATE: 21Nov64/ ORIG REF: 002/ OTH REF: 004/ ATD PRESS: 4/33

bc

Card 2/2

L 26361-66 EWT(1)/EWT(m)/EPF(n)-2/EWA(d)/EWP(j)/EWP(k)/EWA(h)/EWA(l)

ACC NR: AP6012503 IJP(c) WW/GG/RM SOURCE CODE: UR/0181/66/008/004/1277/1279

AUTHOR: Aneli, D. N.; Petrov, A. A.

ORG: Institute of Organcelemental Compounds AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR); Institute of Organic Chemistry im. N. D. Zelinskiy AN SSSR, Moscow (Institut organicheskoy khimii AN SSSR)

TITLE: Effect of high<sup>2/</sup> pressure on the concentration of free radicals in irradiated molecular crystals<sup>19</sup>

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1277-1279

TOPIC TAGS: molecular crystal, radiochemistry, free radical, IR spectrum

ABSTRACT: The authors study the behavior of free radicals in irradiated molecular crystals of various organic acids during compression and under the combined action of pressure up to 50 kbar and shearing force. The shear force was also determined as a function of the pressure applied to the specimens. The specimens were molecular crystals of adipic<sup>1</sup> and glutaric acids and glycine<sup>1</sup> irradiated at room temperature by x-ray with an approximate dose of  $\sim 10^7$  r. The radical concentration in the specimens was  $10^{17}$ - $10^{18}$  per gram before the high pressure experiments. Controlled tests were conducted on non-irradiated specimens. The experimental data show that compression and deformation of compressed irradiated specimens of the three acids reduce concentration

Card 1/2



L 26361-66

ACC NR: AP6012503

of free radicals. The combined action of pressure and shearing force destroys a greater number of radicals in adipic and glutaric acids than pressure alone. This difference is also observed for glycine, but only at pressures below 40 kbar. It is also noted that plastic deformation of glycine specimens at pressures of 50 kbar is accompanied by faint red coloration both with and without irradiation. The IR-spectra show no chemical changes for any of the three salts subjected to shearing at these pressures. No polymorphic transformation takes place in any of these specimens at pressures above 6 kbar. It is possible that a sharp drop in radical concentration for glutaric acid at pressures of 3-6 kbar is due to polymorphic transformation under pressure. A theoretical explanation is proposed for radical destruction based on the assumption that there are a large number of defects in the irradiated deformed crystal. We are deeply grateful to A. I. Kitaygorodskiy and M. G. Gonikbert for interest in the work. Orig. art. has: 1 figure.

SUB CODE: 20/

SUBM DATE: 01Nov65/

ORIG REF: 001/

OTH REF: 004

Card 2/2

I 4181-66 GWT(m)/RSP(j) RM

ACC NR: AP6024021

SOURCE CODE: UR/0062/65/000/006/1090/1091

AUTHOR: Gonikberg, M. G.; Petrov, A. A.; Aneli, Dzh. N. 563ORG: Institute of Organic Chemistry im. N.D. Zelinskiy, Academy of Sciences, SSSR  
(Institut organicheskoy khimii Akademii nauk SSSR)TITLE: Change in certain properties of phenolphthalein and thymolphthalein as a result of plastic deformation under high pressure

SOURCE: AN SSSR. Izv. Ser khim, no. 6, 1966, 1090-1091

TOPIC TAGS: high pressure, plastic deformation, phenolphthalein, thymolphthalein,  
*PHENYL COMPOUND, ELECTRON SPIN RESONANCE, CHEMICAL INDICATOR, CRYSTAL LATTICE DISLOCATION*

ABSTRACT: It has been shown earlier that plastic deformation at high pressure in the solid indicators phenolphthalein and thymolphthalein causes the appearance of narrow electron spin resonance (ESR) signals which are stable at room temperature and vanish almost entirely on heating to 100°. The stresses caused by the shear in the crystals led to an irreversible disordering of the crystal lattice. Continuing this study, the authors attempted to determine the dependence of the shearing force on the pressure, and to explain the attendant change in the concentration of unpaired electrons. The plastic deformation of the indicators was carried out at pressures up to 50 kbar. In the study of shearing force versus pressure, the presence of abrupt irreversible changes was observed at 12-15 and 14-16 kbar; x-ray diffraction analysis showed that these changes represent a disordering of the crystal lattices of the indicators. Plastic

Card 1/2

UDC: 541.12.034.2+541.51

L 41314-66

ACC NR: AP6024021

deformation of the latter under high pressures was found to cause the appearance of unpaired electrons: in phenolphthalein, their concentration increases from  $10^{14}$ - $10^{15}$   $g^{-1}$  at ~23 kbar to  $\sim 10^{17}$   $g^{-1}$  at 50 kbar; in thymolphthalein, from  $10^{14}$ - $10^{15}$   $g^{-1}$  at ~17 kbar to  $\sim 10^{17}$   $g^{-1}$  at 50 kbar. Orig. art. has: 1 figure.

SUB CODE: 07,11/ SUBM DATE: 11Nov65/ ORIG REF: 002/ OTH REF: 002

Card 2/2 hs



117 AND 118 (REV. 1-5-58) 119 AND 120 (REV. 1-5-58)

PROCESSES AND PROPERTIES INDEX

*BC*  
ANELI, H. H. *11*

*Exhibiting action of blue light on germination of tomato seeds. N. A. Aneli (Comm. Acad. Sci. U.R.S.S., 1940, 22, 287-288).—Blue light (3-cm. filter of 0.91% aqueous methylene blue) inhibits germination. During germination tyo-catalase is diminished and deoxy-catalase increased but not to the same extent as when germination is in the dark. The rate of respiration is diminished in blue light, as is the rate of utilization of fat in the seeds. The formation of starch and disaccharides is increased.*  
 J. L. D.

METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNONYMS      FROM ALIEN CHARACTERS      BY SOURCE

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

ANELI, N.A.

Interesting specimen of magnolia. Biul.Glav.bot.sada no.14:101-102 '52.  
(MLRA 6:5)

1. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR.  
(Magnolia)

ANELI, N.A.

Cauliflory of the four-o'clock and bougainvillaea. Soob. AN  
Gruz. SSR 34 no.2:425-431 My '64. (MIRA 18:2)

ANELI, N.A.; SHTROMBERG, A. Ya.

Special characteristics of the structure of the conducting  
system in the Georgian genistas. Bot. zhur. 49 no.7:1018-  
1022 JI '64 (MIRA 17:8)

1. Khimiko-farmatssvticheskiy institut, Tbilisi.



STARS

3971

Anempodistov, V. P., E. G. Kasharskiy, and S. D. Usov

Problemy konstruirovaniya turbogeneratorsstroeniya. (Problems of Building Large Turbo-generators) Moscow, Izd-vo AN SSSR, 1960. 73 p. 3,500 copies printed.

Sponsoring Agency: Akademiya Nauk SSSR. Institut elektromekhaniki.

Ed.: I. D. Usov; Ed. of Publishing House: A. A. Chizhov; Tech. Ed.:  
N. A. Krogulitsa.

PURPOSE: This booklet is intended for engineers and scientists.

COVERAGE: The problems discussed in the booklet refer in considerable degree, to the machinery of tomorrow. Thus, the authors have had to base their work on data from design and research projects. They set out some basic trends in the development of turbogenerator manufacturing and indicate the course for further research and development. Chapters I and II were written by V. P. Anepodistov, chapter III by E. G. Kasharskiy, chapter V and VI by

Card 1/3

Problems of Solving Large (Cont.)

SOV/5971

I. D. Ushakov, and chapter IV (1-3) by the author. The authors thank  
N. V. Varkalov. There are 18 references: 2 Russian, 4 German, 10 English.

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Problems of Building Large Generators	CONTENTS
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AVAILABLE: Library of Congress	KM/Rem/fal 8-24-60
Card 3/3	

ANEMPODLSTOV V. P.

Collected Papers (Cont.)

SOV/4172

Sbornik rabot po voprosam elektromekhaniki, vyp. 3: Energeticheskiye sistemy, elektromashinostroyeniye, elektricheskaya tyaga, avtomatizirovannyy elektroprivod, avtomaticheskiye i telemekhanicheskiye sistemy, elektroavarnoye oborudovaniye, Moscow, Izd-vo AN SSSR, 1960. 314p  
publ. from Akad. nauk SSSR. Institut elektromekhaniki

ELECTRIC MACHINERY CONSTRUCTION

Anempodistov, V.P. Modern Methods of Direct Cooling of Turbogenerators 118  
The author considers the advantages of direct cooling of turbogenerator armature windings and describes ventilation diagrams. He concludes that direct cooling of winding copper makes it possible to increase the rated power of the turbogenerator without altering its dimensions.

Dartau, A.A. Calculation of Magnetic Dispersion Reactance of Two Layer End Windings 130  
The author establishes a method for calculating the reactance of two-layer end windings based on separating the reactance into its axial and tangential components. A formula is derived expressing the reactance as a function of  
Card 6/13

*ANEMFEDISTOV, V.P.*

PHASE I BOOK EXPLOITATION

SOV/4706

Akademiya nauk SSSR. Institut elektromekhaniki

Sbornik rabot po voprosam elektromekhaniki, vyp. 4: Elektricheskiye mashiny, elektricheskiy privod, elektricheskaya tyaga na peremennom toke, avtomatizirovanny elektroprirod teleskopov, avtomaticheskoye regulirovaniye i pribory (Collection of Works on Problems in Electromechanics, No. 4: Electric Machines, Electric Drive, A-C Electric Traction, Automated Electric Drive of Telescopes, Automatic Regulation and Instruments) Moscow, 1960. 282 p. 5,500 copies printed.

Resp. Ed.: V. V. Sidel'nikov; Ed. of Publishing House: I. V. Suvorov; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: This collection of works is intended for specialists in electro-mechanics.

COVERAGE: The collection contains 28 works divided into three sections: 1) Electric Machines, 2) Electric Drive and Electric Traction; 3) Automated Electric Drive, and Automatic Regulation and Instruments. No personalities are mentioned. References accompany most of the articles.

~~Card 1/6~~

~~Card 2/6~~

ANEMPODISTOV, V.P. (Leningrad)

Approximation method for determining the optimum use of a hydrogen cooling system with direct action in the rotor windings of a turbo-generator. Izv. AN SSSR. Otd. tekhn. nauk. Energ. i avtom. no.3: 42-50 My-Je '62. (MIRA 15:6)

(Turbogenerators--Cooling)

KOSTENKO, Mikhail Poliyevktovich; PIOTROVSKIY, Lyudvik  
Marianovich; ANEMPODISTOV, V.P., nauchn. red.; ALEKSEYEVA,  
Ye.A., red.

[Electrical machines] Elektricheskie mashiny. Moskva,  
Energia. Pt.2. 1965. 703 p. (MIRA 18:11)

ANEMPODISTOV, V.P.

Experimental study of the operation of the gas intakes of turbo-  
generator rotors with a multijet direct cooling system. Sbor.rab.  
po vop.elektromekh.no.8, 276-288 '63.

(MIRA 16:5)

(Turbogenerators)



*AKADEMIYA DISTRVA, A A*

PHASE I BOOK EXPLOITATION

SOV/4706

Akademiya nauk SSSR. Institut elektromekhaniki

Sbornik rabot po voprosam elektromekhaniki, vyp. 4: Elektricheskiye mashiny, elektricheskiy privod, elektricheskaya tyaga na peremennom toke, avtomatizirovannyi elektroprivod teleskopov, avtomaticheskoye regulirovaniye i pribory (Collection of Works on Problems in Electromechanics, No. 4: Electric Machines, Electric Drive, A-C Electric Traction, Automated Electric Drive of Telescopes, Automatic Regulation and Instruments) Moscow, 1960. 282 p. 5,500 copies printed.

Resp. Ed.: V. V. Sidel'nikov; Ed. of Publishing House: I. V. Suvorov; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: This collection of works is intended for specialists in electro-mechanics.

COVERAGE: The collection contains 28 works divided into three sections: 1) Electric Machines, 2) Electric Drive and Electric Traction; 3) Automated Electric Drive, and Automatic Regulation and Instruments. No personalities are mentioned. References accompany most of the articles.

Card-1/6

SURDAN, C.; SARATEANU, D.; SORODOC, G.; FUHRER-ANAGNOSTE, B.; ANENCOV, E.,  
assistant tehnic

Isolation of a virus of the pararickettsia group from the enzootic  
granulous vulvovaginitis in cattle. Studii cerc inframicrobiol  
Special issue-supplement to 12:373-379 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al  
Comitetului de redactie, "Studii si cercetari de inframicrobiologie"  
(for Sarateanu).

(VIRUSES)      (RICKETTSIAL DISEASES)  
(VAGINITIS IN CATTLE)

SARATEANU, D.; NASTAC, E.; FUHRER-ANAGNOSTE, B.; SORODOC, G.; SURDAN, C.;  
LISSIEVICI-OPRESCU, E.; SUTEU, V., asistent tehnic; ANENCOV, L.,  
asistent tehnic

Incidence rate of ornithotic antibodies in men working in the zootechnical field. Studii cerc inframicrobiol Special issue-supplement to 12:365-371 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al Comitetului de redactie, "Studii si cercetari de inframicrobiologie" (for Sarateam).

(ANTIGENS AND ANTIBODIES) (ORNITHOSIS)  
(OCCUPATIONAL DISEASES)

dogs were subjected to daily irradiation of 20 r each, total dose 220-760 r. The lethal dose for dogs was 800 r, and for cats 1000-1200 r. The death of males took

USSR/Human and Animal Physiology (Normal and Pathological)  
Metabolism, Water and Salt Exchanges.

T-2

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50537

Author : Anenkov, B.N.

Inst : -

Title : Utilization of Radioactive Ca<sup>45</sup> Isotopes for Studying  
Calcium Metabolism in the Organism.

Orig Pub : Zhivotnovodstvo, 1956, No 8, 54-60

Abstract : A review. Data are presented which were obtained from literature and some test are described which were performed by the author with respect to a Ca<sup>45</sup> discharge in acidosis of rabbits, caused by the introduction of NH<sub>4</sub>Cl and followed by an internal administration of CaCO<sub>3</sub> in order to balance the acidic-alkaline equilibrium.

Card 1/1

ANUCHKIN, M.P., kand. tekhn. nauk; ANENKOV, N.I., inzh.; SHAKHOVSKAYA, G.V.,  
inzh.

Welded pipe strength in main trunk gas line. Svar. proizv. no.2:  
21-22 F '59. (MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.  
(Pipe, Steel--Welding) (Welding--Testing)  
(Gas, Natural--Pipelines)

ANUCHKIN, M.P., kand.tekhn.nauk; ANENKOV, N.I., inzh.

Effect of cuts and hollows on the bearing capacity of pipe.  
Stroi.truboprov. 6 no.11:6-9 N '61. (MIRA 15:4)  
(Pipelines---Testing)

1 6999-65 ENP(m)/ENP(k)/ENP(a)/ENP(l) PR-4 ARDC(b) MM/JD/DM/EM  
s/0095/64/000/009/0003/0006

ACCESSION NR: AP045826

AUTHORS: Anan'kov, N. I.; Anuchkin, M. P.

TITLE: Pipes for gas lines laid in the Far North

B

SOURCE: Stroitel'stvo truboprovodov, no. 9, 1964, 3-6

TOPIC TAGS: pipeline; steel pipeline; low temperature metal/ 09025 (M) steel

ABSTRACT: The authors conducted tests at +20C and at -70C to determine the mechanical and structural properties of 09025 (M) steel as used in fuel pipelines. Forty pipes were tested, including eight which were tested hydraulically to destruction. Mechanical testing established that the strength limit of the basic metal is 50-52 kg/mm<sup>2</sup>; the flow limit is 35-40 kg/mm<sup>2</sup>; and the relative lengthening is 28-34%. Destructive testing of welded joints showed their strength to be on a par with the parent material. The material showed that the impact viscosity decreases slightly with decreasing temperature. Testing the impact viscosity along seams and near seams revealed values greater than 5.8 kg\*cm/cm<sup>2</sup> for all cases except one. Additional measurements were made to determine the circumferential distortion and static deflection characteristics, as well as resistance to crack formation and propagation. Special attention was given to feasibility problems of welding and assembly at temperatures as low as -50C. Results are plotted and tabulated to show comparative

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ACCESSION NR: AP4045826

values for extremes of temperature. The condition of walls, seams, and welds under destructive pressure testing is discussed. The authors recommended the pipe for use as fuel lines in regions with temperatures as low as -700. Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: VMLIST

SUBMITTED: 00

ENCL: 00

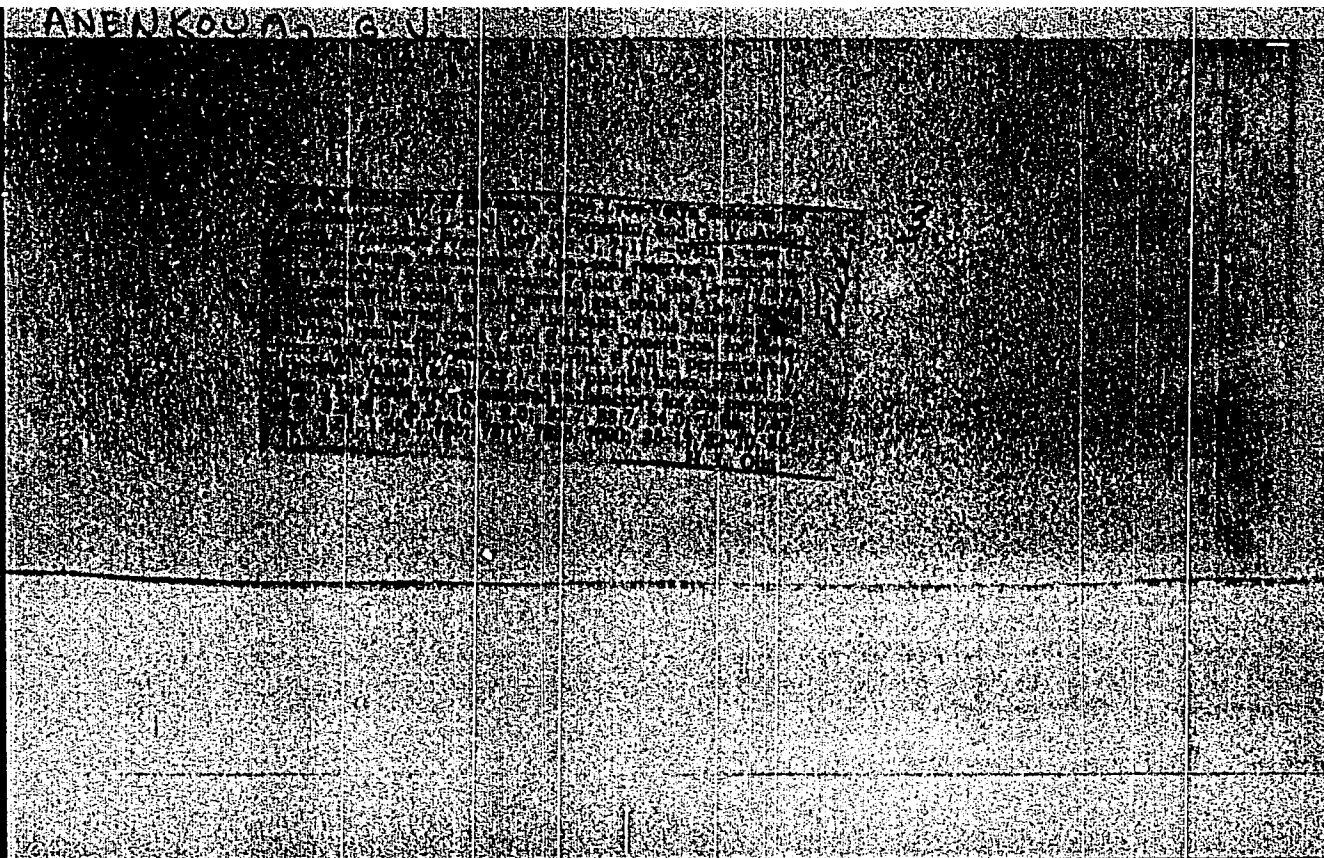
SUB CODE: PM

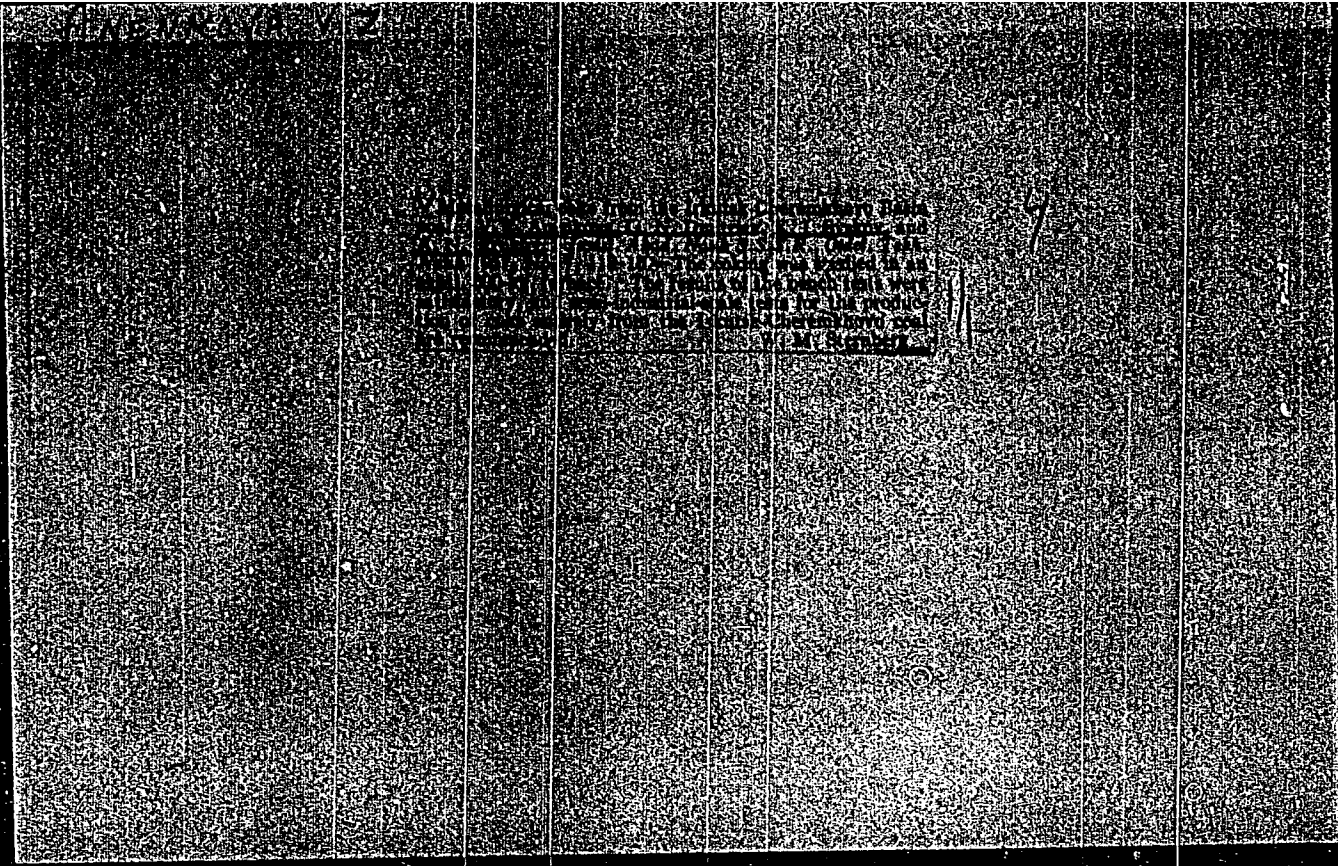
NO REF SOV: 000

OTHER: 000

Card 2/2







BEZPRICHANNYY, N.K.; ANEN'IEV, V.A.

Pathological anatomy of the incubation period of feline hepatitis.  
Report No.1: Histopathology of the mesenteric lymphatic nodes in  
peroral infection of dogs by the virus of infectious hepatitis of  
dogs. Vop.med.virus, no.9:318-328 '64.

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ANERT, EDUARD EDUARDOVICH

Bogatstva Nedr Dal'nego Vostoka. Khabarovsk-Vladivostok, "Knizhnoye Delo", 1928.  
932 p. maps, tables.  
Summary in English  
Bibliography: p. 867-898.

SURPAT, Gh., candidat in stiinta economice; ANESCU, V.; TUTUI, Gh.

Antinational and exploiting character of the Rumanian Monarchy.  
Probleme econ 15 no.12:182-197 D '62.

ANESCU, V.

The Rumanian People's economic effort during the anti-Hitler War. Probleme econ 17 no. 6:27-35 Je '64.

ANESH, I.F., inzh. KURAKIN, A.G., tekhnik

Power takeoff from 35 kv. lines for the power supply of repair  
stations. Energetik no.9:29-30 S '64. (MIRA 17:10)

ABEZH, I.P., Inzh. (g. Orenburg); KURAKIN, N.S., Inzh. (g. Orenburg)

Assembling of a composite 35/10 kv. transformer substation.  
Energetik 13 no.8:19-20 Ag '65. (MIRA 18:9)



1955, 1.

Tasks in the field of heat power economy. p. 159. (FARNAR (1955) 1955, Budapest, Hungary), Vol. 9, No. 8, Aug. 1955.

50: Monthly List of East European Accessions, (SEAL), 1955, Vol. 4, No. 5, May 1955.

ANESINI, Andor, okleveles gépészmérnök

Conference on Industrial Power Economy. Ipari energia 1 no.1/4:3-4  
Jl-0 '60.

1. Energiagazdalkodási Tudományos Egyesület Ipari Energia-  
gazdalkodási Szakosztály vezetője; "Ipari Energiagazdalkodás"  
felelős szerkesztője.

ANESINI, Andor

Problems of economic mechanism. Mosa elet 19 no.26:2 17 D '64.

1. Member, Presidium, Scientific Association of Power  
Economy, Budapest.

GOLIGORSKIY, S.D.; ANESTIADE, N.Kh.; KUKIN, N.N., profesor, direktor.

Empyema of the stump of the ureter. Klin.med. 31 no.3:87 Mr '53.  
(MLRA 6:5)

1. Fakul'tetskaya khirurgicheskaya klinika Kishinevskogo meditsinskogo in-  
stituta na baze Respublikanskoy klinicheskoy bol'nitsy.  
(Ureters--Diseases) (Empyema)

ANESTIADI, H. KH., PHYSICIAN

Dissertation: "On the question of Increasing the Time Length of the Pain Relieving Action of Novocain." Cand Med Sci, Kishinev State Medical Inst, 11 Apr 50. (Sovetskaya Moldaviya, Kishinev, 10 Apr 50)

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GLADYREVSKIY, N.L.; ANESTIADI, N.Kh.

Traumatism and traumatological assistance in the Moldavian S.S.R.  
Zdravookhranenie 2 no.6:3-7 N-D ' 59. (MIRA 13:6)

1. Iz kafedry obshchey khirurgii (zav. - prof. N.L. Gladyshevskiy)  
Kishinevskogo meditsinskogo instituta.  
(MOLDAVIA--WOUNDS AND INJURIES)

ANESTIADI, N.Kh.; SHAPIRO, Sh.D.

Extraperitoneal fistulo-jejunal anastomosis. Zdravookhranenie  
3 no.3:61 My-Je '60. (MIRA 13:7)

1. Iz kliniki obshchey khirurgii (zav. - prof. N.L. Gladyshev-  
skiy) i Respublikanskoy bol'nitsy (glavnyy vrach - T.V. Moshnyaga).  
(INTESTINES---SURGERY)

ANESTIADI, N. Kh., SHULYAK, L. P., APTEKAREVA, A. M., GORBUSHINA, Z. Ye.

"On the Work of the 27th All-Union Congress of Surgeons"

report submitted at the Society of Surgeons of the Moldavian SSSR, 1960

So: Zdravookhraneniye, Kishinev, No. 2, March-April 1961, pages 61-64



ANESTIADI, N.Kh., dotsent

Work of the Surgical Society of the Moldavian S.S.R. in 1960.  
Zdravookhranenie 4 no. 2:61 My-Ap '61. (MIRA 14:4)

1. Predsedatel' pravleniya Obshchestva khirurgov Moldavskoy SSR.  
(MOLDAVIA--SURGICAL SOCIETIES)

ANESTIADI, N.Kh.

Mortality following accidents as revealed by materials from departments of surgery in the Moldavian S.S.R. Zdravookhranenie 4 no. 2:17-19 My-Ap '61. (MIRA 14:4)

1. Glavnyy khirurg Ministerstva zdravookhraneniya Moldavskoy SSR. (MOLDAVIA--ACCIDENTS) (MORTALITY)

ANESTIYADI, N.Kh., dotsent (Kishinev); NEGRESKU, V.Ya. (Kishinev)

"Tetanus and its prevention" by I.R.Drobinskii. Reviewed by  
N.Kh.Anestiadi and V.IA.Negresku. Zdravookhranenie 4 no.5:  
61-62 S-0 '61. (MIRA 14:11)  
(TETANUS) (DROBINSKII, I.R.)

ANESTIYADI, N.Kh.

Acute intestinal obstruction. Zdravookhranenie 5 no.1:11-14 Ja-F '62.  
(MIRA 15:4)

1. Iz kafedry fakul'tetskoy khirurgii (zav. dotsent N.Kh.Anestiyadi)  
Kishinevskogo meditsinskogo instituta.  
(INTESTINES--OBSTRUCTIONS)

ANESTIYADI, N.Kh.

Some problems in the work of the surgical hospitals of the Moldavian  
S.S.R. Zdravookhranenie 5 no.1:3-6 Ja-F '62. (MIRA 15:4)

1. Glavnyy khirurg Ministerstva zdavookhraneniya Moldavskoy SSR.  
(MOLDAVIA--SURGERY)

ANESTIADI, V. Kh.

"Morphological Changes in the Peripheral Part of the Somatic Nervous System in Primary Tuberculosis." Cand Med Sci, Chair of Pathoanatomy, Kishinev State Medical Inst, Kishinev, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

USSR / Morphology of Man and Animals. Nervous System.

S-1

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 21680

Author : Anestiadi, V. Kh.

Inst : Not given

Title : Morphologic Changes in Peripheral Somatic Nervous System  
in Primary Tuberculosis.

Orig Pub : Tr. Kishinevsk. gos. med. in-ta, 1956, 5, 93-98.

Abstract : In acute miliary tuberculosis there were swelling, chromo-  
tolysis, hydrops and necrosis of neurons in spinal ganglia,  
especially pronounced in the case of caseous pneumonia with  
involvement of lymph nodes and the intestines. There were  
swelling and an increase in argyrophilia in axons and changes  
in the myelin sheath in the brachial and lumbar plexuses, the  
median, the femoral and the sciatic nerves, as well as defor-  
mation and atrophy of muscle fibers. Inflammatory changes

Card 1/2

ANESTIADI, V.Kh., kand.med.nauk

Morphological changes in the peripheral nervous system in  
experimental tuberculosis and after use of BCG vaccine.  
Probl.tub. 36 no.7:99-103 '58. (MIRA 12:8)

1. Iz kafedry patologicheskoy anatomii (zav. - prof.D.I.  
Golovin) Kishinevskogo meditsinskogo instituta (dir. - prof.  
N.T.Starostenko).  
(TUBERCULOSIS) (NERVOUS SYSTEM--DISEASES) (BCG VACCINATION)



ANESTIADI, V.Kh.

Fluorescent and histochemical characteristics of skin cancer.  
Zdravoodranenie 2 no.3:26-28 My-Je '59. (MIRA 12:10)

1. Iz kafedry patologicheskoy anatomii (zav. - kand.med.nauk  
V.Kh.Anestiadi) Kishinevskogo meditsinskogo instituta.  
(SKIN--CANCER) (FLUORESCENCE MICROSCOPY)

ANESTIADI, V.Kh.

Pathological anatomy of dermatomyositis. Zdravookhranenie 2 no.5:  
48-51 S-O '59. (MIRA 13:4)

1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy - kand.med.  
nauk V.Kh. Anestiadi) Kishinevskogo meditsinskogo instituta.  
(MUSCLES--DISEASES)

ANESTIADI, V. Kh.

Skin cancer in the light of luminescence and histochemical studies. Neoplasma, Bratisl. 6 no.4:404-408 1959.  
(SKIN neopl.)

ANESTIADI, V.Kh.

PLANS I BOOK EXHIBITION 509/1973

Sovetskoye po lyuchevoye fizike, Feb. 1973

Metody lyuchevoye fiziki: Materialy sovetskoye (Methods for  
X-ray Analysis: Materials of the 5th Conference) Minsk, 1970  
in book, 1970. 147 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Belorusskoy SSR, Institut fiziki.

General Ed.: E. A. Borisovich; Ed.: L. Timofeyev; Tech. Ed.:  
B. Siderov.

NOTES: This collection of articles is intended for chemists and phys-  
icists interested in molecular luminescence, and for scientists per-  
sonnel concerned with applications of this and related phenomena in  
research in the life sciences.

CONTENTS: The collection contains 26 papers read at the Fifth Con-  
ference on Luminescence, which took place 19-20 October 1970 (since  
of conference not given). These articles are devoted primarily  
with the development of new luminescence methods for qualitative  
and qualitative chemical analysis, and with the applications of lumi-  
nescence in medical and biological research. They discuss lumina-  
escence methods for the determination of uranium, mercury, selenium,  
aluminum, boron, and other elements as well as luminescence analysis  
for the diagnosis of cancer and the detection of early virus in-  
fection. The luminescence analysis is described. The conference  
papers concerned with studies on the photochemistry of organic  
compounds. There is a discussion of the contribution of optical  
spectroscopy to luminescence in the course of polymerization. All  
specialists in molecular luminescence in the course of luminescence  
(p. 15) and of V. V. Pavlovskiy (p. 17) have presented a number  
of their importance. No personalities are mentioned. References  
are given only for the articles.

Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov.

Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov. "Izvestiya Akademiya Nauk Belorusskoy SSR, Institut  
fiziki, Minsk, 1970. 147 p. 1,000 copies printed."

Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov. "Izvestiya Akademiya Nauk Belorusskoy SSR, Institut  
fiziki, Minsk, 1970. 147 p. 1,000 copies printed."

Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov. "Izvestiya Akademiya Nauk Belorusskoy SSR, Institut  
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Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov. "Izvestiya Akademiya Nauk Belorusskoy SSR, Institut  
fiziki, Minsk, 1970. 147 p. 1,000 copies printed."

Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov. "Izvestiya Akademiya Nauk Belorusskoy SSR, Institut  
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Author: V. K. Anestiadi; Editor: L. Timofeyev; Tech. Ed.:  
B. Siderov. "Izvestiya Akademiya Nauk Belorusskoy SSR, Institut  
fiziki, Minsk, 1970. 147 p. 1,000 copies printed."

Card 8/10

ANESTIADI, V.Kh.

Use of fluorescence microscopy in the diagnosis of skin cancer.  
Trudy Kish.gos.med.inst. 13:41-45 '60. (MIRA 16:2)

1. Kafedra patologicheskoy anatomii Kishinevskogo gosudarstvennogo  
meditsinskogo instituta.  
(FLUORESCENCE MICROSCOPY) (SKIN—CANCER)

ANESTIADI, V.Kh.

Changes in arterial and aortal walls at the earliest stages of  
arteriosclerosis. Zdravookhranenie 4 no.6:26-30 N-D '61. (MIRA 15:2)

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent V.Kh.  
Anestiadi) Kishinevskogo meditsinskogo instituta.  
(ARTERIES\_\_DISEASES) (AORTA\_\_DISEASES)  
(ARTERIOSCLEROSIS)

ANESTIADI, V. Kh. (Kishinev)

Method for luminescent analysis of atherosclerosis. Arkh. pat.  
no.2:33-37 '62. (MIRA 15:2)

1. Iz kafedry patologicheskoy anatomii (zav. -- dotsent V. Kh.  
Anestiadi) Kishinevskogo meditsinskogo instituta.

(ARTERIOSCLEROSIS) (LUMINESCENCE)

ANESTIADI, V.Kh.

Luminescent macroscopic characteristics of the aorta and arteries in the early stages of atherosclerosis. Zdravookhranenie 5 no.4:32-35 (MIRA 15:9)  
Jl-Ag '62.

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent V.Kh. Anestiadi) Kishinevskogo meditsinskogo instituta.  
(ARTERIOSCEROSIS) (AORTA) (ARTERIES) (LUMINESCENCE)



ANESTIADI, V.Kh. (Kishinev)

Aortic and arterial changes in the early stages of atherosclerosis. Arkh.pat. no.7:26-29 '62. (MIRA 15:9)

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent V.Kh. Anestiadi) Kishinevskogo gosudarstvennogo meditsinskogo instituta.

(ARTERIOSCLEROSIS)

(AORTA)

ANESTIADI, V.Kh.

Atherosclerosis in the light of autoradiolabel fluorescence and  
histochemical analysis. Trudy Inst. Khim. i Eksp. Kard. AN  
Gruz. SSR 8:141-146 '62. (MIRA 1982)

1. Iz kafedry patologicheskoy anatomii meditsinskogo  
instituta, Kishinev.

ANESTIADI, V.Kh.

Primary atherosclerosis of the aorta and arteries. Trudy inst. eksp.  
morf. AN Gruz. SSR 11:61-64 '63. (MIRA 17:11)

1. Kafedra patologicheskoy anatomii Kishinevskogo gosudarstvennogo  
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ANESTIADI, V.Kh., dotsent; YAKOVLEVA, L.A., dotsent

Work of the Moldavian Republic Scientific Society of Patho-  
anatomists during 1961-1962. Arkh. pat. 25 no.10.76 '63.

(MIRA 17:7)

1. Predsedatel' Moldavskogo Respublikanskogo Nauchnogo obshchestva  
patologoanatomov (for Anestiadi). 2. Sekretar' Moldavskogo Respub-  
likanskogo Nauchnogo obshchestva patoanatomov (for Yakovleva).

[BULGARIA

Dr. ANTON [Affiliation not given]

"Methodologic Premises of Electrophysiologic Studies in Neurophysiology, Neurology and Psychiatry."

Sofia, Neurologiya i Psihiatriya, Vol 2, No 1, 1963; pp 19-23.

Abstract [English summary modified]: Criticisms of some Western (e.g. Penfield, Jasper) and Eastern (unnamed) scientists who fail to approach properly the electromyographic methods of study. These methods are valuable, but should not be used without proper consideration of clinical aspects. Three Soviet, 14 Bulgarian (several published in Western journals) references.

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ANN, G.; CHLEN, F.

Electric Power as a Participant in the net cost of coal. p. 18  
Minn Dele Vol. 13, No. 3, May/June 1958, Sofia, Bulgaria.

Monthly Index of East European Accessions (MIEA) IC, Vol. 7, No. 10,  
Oct. 58

DANAÏLOV, D., dots, inzh.; ~~ANEV, G.~~, inzh.; MENTESHV, M., inzh.; MATEV,  
M., inzh.; KOVACHEV, V., inzh.

Load of mine power transformers. Min delo 17 no.4:6-8 Ap '62.

1. Minno-geolozhki institut.

DANAILOV, D., dots. inzh.; ANEV, G., inzh.; MATEEV, M., inzh.; KOVACHEV,  
V., inzh.

Study of the loads in electric motors and transformers, and  
analysis of electric-power indexes in coal mines. Godishnik  
Min geol inst 8:175-193 '61-'62 [publ. '63].



BAKALOV, D., et al. BULG.; ANOV, G., et al. BULG.; BAKALOV, D., et al. BULG.; KOVACHOV, V., et al. BULG.; BAKALOV, D., et al. BULG.

Studies on the fields of interaction of low-frequency and analysis of energy indicators in the field of dark matter must be 9-8-73  
(1-10) [11. 10].

ANEV, G.; MENTESHEV, M.

Certain problems of supplying mines with electric power in Bulgaria.  
Archiw gorn 9 no.2:215-224 '64.

Certain problems of stationary lighting in mines. Ibid.:225-232

ANEV, G., inzh.

A device for selecting ferrite rings. Mas. inostroene 13 no. 11  
33-35 N '64.

1. Institute of Mining Geology, Sofia.

ANEV, G.A., inzh.

Fixed lighting of coal mines in the People's Republic of  
Bulgaria. Ugol' 39 no.5:69-71 My '64. (MIRA 17:8)

1. Gornogeologicheskly institut, Sofiya.

ANEV, Georgi, inzh.

A device for remote control of which points a ...  
in mining enterprises. Tekhnika Bulg 13 no.10:9-11 '64.

1. Institute of Mining Geology, Sofia.

ANOV, K.

"Adjustment of the locomotives and tenders."

TRANSPORTNO DELO., Sofia, Bulgaria., Vol. 11, No. 1, 1957

Monthly list of EAST EUROPEAN ACQUISITIONS (DEAI), IC, Vol. 8, No. 7, July 1958, Unclas

ANEYAN, Kh.S.; KANAYAN, V.Z.

Experiment in the use of magnolite abrasive discs for cutting marble slabs.  
Biul.stroi.tekh. 10 no.12:18 J1 '53. (MLRA 6:8)

1. Zavod stroitel'nykh materialov Ministerstva Promyshlennosti Stroitel'-  
nykh Materialov Armyanskoy SSR. (Stonecutters)

IVANOV, Konstantin Vladimirovich; ANEYCHIK, A.P., red.; AKALOVICH, N.M.,  
red.; MORGUNOVA, G.M., tekhn. red.

[Technological and hydraulic calculations in water-supply  
systems] Tekhnologicheskie i gidravlicheskie raschety po vo-  
dosnabzheniiu. Minsk, Izd-vo M-va vysshego sredn. spets. i  
profes. obrazovaniia BSSR. Pt.1. [Water-supply network and its  
structures] Vodoprovodnaia set' i sooruzheniia na seti. 1963.  
300 p. (MIRA 16:11)  
(Water supply engineering)



CA ANFEROVA, L. V.

Annual cycles of the mineralization of the natural brines of Lake Karachi. V. V. Epshtein and L. V. Anferova. Doklady Akad. Nauk S.S.S.R. 72, 65-8 (1980). A report on the annual cycles of mineralization in Lake Karachi based on a study of the lake for 12 yrs. Three diagrams showing the cycles are provided. The salts considered are Na<sub>2</sub>SO<sub>4</sub>, MgCl<sub>2</sub>, and NaCl. Gladys S. Macy

EPSHTEIN, V.V.; ANFEROVA, L.V.

Diffusion interrelations between the saline waters and silt deposits of  
Lake Karachi. Doklady Akad. Nauk S.S.S.R. 85, 1349-52 '52. (MIRA 5:9)  
(CA 47 no.21:10917 '53)

PETROV, Ye.M.; ANFEROVA, V.N.

Food resources for wild bees of the Fribal'skiy region. Trudy Bash.  
gen.zap. no.2:61-84 '63. (MIRA 18:5)

ANFEROVA, Ye. A.

Modification of the technique in staining of frozen histotopographic sections. Arkh. pat., Moskva 12 no.5:91 Sept.Oct 1950.

(CLML 20:1)

1. Of the Pathomorphological Division, Institute for Tuberculosis of the Academy of Medical Sciences USSR, Moscow.

A. NEERT'YEVA, Ye. A.

Amer'tova, Ye. A. On the representation of certain special Dirichlet series by definite integrals. Izvestiya Akad. Nauk SSSR Ser. Mat. 12:74-76 (1948). (Russian)

The author studies the functions  $\psi(s) = \Gamma(s+\rho)\Gamma(s-\rho)$ , where  $\Gamma(s)$  is the Riemann zeta function. Generalizations are obtained of results which are well known for  $\zeta(s)$  [C. L. Siegel, *Abhandl. u. Studien z. Geschichte der Math.* 2: 45-80 (1932)]. The author proves three formulas involving  $\psi(s)$ . Two of these (which are typical) are as follows: (1) Let

$$a(s) = \sum_{n=1}^{\infty} a_n n^{-s} \quad (s > 0, -1 < \rho < 1)$$

$$\psi(s) = \sum_{n=1}^{\infty} a_n K_0(2\pi n x)$$

$$\psi(s) = \Gamma(s+\rho)\Gamma(s-\rho) \int_0^1 x^{s-1} \psi(x) dx$$

$$\psi(s) = \Gamma(s+\rho)$$

Source: Mathematical Reviews, 1/2 Vol 9 No. 10

Then

$$\psi(s) = \frac{x}{\sin \pi r} \left[ \frac{\Gamma(2r)x^{-r}(1-2r)}{\Gamma(1-r)} ((s+\rho)^2 + \rho) + \frac{\Gamma(-2r)x(1+2r)}{\Gamma(1+r)} ((s-\rho)^2 + \rho) + 8((s-\rho)^2 + \rho)((s+\rho)^2 + \rho) \right] \times \int_0^{\infty} x^{-s} \psi(x) \cos(1/x) dx$$

(2) Let  $u = \pi i t, v = \pi i t$

$$N(2\pi i t, 2\pi i v) = 2\pi i K_{s-1}(2\pi i t) J_s(2\pi i v) - 2\pi i K_{s+1}(2\pi i t) K_s(2\pi i v)$$

and

$$\psi(s, x) = \frac{1}{2\pi i} \left[ \frac{\Gamma(s)\Gamma(2s)}{x^{2s}} J_{1-s}(2\pi i x) - \frac{\Gamma(-s)\Gamma(-2s)}{x^{-2s}} J_{1-s}(2\pi i x) + 2\pi i \sum_{n=1}^{\infty} a_n(n) \frac{N(2\pi i t, 2\pi i v)}{x^{2s-n}} \right]$$

Then

$$\Gamma(\frac{1}{2}(s+v))\Gamma(\frac{1}{2}(s-v))\Gamma(s) = \Gamma(\frac{1}{2}(s+v))\Gamma(\frac{1}{2}(s-v))\Gamma(s)$$

$$\times \int_0^{\infty} u(t, x) x^{-s} dx + \Gamma(\frac{1}{2}(1-s+v))\Gamma(\frac{1}{2}(1-s-v))\Gamma(s-1)$$

$$\times \int_0^{\infty} u(t, x) x^{-s} dx$$

where the last two integrals are taken along the path  $x = (y-it)^{1/2} t$  (for some fixed  $t$ ,  $0 < t < 2^{-1}$ ), with  $y$  going from  $\infty$  to  $-\infty$ . The third formula is even more complicated and we omit it here.

The paper is marred by a tremendous number of misprints which render portions of it almost unreadable. Also, the author seems to have overlooked a previous paper on the same question in which many of the results were given [N. Koshliakov, C. R. (Doklady) Acad. Sci. URSS, 2, 342-345 (1934)].  
H. V. Shapiro (New York, N. Y.)

Source: Mathematical Reviews, 2/2 Vol 9, No 10

EAA

АНФЕРТ Ye. A. Ye. A.

Анферт, Е. А. On the transformation formulas of Vinogradov. *Doklady Akad. Nauk SSSR (N.S.)* 50, 54 (1948) (Russian)

In this paper the author obtains the following approximate transformation formulas:

$$(I) S(x) = \sum_{n \leq x} \chi(n) f(n) + O(x^{-1/2})$$

$$= A |x|^{-1/2} \sum_{n \leq x} \frac{1}{n^{1/2}} \chi(n) + O(x^{-1/2})$$

$$\times \exp[-\pi i (x-1/2) / (2\pi N_0(x-1))] + O(\ln^2 |x|/N)$$

$$(II) T(x) = \sum_{n \leq x} \chi(n) g(n) + O(x^{-1/2})$$

$$= B |x|^{-1/2} \sum_{n \leq x} \frac{1}{n^{1/2}} \chi(n) + O(x^{-1/2})$$

$$\times \exp[-\pi i (x-1/2) / (2\pi N_0(x-1))] + O(\ln^2 |x|/N)$$

Source: *Mathematical Reviews* Vol 10, No. 1

where  $\chi = (N-1+3\pi i)^{1/2}$ ,  $m \geq 2$ ,  $2\pi |a| N^2 \leq A, B$  are constants, and  $r(n)$  denotes the number of divisors of  $n$ . The proof of (I) is sketched and consists roughly of first representing  $S(x)$  as

$$S(x) = \frac{1}{2\pi m i} \int_{c-i\infty}^{c+i\infty} \Gamma(s) \chi(s) x^s ds$$

then shifting the path of integration to the line  $c=1$  and expressing  $\Gamma(s)$  in terms of  $\Gamma(1-s)$  by using the well known functional equation for the Riemann zeta function  $\zeta(s)$ . This, together with standard estimates for  $\Gamma(1-s)$ ,  $\Gamma(N/m)$ , and  $\sin(\pi s)$ , leads to (I). It is asserted then that (II) follows in an analogous way if  $\Gamma(s)$  is used instead of  $\Gamma(1-s)$ . H. N. Shapiro (New York, N. Y.)

ANFERTBEVA, E. A.

25331 ANFERTBEVA, E. A. O Nekotorykh v analiticheskoy teorii chisel. Uchen  
zapiski (Leningr. Gos. Ped in-t im Gertsena), t. LXIV, 1955, s. 103-12

SC: Letopis' Zhurnal Statey, No. 30, Moscow, 1954



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Anfertiyeva, Ye. A. Summation formulas containing special  
 numerical functions. Mat. Sbornik N.S. 27(69), 69-84  
 (1950). (Russian)  
 Various summation formulas are obtained by utilizing  
 the functional equation for  $\psi(z) = \Gamma'(z) + \gamma$  (obtained  
 from that of the  $\zeta$ -function). The method used is that given  
 by Ferrar [Compositio Math. 4, 394-403 (1937)] for obtain-  
 ing such summation formulae from a rather general class  
 of functions possessing a functional equation.  
 H. N. Shapiro (New York, N. Y.)

Source: Mathematical Reviews

Vol. 12 No. 1 5

16(1)

AUTHOR: Anfert'yeva, Ye.A.

SOV/140-59-3-2/22

TITLE: On an Identity of Chowla-Seiberg

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 3, pp 13-21 (USSR)

ABSTRACT: Let  $\zeta_Q(s)$  be the Epstein's zeta function of the quadratic form  $Q(x,y) = ax^2 + bxy + cy^2$ ;  $\Delta$  be the absolute value of the discriminant of  $Q(x,y)$ ;  $s$  be a complex number;  $\sigma_{1-2s}(n) = \sum_{d|n} d^{1-2s}$ . The author proves the identity

$$\frac{1}{2} \zeta_Q(s) = a^{-s} \zeta(2s) + \zeta(2s-1) \cdot \frac{2^{2s-1} a^{s-1} \sqrt{\Delta} \Gamma(s-\frac{1}{2})}{\Delta^{s-\frac{1}{2}} \Gamma(s)} +$$

$$+ \sum_{n=1}^{\infty} \sigma_{1-2s}(n) \frac{2^{s+\frac{1}{2}} n^{s-\frac{1}{2}} \pi \cos \frac{\pi nb}{a}}{a^{\frac{1}{2}} \Gamma(s) (\sqrt{\Delta})^{s-\frac{1}{2}}} \int_0^{\infty} v^{s-\frac{3}{2}} \exp \frac{-\pi n \sqrt{\Delta}}{2a} (v + \frac{1}{v}) dv.$$

Card 1/2

On an Identity of Chowla-Selberg

SOV/140-59-3-2/22

This identity without proof is already published by S. Chowla,  
and A. Selberg [Ref 1].  
There are 4 references, 1 of which is Soviet, 1 American, and  
2 English.

ASSOCIATION: Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina  
(Leningrad Polytechnical Institute imeni M.I. Kalinin)

SUBMITTED: February 3, 1958

Card 2/2

S/043/60/000/13/08/016  
C111/C222AUTHOR: Anfert'yeva, Ye. A.

TITLE: Integral Analogous to the Classical Legendre's Integral

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki,  
mekhaniki i astronomii, 1960, No. 13, pp. 76 - 80TEXT: Let (compare the author (Ref. 1,2))  $\varphi_\nu(s) = \zeta(s+\nu)\zeta(s-\nu)$ ,

$$\sigma_\nu(x) = \frac{1}{2\pi i} \int_{\frac{3}{2} - \infty i}^{\frac{3}{2} + \infty i} \frac{\varphi_\nu(1-\sigma)}{2 \cos \frac{\pi}{2} (s+\nu)} \cdot \frac{d\sigma}{x^\sigma}$$

The author proves the relation

Card 1/2

✓B