

LAPINSKAYA, T.A.; CHARYGIN, A.M.

New data on the petrography of the crystal basement in the Volga Valley portion of Volgograd Province. Trudy MINKHIGP no.43: 246-260 '63. (MIRL 17:4)

LAPINSKAYA, T.A.; BOGDANOVA, S.V.; ZHURAVLEV, Ye.G.

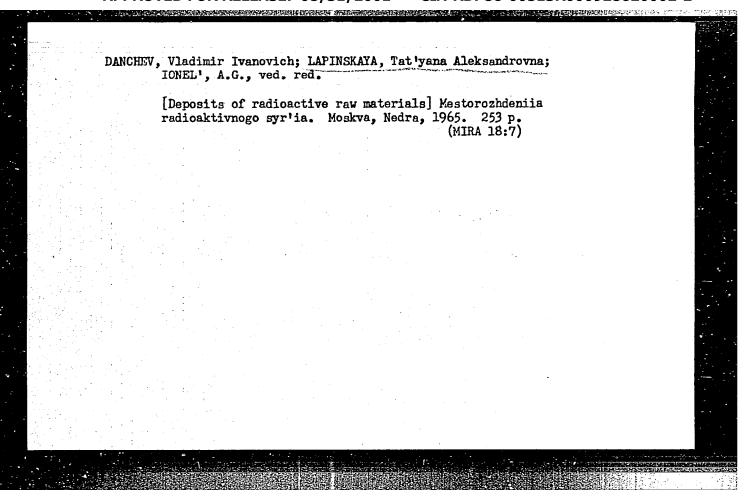
Petrography and tectonic features of the crystal basement in the Volga-Ural oil- and gas-bearing region. Trudy MINKHiGP no.43: 280-297 '63. (MIRA 17:4)

MIKHAYLOVA, Nelli Aleksandrovna; LAPTRSKAYA, T.A., otv. red.

[Characteristics of the quartz of a Devonian terrigenous formation and its possible cource material] Kharakteristika kvartsa terrigennoi tolshchi levona i vozmozhnykh istochnikov ego snosa. Moskva, Tzd-vo "Nauka," 1964. 69 p. (MIRA 17:8)

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LAPINSKAYA, T.A.; KUZNETSOV, V.G.

Correlation of the zone of the Kama-Kinel' depression with the tectonics of the crystalline basement. Dokl. AN SSSR 164 no.5:1125-1128 0 '65. (MIRA 18:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti. Submitted April 13, 1965.

\$/844/62/000/000/070/129 D204/D307

AUTHORS: Lapinskaya, Ya. M., Khenokh, M. A., Votinov, M. P., Yev-dokimov, V. F. and Antuf'yev, V. V.

The action of radiation of Co60 on solid hippuric acid

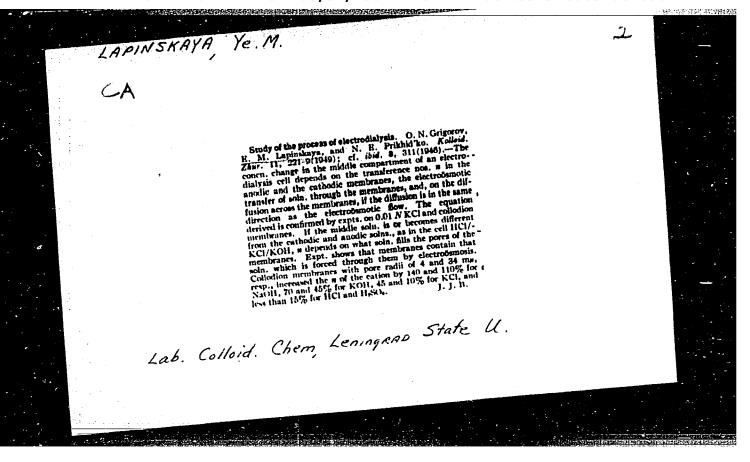
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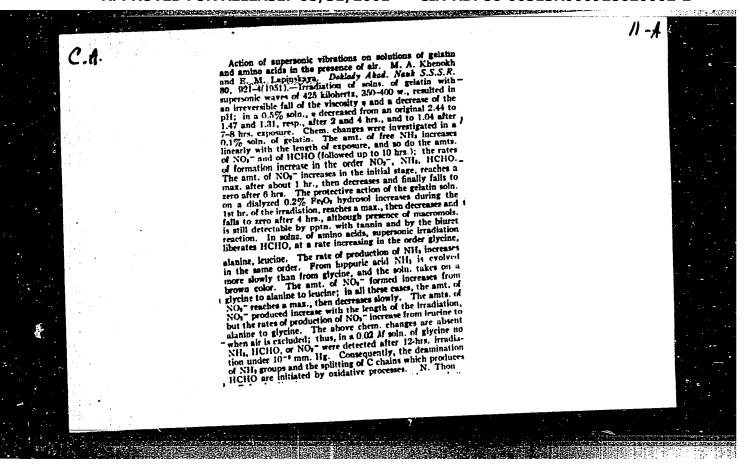
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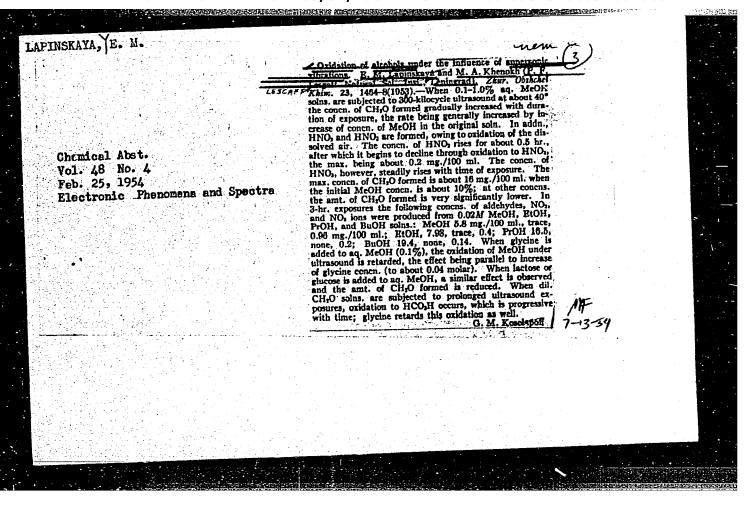
TEXT: The effects of fradiation on hippuric acid, benzoic acid, TEAT: The effects of fractation on hippuric acta, benzold acta, benzella acta, benzella acta, benzel and glycine were studied in the presence of air. rhound gave 1156 to PhCOO. only, and glycine was radiolyzed to NH3 and CH20, the extended to PhCOO. tent of decomposition increasing with increasing dose of irradiation. tent of decomposition increasing with increasing dose of irradiation Hippuric acid itself turned pink on exposure to 7 rays, but the co-lor disappeared on recrystallization or on heating to 1300c. The lor disa peared on recrystallization or on heating to 130°C. The irradiation physical properties of hippuric acid remained unchanged after irphysical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which corresponded to a physical properties of hippuric acid remained unchanged after irradiation. The EPR sepctrum showed 5 lines which correspond to a physical properties and two other protons. The irradiation is a physical properties of the irradiation of the irradiation irradi

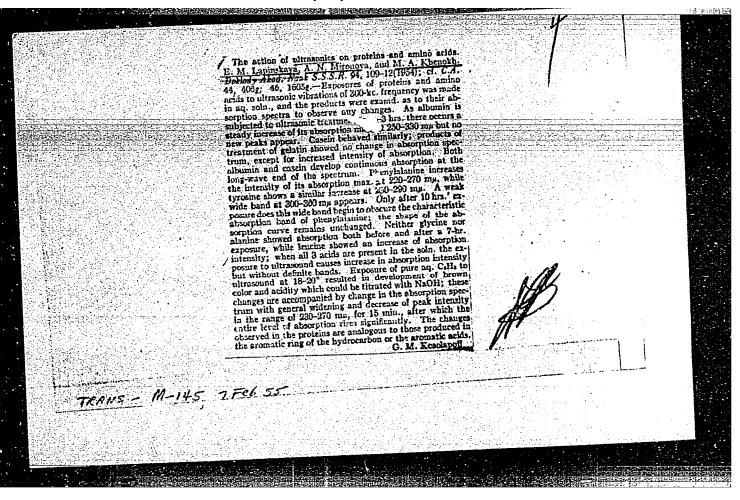
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LAPINSKAYA, YEM

USER/Chemistry - Biochemistry

Card 1/1

Pub. 22 - 37/54

Authors

Mhenokh, M. A., and Lapinskaya, Ye. M.

Title

Effect of beta-radiation of the radioactive p32 isotope on amino acids

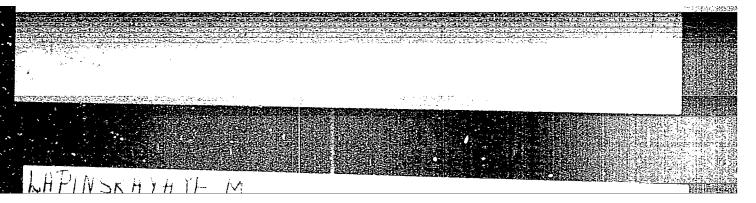
Periodical : Dok. AN SSSR 102/5, 993-996, Jun 11, 1955

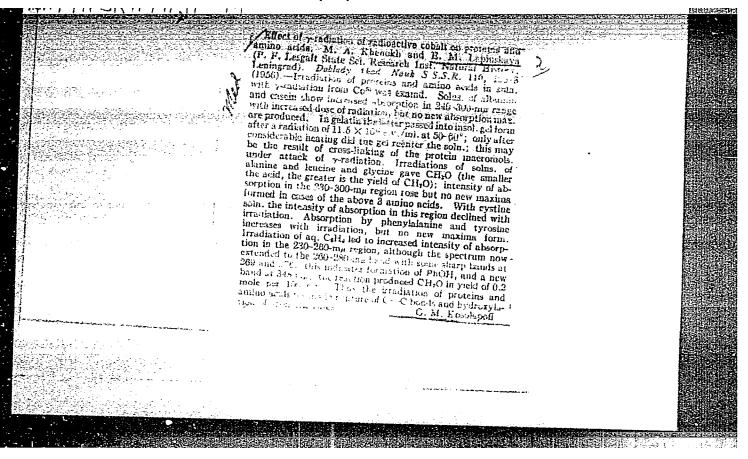
Abstract

Using a P32 compound in the form of a salt solution (Na2HPO4) as a source of beta-rays the authors investigated the direct effect of these rays on certain amino acids. Results indicate that the chemical processes oc-curring under the effect of P<sup>32</sup> radiation cause deamination of the NH2-group, NH-bond and splitting of the carbon chain in amino acids and in gelatin as well. Sixteen references: 12 USSR and 4 USA (1930-1954). Graphs.

Institution : The P. F. Lesgaft State Natural Sciences Inst.

Presented by : Academician L. A. Orbeli, February 4, 1955





LAPINSKAYA, Ye. M., and KHENOKH, M. A.

"Action of Co<sup>60</sup> y -Radiation on Proteins and Amino Acids,"

paper presented at the 1st All-Union Conference on Radiation Chemistry 27 March - 2 April 1957.

P. F. Lesgart State Natural Sciences Inst, Leningrad.

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LAPINSKAYA, Ye.M., SYTINSKIY, I.A.

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Variation of ion transfer numbers in pores of isolated guineapig skin under different physiological conditions [with summary in English]. Biofizika 3 no.3:371-374 58 (MIRA 11:6)

1. Gosudarstvennyy yestestvenno-nauchnyy institut im. P.F. Lesgafta, Leningrad. (SKIN)
(ELECTROPHYS IOLOGY)

## CIA-RDP86-00513R000928620002-2 "APPROVED FOR RELEASE: 08/31/2001

, AUTHORS:

Khenokh, M. A., Lapinskaya, Ye

79-28-3-31/61

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TITLE:

The Effect of the r-Radiation of Radioactive Cobalt (Co 60)

on the Aqueous Solutions of Aromatic Hydrocarbons (Deystviye 5-izlucheniya radioaktivnogo kobal' ta (Co60) na

vodnyye rastvory aromaticheskikh uglevodorodov)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3,

pp. 698-703 (USSR)

ABSTRACT:

Based on their own works on the investigation of the effect of ionizing radiation (refs, 10, 11) and of ultrasound on organic compounds the authors exposed the saturated aqueous solutions of benzene, toluene and phenol to the action of solution of Co<sup>60</sup> ( $\sim$  2 C) at 15± 2°C. The water taken for this had been distilled three times and the experiments were repeated 3-5 times. It was shown that under the action of y-radiation an hydroxilation of the six-membered nucleus takes place in benzene solutions, the phenol yield being 1,31 of the molecule/100 eV, and at the formed formaldehyde 0,07 of the molecule /100 eV-. After the irradiation an

absorption with a maximum at 348 m/ was formed within the

Card 1/3

CIA-RDP86-00513R000928620002-2" APPROVED FOR RELEASE: 08/31/2001

The Effect of the f-Radiation of Radioactive Cobalt (Co 60) 79-28-3-31/61 on the Aqueous Solutions of Aromatic Hydrocarbons

spectrum of benzene, within the range of from 305-380 m/W. In the toluene solutions the radiation effect was accompanied by the formation of a phenol compound with a yield of 0,56 of the molecule/100 eV, and of formaldehyde, with a yield of 0,16 of the molecule/100 eV, The effect of the Y-radiation did not show any changes within the spectrum 230-280 mp; after the exposure, of toluene within however, an absorption within the interval of waves lengths of from 320-380 m peared with a maximum at 353-354 m . An effect of the Y -radiation on the absorption spectrum of the phenol solution could not be found. The absorption spectra of the benzene- and toluene solutions which had been treated with the Fenton activator (Fentona) differ from the spectra of the irradiated solutions. The differences in absorption bands show in the benzene solution within the 305-308 mt, in the toluene solution, however, within the whole range under investigation (230-380 m/2). There are 6 figures and 23 references, 11 of which are Soviet

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Card 2/3

The Effect of the r-Radiation of Radioactive Cobalt (Co 60) 79-28-3-31/61 on the Aqueous Solutions of Aromatic Hydrocarbons

ASSOCIATION:

Gosudarstvennyy yestestvenno-nauchnyy institut imeni P. F. Lesgafta (State Natural Science

Institute imeni P. F. Lesgaft)

SUBMITTED:

39 m + 1:

December 1, 1956

Card 3/3

AUTHORS:

Khenokh, M. A., Lapinskaya, Ye. M.

79-28-3-32/61

PARTY OF THE PARTY

TITLE:

The Change of Proteins and Aminoacids Under the Action of Ultrasonic Oscillations (Izmeneniye belkov i aminokislot

pod vliyaniyem ulitrazvukovykh kolebaniy)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3, pp. 704-710

(USSR)

ABSTRACT:

The present report mentions the experimental results on the effect of sound on proteins and aromatic as well as on aliphatic amino acids. This is a continuation of the investigations carried out by the authors concerning the effect of ultrasound and nuclear radiations on the molecular

compounds and their\_elementary members.

From  $2.10^{-2}$  -  $2.10^{-3}$  molar solutions amounting to 25 ml, of amino-acids and 0.5 % solutions of protein were subjected to the action of ultrasound with a frequency of 435 kcycles 38-40°C. The effect of ultrasonic oscillations on the solutions of protein, casein, gelatin of the aliphatic and aromatic aminoacids was investigated. It showed that under

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the action of sound an absorption increase of ultra-

CIA-RDP86-00513R000928620002-2" APPROVED FOR RELEASE: 08/31/2001

The Change of Proteins and Amincacids Under the Action of 79-28-3-32/61 Ultrasonic Oscillations

violet light within the range of from 230-300 m h takes place in the protein solutions without the formation of new absorption bands. In the gelatin solutions the sound effect caused an immediate change of the viscosity, a decrease of pH % and a decomposition of the molecules under the formation of ammonia and formaldehyde. The effect of ultrasound destroys the molecules. It was shown that the longer the chain of the aliphatic aminoacids the greater is the decomposition under the action of sound. The effect of ultrasound brings about the decomposition of the imidazol ring in hystidine, and in hippuric acid it leads to a rupture in the binding CO-NH<sub>2</sub> the amino acid becoming free. The oxidation effect of ultrasound causes the destruction of cystein under the formation of cystine which, however, with further sound effect also decomposes.

There are 9 figures, 1 table, and 17 references, 14 of which are Soviet.

Card 2/3

The Change of Proteins and Aminoacids Under the Action of 79-28-3-32/61 Ultrasonic Oscillations

ASSOCIATION:

Gosudarstvennyy yestestvenno-nauchnyy institut imeni

P. F. Lesgafta (State Natural Science Institute imeni P.F. Lesgaft)

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SUBMITTED:

February 7, 1957

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Card 3/3

LAPINSKAYA, Yº M.

AUTHORS:

Getsova, A. B., Lapinskaya, Ye. M., Khenokh, M. A. 20-1-22/58

TITLE:

The Development of Eggs in Antheraea Pernyi Under the Influence of Ultrasonic Treatment (Vliyaniye ul'trazvuka na razvitiye

yaits dubovogo shelkopryada). .

PERIODICAL:

Doklady AN SSSR 1958, Vol. 118, Nr 1, pp. 78-79 (USSR)

ABSTRACT:

According to the references in literature ultrasonic oscillations can influence the development of the seeds of various plants as well as stimulate the development of various animals. In this connection the authors tried to determine if ultrasound can be used for the acceleration of the development of the eggs of antheraea pernyi, which would be of practical importance. The sound treatment was carried out at various stages of development of the embryo and the duration of exposure to this treatment was also different. As experimental material served the eggs of antheraea pernyi of the first generation of spring 1956. The eggs were exposed to sound treatment in a test glass with destilled water at temperatures of from 13 - 150. Also the treatment of the control eggs is described. From the time of hatching as well as from the number of surviving caterpillars the influence of the ultrasonic oscillations on the velocity of development as well as on the rate of surviving

Card 1/3

The Development of Eggs in Antheraea Pernyi Under the Influence 20-1-22/58 of Ultrasonic Treatment.

embryos was determined. The ultrasonic oscillations were produced by means of an ultrasound generator (300 - 400 Watt, 125 kc). The influence of the duration of exposure on the velocity of development of embryos is mentioned in a table. Especially in the begin of the development (on the first day) the ultrasonic oscillations have a stimulating effect. Most stimulating is a from 2 - 3 minutes lasting exposure. The exposure at the begin of the development shortens the fortnightlong development of embryos by 3 days, i. e. 21 %. With an exposure of 60 and 90 minutes the stimulating effect of ultrasound decreases to 8,3 %. Also during the development of the embryonal band ultrasound has a stimulating effect. But an exposure carried out during blastokinesis leads to the death of the embryo. An exposure of the eggs of from 1 - 30 minutes has the most stimulating effect. Therefore ultrasonic oscillations can accelerate the development of the eggs of the antheraea pernyi. There are 16 references, 11 of which are Slavic.

Card 2/3

. The Development of Eggs in Antheraea Pernyi Under the Influence 20-1-22/58 of Ultrasonic Treatment.

ASSOCIATION: Zoologic Institute AN USSR (Zoologicheskiy institut Akademii

nauk SSSR). Institute for Evolution-Physiology imeni I. M. Sechenov AN USSR (Institut evolyutsionnoy fiziologii imeni

I. M. Sechenova Akademii nauk SSSR).

PRESENTED: August 8, 1957, by L. A. Orbeli, Academician.

SUBMITTED: August 1, 1957

AVAILABLE: Library of Congress

Card 3/3

VOTINOV, M.P.; LAPINSKAYA, Ye.M.; KHENOKH, M.A.; YEVDOKIMOV, V.F.; ANTUF'YEV, V.V.; STAFEYEV, A.V.

Electron paramagnetic resonance spectra of hippuric acid irradiated by gamma rays of Co<sup>60</sup>. Radiobiologiia 1 no.1:149-150 '61.

1. Politekhnicheskiy institut im. M.I.Kalinina i Institut tsitologii AN SSSR, Leningrad. (PARAMAGNETIC RESONANCE AND RELAXATION)

PARAMAGNETIC RESONANCE AND REIAXATION)
(HIPPURIC ACID)
(GAMMA RAYS—PHYSIOLOGICAL EFFECT)

LAPINSKAYA, Ye.M.; KHENOKH, M.A.; YEVDOKIMOV, V.F.

Radiochemical transformation pf phenylalanine. Radiobiologiia 1 no.5;694-700 '61. (MIRA 14:11)

1. Institut tsitologii AN SSSR; Leningrad. (RADIOCHEMISTRY)

I. 35083-65

ACCESSION NR: AR5005400

S/0299/64/000/019/R025/R025

SOURCE: Ref. zh. Biologiya. Sv. t., Abs. 10R176

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AUTHOR: Lapinskaya, Ye. M.; Danilova, L. N.

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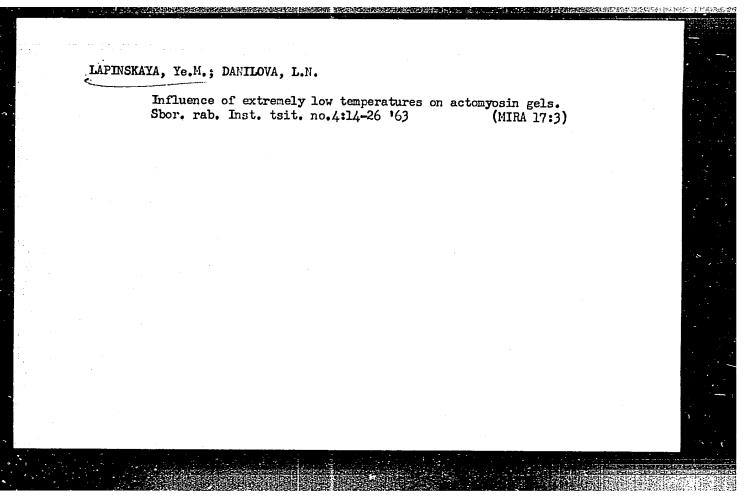
TITLE: Effect of deep cooling on actomyosin gels

CITED SOURCE: Sb. rabot. In-t tsitol. AN SSSR, no. 4, 1963, 14-26

TOPIC TAGS: actomyosin, gel, cooling, freezing, adenosine triphosphatase, structural property, mechanical property, syneresis

TRANSLATION: Changes taking place in the structural framework of actomycsin gels as a result of cooling to -20, -78, and -1960 were investigated. Freezing produces changes in the structural-mechanical properties of actomyosin gels in 0.6 M KCl. The nature of the changes depends on cooling time and not on temperature. During the freezing process adenosine triphosphatase activity changes and gel solubility decreases. In nonsaline solutions actomyosin melting leads to syneresis and protein coagulation; the addition of glycerine prevents these changes. The authors assume that the changes in gel properties under cooling action are related to rearrangement of the gel Cord 1/2

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INVENTOR: Lanskaya, K. A.; Gorchakova, E. N.; Surovtseva, Ye. D.; Lapitskaya, Ye. M.	
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SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 73	
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manganese 2 containing steel, chromium containing steel, molybdenum containing steel, vanadium containing steel, niobium containing steel, tungsten	
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manganese, chromium, molybdenum, vanadium, niobium, and tungsten. In order to in-	
crease the rupture and creep strength, the steel has the following composition in %:	
0.08-0.15 C, 0.4-1.0 Si, 0.4-1.0 Mn, 2.0-10.0 Cr, 0.5-2.0 Mo, 0.15-0.50 V,	
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LAPINSKAYTE, Ya. S.

Cand Biol Sci - (diss) "Bottom-living fauna of ponds of "Rita Ausma", its dynamics and role in the nutrition of carp." Vil'-nyus, 1961. 19 pp; (Ministry of Higher and Secondary Specialist Education USSR, Vil'nyus State Univ imeni V. Kapsukas); 260 copies; price not given; (KL, 6-61 sup, 208)

APPINSKI, A., mgr., inz.; CYMBRYKIEWICZ, Z., mgr., inz.

Resistors from carbon plates. Przegl elektrotechn 38
no.4:175-176 Ap 162.

1. Zaklad Materialoznawstwa Elektrotechnicznego.

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AUTHOR	
ter engineer)	
ter engineer  TITLE: Silver-cadmium oxide electrical contacts	
2 PITTE: Silver-Gammas. 12 no. 41, 1964, 59-76	
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SOURCE: Silver cadmium oxide electrical Source, v. 12, no. 41, 1954, 59-76  SOURCE: Warsaw. Instytut Elektrotechniki. Prace, v. 12, no. 41, 1954, 59-76  SOURCE: TAGS: electric contact, silver contact, cadmium oxide contact, cermet contact, TOPIC TAGS: electric contact, silver contact, alloy mechanical property	
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ABSTRACT: The paper reports an experimental Ag, AgCd9 (an Ag-Cd alloy containing a contacts made of the following materials: Ag, AgCd9 (an Ag-Cd alloy containing 11% cadmium), oxidized AgCd9, oxidized contacts made of the following materials: Ag, AgCd9 (cadmium), AgCd11 (an Ag-Cd alloy containing 11% cadmium), AgCd11	
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another of Nomer to a second as well as the second second	
perfies of the materials was investigated, and perfies of the oxidized internally. The thickness of the oxidized ties of AgCd9 and AgCd11 wires was measured after varying periods at 800C. The department on AgCd9 and AgCd11 wires was measured after varying periods at 800C.	
ties of AgCd9 and AgCd11 wired massired after varying periods at source.	
on ArCd9 and ArCd11 wires was included	
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ACCESSION NR: AT5015231

of the hardness of AgCd9 and AgCd11 wires on the distance below the surface was determined after the wires were kept at 800C for 9 hours. The tensile strength and elongation under load of AgCd9 and AgCd11 wires was determined before and after exidation. The following were also determined: Electrical conductivity of AgCd9 and AgCd11 wires as a function of oxidation time at 800C; The effect of the number of electrical junctions on the wear and resistance of contacts made of Ag, Ag-Cd, oxidized Ag-Cd and Ag-CdO; The structure of oxidized Ag-Cd and Ag-CdO cermet contacts before work and after 100,00 junctions; The hardness of Ag, Ag-Cd, oxidized Ag-Cd and Ag-CdO cermet contacts in the work and after 100,000 junctions. The experimental results, summarized in a table, snow distinct differences in the properties of the materials. The results are discussed and number of conclusions drawn. It is noted that silver has the greatest conductivity and a second conclusions drawn. contact resistance in its initial state. Because of arcing, the loss of mass of silver tacts becomes appreciable after 100,000 junctions. In contacts made of silver, the thick ness of the layer of decreased hardness is much greater than in contacts made of the other materials. After work, the Ag-Cd alloys used showed a small contact resistance, small loss of mass and somewhat greater hardness than the other materials tested. Although oxidation of the Ag-Cd alloys decreased the mechanical strength and plasticity, it increased their conductivity and decreased their mass loss and the thickness of the layer of decreased hardness. Ag-CdO cermet contacts showed a significant increase in contact resistance

I 61712-65 ACCESSION NR: AT5015231 after 100,000 junctions, and greater loss of mass than those made of the other materials. In the concluding section of the paper, the authors discuss the advantages of contacts made of oxidized Ag-Cd alloy and make several recommendations concerning their use and production. Its particular usefulness for low-voltage low-power applications is noted. Orig. art. has: 14 figures and 4 tables. ASSOCIATION: Zakład Materialoznawstwa Elektrotechnicznego, Instylut Elektrotechniki, Warsaw (Department of Electrical Engineering Materials Science, Institute of Electrical SUBMITTED: 10Mar64 ENCL: 00 SUB CODE: NO REF SOV: 000 OTHER: 008 electrical alloys 3/3 00 Card

LAPINSKI A. Z. Panstwowego Zakladu Higieny. Filia w Gdansku. O odmianie sluzowej paleczki ropy blekitnej (Ps. aeruginosa var. mucosa) A mucous variant of Ps. aeruginosa Medycyna Doswiadczalna i Mikrobiologia, Warsaw 1949, 1/2 (223-252) Tables 9 Illus. 2

Gram-negative, rod-shaped, pigment-producing organisms were isolated several times from the CSF in a case of purulent meningitis in an infant. A constant, characteristic feature was their growth in a mucoid form. Capsules were not found. Spontaneous dissociation in mucoid and non-mucoid variants occurred easily. Biochemical reactions were identical with those of Ps.

Cross-reactions were observed in agglutination tests. A serologically active polysaccharide was isolated from the ucoid form.

Meisel - Warsaw

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No. 1-6

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CIA-RDP86-00513R000928620002-2" APPROVED FOR RELEASE: 08/31/2001

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SUCINSKA, Dánuta; WITKOWSKA, Barbara

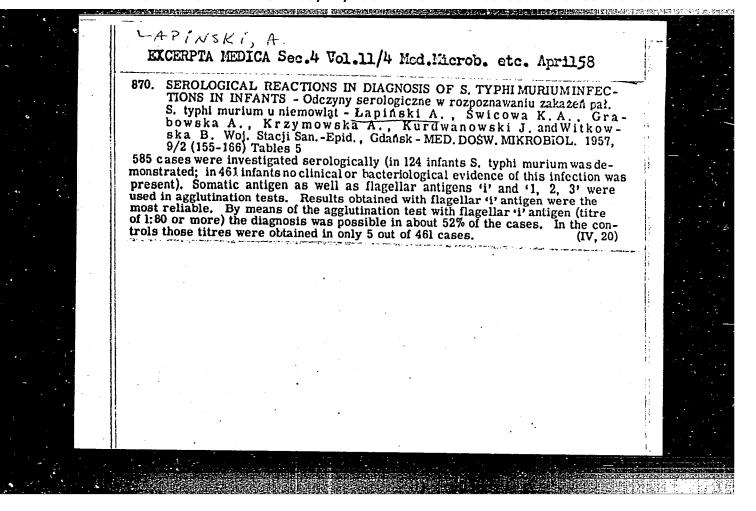
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MARKS-ZAKRZEWSKA, A.; IAPINSKI, A.; FILIPOWICZ, A.; GRABOWSKA, U.; RENKIEISKA, H.; WITKOWSKA, B.

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(DYSENTERY, BACILIARY, in inf. & child, fecal agglut. test (Pol))
(AGGLUTINATION.

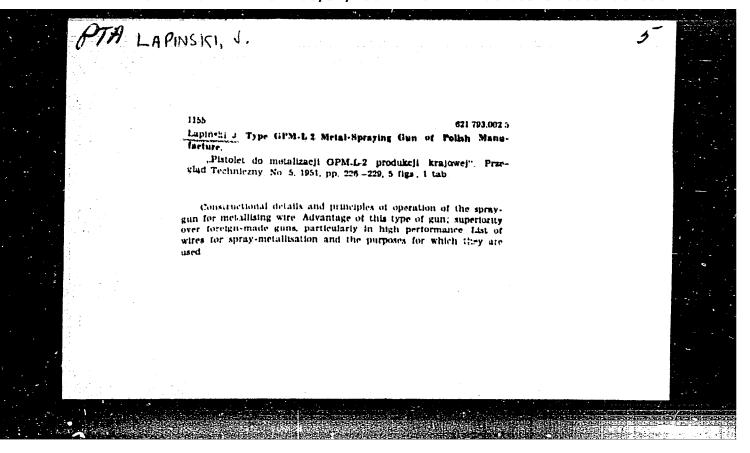
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(DYSENTERY BAOILLARY diag)



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Spray metalization as a means of economy. p. 180.

PRZEGLAD SPAVALNICTMA. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskichs i Instytut Spawalnictwa) Warszawa, Poland. Vol. 7, no. 7/8, July/Aug. 1955.

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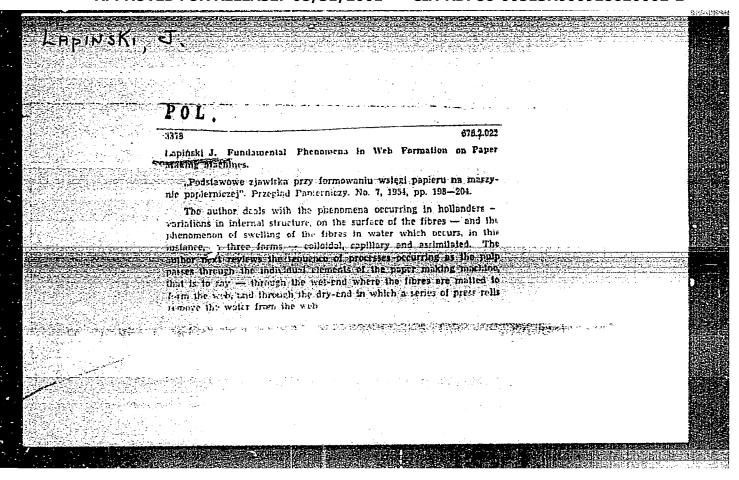
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"New Trends in the Design of Papersaking Machines" II. p. 198 (Przeglad Pavierniczy, Vol. 9, No. 7, 7/1953, Lodz)

SB: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.



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The conditions of the development of a papermaking-equipment factory in Poland.

P. 217 (PRZEGLAD PAPIERNICZY) Lodz, Poland Vol. 13, no. 7, July 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958

**的是我们这出售**对例的标准的 H-2 COUNTRY : Poland CATEGORY 1959, No. 75118 : RZKhim., No. 21 ABS. JOUR. : Lapinski, J. AUTHOR: Not given INST. : Hydraulic Cyclones TITLE :Przeglad Papiern, 15, No 4, 105-109 (1959); No 5, ORIG. PUB. 141-146 (1959) ABSTRACT The principle and theory of operation of hydraulic cyclones are described with special emphasis on the equations for natural and forced circulation and on the physical foundations for the separation of the solid phase. The effect of various factors on the efficiency of the hydraulic cyclones is discussed. From author's summary CARD: 1/2

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"Phase fault localizers for cables." p. 383. (PRZEGLAD TELEKOMUNIKACYJNY. Vol. 27, No. 12, Dec. 1954. Warszawa, Poland)

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

6(4,7); 9(6,7)

PHASE I BOOK EXPLOITATION

POL/2370

Lapiński, Marian, Docent of the Warsaw Polytechnicum.

Urządzenia pomiarowe teleelektryki (Telemeters) Warsaw, Wydawnictwa komunikacyjne, 1958. 406 p. Errata slip inserted. 2130 copies printed.

Reviewer: Wacław Żochowski, Master of Engineering; Scientific Ed.: Edward Kowalczyk; Tech. Ed.: Władysław Olkiewicz.

PURPOSE: This book is intended for engineers dealing with communications, automatic control, and power engineering.

COVERAGE: The author discusses circuits and principles of operation of devices used in telecommunications and automatic control. He describes voltage and current stabilizers, amplifiers, oscillators, switching circuits, computing devices and discriminators and presents their operating characteristics. No personalities are mentioned. There are 70 references: 30 Soviet, 14 Polish, 24

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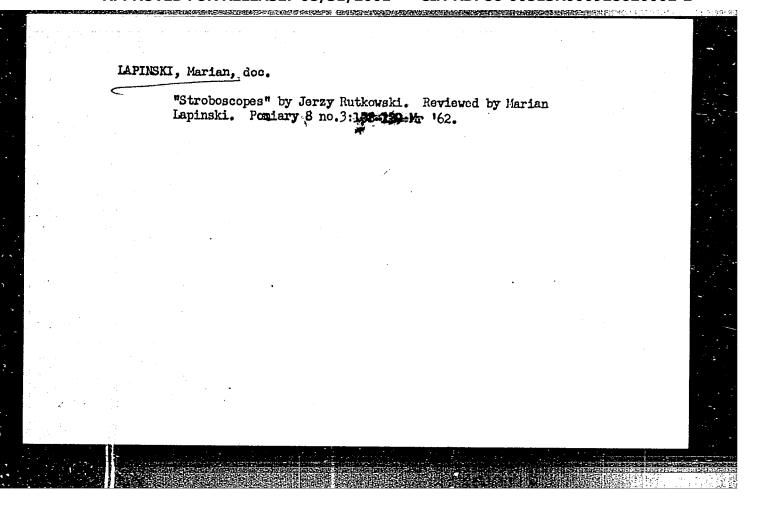
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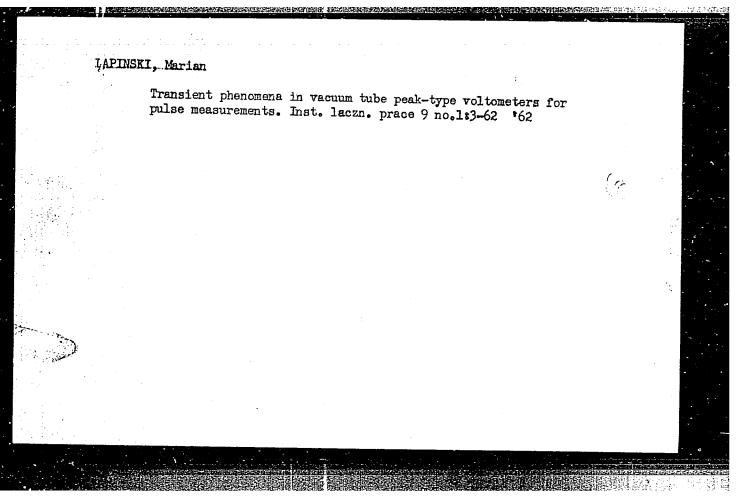
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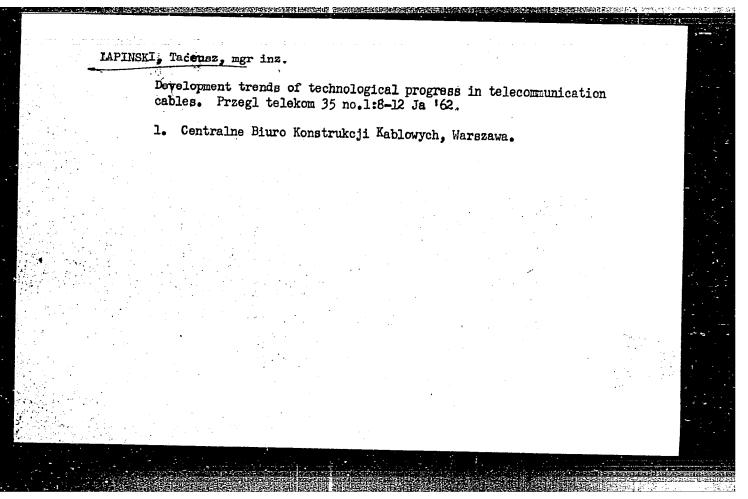


LAPINSKI, T.; PERKOWSKI, Z.

"Trends in the development of the cable industry."

p. 8 (Tele-Radio) Vol. 3, no. 1, Jan. 1958 Warsaw, Poland

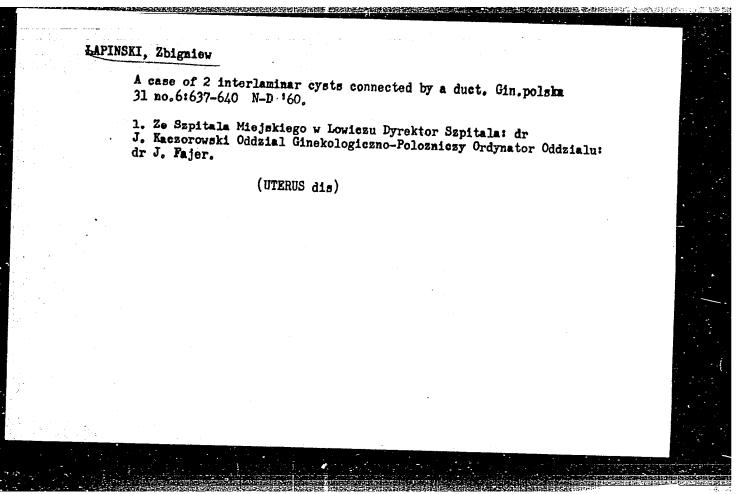
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Lepiński,Z.

AUTHOR:

Measurement and calculation of fatigue stresses in blades of aircraft .

TITLE:

gas-turbines at resonance oscillations

PERIODIAL:

Referativnyy zhurnal, otdel nyy vypusk. 42. Silovyye ustanovki, no.18, 1962, 32, abstract 42.18.176 (Wytrzymałość zmeczeniowa tworzyw i

elementów metalowych, Warszawa, 1961, 81-94 [Polish])

TEXT: A method is suggested of calculating the natural oscillation frequency for blades of variable cross section; the method takes into account the rotational speed of the rotor, rigidity of blade fastening, their profile angle, and manufacturing technology. Two groups of forces are shown to generate low-and high-frequency resonance oscillations. Methods for their complete or partial elimination are outlined. Ample description is given of the method for determining the oscillation frequency on operating turbine, by measuring the stresses appearing in the blades, with looptype strain gages having resistance wires of 0.4 mm thickness. The stresses are measured at 3-5 points of the cross section along the blade. At stresses of 15-20 kg/cm Card 1/2

3/262/62/000/018/004/007 1007/1207

Measurement and calculation ...

and at 750°C, operation time of the strain gage varies from 5 to 16 min. The spot where the strain gage is fastened is coated with a refractory cement; the blades together with the strain gage, prior to their fastening to the rotor disc, are raised in an electric furnace to the working temperature of the turbine. Technique and methods are described of strain-gage measurements by means of two types of oscillo—scopes; cathode-ray, and loop type. A method is described for calculating the stresses according to strain gage measurements, and a practical example is given of calculation for a disc with 64 blades. The safety factor for fatigue stresses is usually taken as 2.5 to 2.8, depending on the blade profile. This factor may be determined from the sum of static and dynamic stresses. The calculation method is illustrated by graphs and schematical diagrams. [Abstractor's note: Complete translation.]

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Measurement and computation of vibration stresses.... A107/A126

tion stress. The tensiometers are attached at point B. The stresses in point B and C are expressed by

ing to Figure 1. The tensiometers are attached at distances of 90°, i.e., at 0, 90, 180 and 270°. The working time of a tensiometer is 5 + 15 mm at a temperature of 750°C and an intensity of  $\pm$  15  $\pm$  20 kg/mm<sup>2</sup>. The tensiometers are attached to the blades with fire-proof cement having similar characteristics as the blades, whereas the heat resistance of the chrome-nickel wires should be 700 - 900°C. The tensiometers which are insulated are double connected with the oscillographs, whereas the mass is connected with the collector ring. Minus connections should be connected separately with minus rings of the collector. The connections between tensiometers and turbine disks are insulated by asbestos. To avoid disconnections 2, 3, 4 or 6 brushes are fixed on collector rings. All brushes from one ring are connected by one wire with the oscillograph. The measurings are performed by two oscillographs, one screen cathode oscillograph and one knot oscillograph. First observations are made by the screen cathode oscillographs followed by notes on a tape. The measurements are repeated 2 + 3 times. There are 5 figures.

Card 2/3

P/008/61/000/003-4/002/002 A058/A126

AUTHOR:

Lapinskiy, Zdzisław, Master of Engineering

TITLE:

Measurement and calculation of the vibration stresses in aircraft

gas turbine blades, Part II

PERIODICAL: Technika Lotnicza, no. 3-4, 1961, 47-52

TEXT: In the first part of this article a method of tensometric measurement was presented of the stresses caused by vibration at some rotating combustion turbine blades. In the present part of this article a method of calculation of maximum stress at the blades is given based on conducted measurement. This method of calculation is based on the probability theory. The author presents also two methods of calculation for maximum stresses at the blades of a turbine wheel. Both are based on measurement of the stresses of some of the blades. The first method is based on an average value of the test specimen  $\bar{x}$  and an average deviation of the test specimen  $S_n$ , the other method is based on empiric dependence. The results obtained by applying both methods are compared. The author refers to a work on subject calculation published by K. R. Nair in "Biometrika" and to a book published by Professor J. Oderfeld. The blades of the investigated air-

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Measurement and calculation ...

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A058/A126

craft turbine were made of alloy steel with addition of nickel chromate and molybdenum. There are 4 figures and 4 tables.

LAPINSKI

5/264/62/000/012/001/002 D036/D114

AUTHOR:

Łapiński, Idziskaw

TITLE:

Fatigue strength in aircraft building Referativnyy zhurnal, Vozdushnyy transport, no. 12, 1962, 7-8, abstract 12A54 (Prace Inst.loth., no. 14, 1961, 44 pp., illust.

[Pol.; summaries in Russ., French, Eng. and Ger.]

Two methods are expounded for calculating the permissible service life PERIODICAL: of aircraft structures, subject to fatigue strength conditions, which consider or aircraft structures, subject to fatigue strength conditions, which consider the essential (and at the present time virtually ineradicable) scattering of the characteristics of (a) the manuscrapt of external loads and (b) the fatigue characteristics of (a) the recurrence of external loads and (b) the fatigue strength of the structure. In the first method; the permissible service life is strength of the structure. In the first method, the permissible service file is determined on the basis of tests made on specimens or structural elements with several constant values of the recurrent load amplitude, and data on the spectrum of these loads, whereof the linear theory of the summation of fatigue-induced faults is used. To reduce the required number of test specimens, the fatigue curve 6-N is presented in analytical form, under the assumption that the para-

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Fatigue strength in aircraft building

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meter C in the fatigue curve equation  $6 = bN^{-c} + Z$  is a constant and does not depend on the fatigue destruction probability P at a given value of  $\delta$ . This supposition permits reducing the number of specimens or structural elements required for the testing by approximately one half for  $P = 10 \div 100\%$  and by approximately · 20-10 times for P = 0.01:10,. The so-called main load spectrum, obtained by rejecting very small and very large loads from the complete spectrum, is introduced into the calculation. Loads resulting in stresses below the endurance limit are considered as very small loads, and loads produced by air gusts with a velocity of over 10 m/sec are considered as very large loads. If the very small loads are neglected, it is possible to obtain a 20% increase in the permissible service life of the aircraft. It is shown that the scattering of the fatigue strength 6 at a given value of N almost always has a normal or normally-logarithmic distribution, whereas scattering of N at a given value of 6 does not normally obey the normal law. Scattering of the 6 values is considerably less than scattering of the N values. Recommendations are made for determining the N scattering characteristics, the 6- N curve being used for calculating the fatigue limit. It is recommended to calculate the assemblies and connections of aircraft structures basing on a given value of 6, not of N, since under low stresses, usually caused

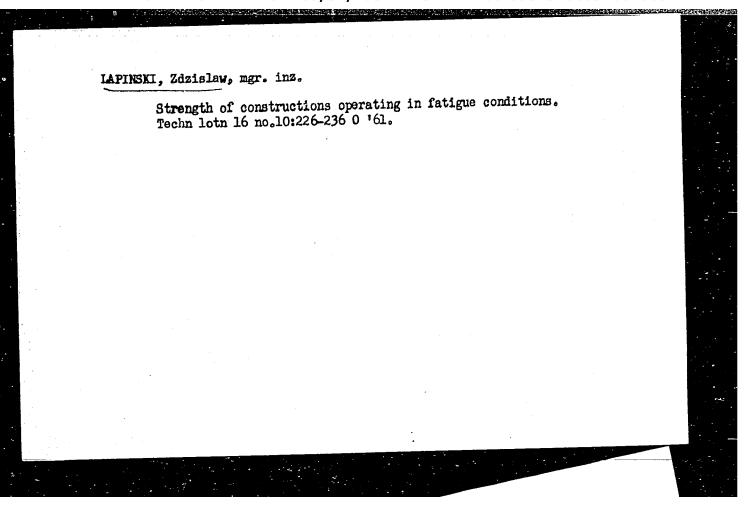
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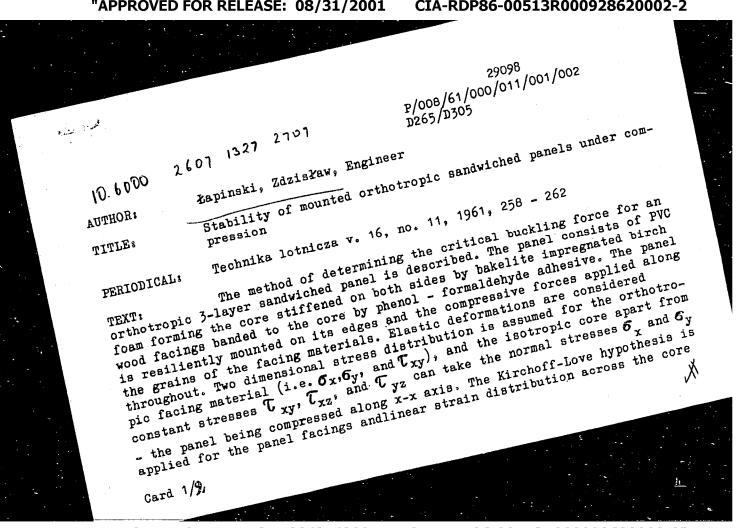
S/264/62/000/012/001/002 D036/D114

Fatigue strength in aircraft building

by gusts of air, the 5-N curve is almost parallel to the axis of N, and in this case it is very difficult to correctly select the distribution function for N. In the second method, the permissible service life is determined by the results of programmed fatigue tests of the specimens or elements with a changing load amplitude. The use of this method is illustrated by an analysis of the results of programmed load tests of 5 wings. Criteria are given for selecting the number of program blocks into which the complete spectrum of recurrent loads is divided, and also the number of steps into which the loads are divided within each such block. (Abstracter's note: Complete translation.)

Card 3/3





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Stability of mounted ...

thickness is assumed. The experimental methods of determining the Young modulus E and shear modulus G for PVC is described (E = 800 kg/cm², G = 280 kg/cm²). The expression for the critical buckling force is obtained by considering the differential equations for the stresses and strains prevailing in each layer of the panel and by finding the variation of the total potential energy stored in 3 layers which is equal to the variation of the compressive force applied. The critical force is given in a form convenient for practical calculations in terms of the coefficient of critical stress (k) as a function of the rartio b/a (b - length, a - width of the panel) for various non-dimensional factors (S) depending on the panel's flexural rigidity, referred to the shearing stiffness of the core. 4 graphs of k vs. b/a are given, obtaining thus a series of curves for various S. The method of using these graphs is explained by an example. There are 11 figures.

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Card 2/2

P/008/61/000/012/002/003 D265/D302

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Zapinski, Zdzisław, Master of Engineering

TITLE:

AUTHOR:

The problem of rocket flight in a gravitational field

PERIODICAL: Technika lotnicza, no. 12, 1961, 299-303

TEXT: The author describes the ballistic laws applied to rocket flights and gives the equations of paths of rockets in earth's gravitational system and under the influence of the gravitational fields of other planets. The velocities of projection, and paths of rockets with times of circling in elliptical orbits are given. Space travel is also discussed in the light of Einstein's special theory of relativity. Various possibilities of space travel are considered together with their advantages. The aims of sending artificial satellites into space are enumerated and a list of all types of satellites sent into space is given in chronological order. A table giving the parameters of celestial bodies which are of interest for space travel is included. There are 7 figures and 1 table.

Card 1/1

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LAPINSKI, Z., mgr. inz.

Stability of flat and sweeped plates under operation of various loads on cover. Techn loth 16 no.12:2 of cover, 320, 3-4 of cover. 10 161.

LAPINSKI, Z., mgr. inz.

Assistance of "Technika Lotnicza" in designing. Durability of rectangular plates. Pt. 2. Techn lotn 17 no.5:2 of cover, 160, 3-4 of cover My '62.

