

GOKILBERG, V.M.

A

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3653. Gas-filled capacitors. Gokilberg, V. M. *Elektrichesvo* (No. 3) 76-8 (March, 1949) In Russian. The electric strength of a number of gases was studied, particularly SF<sub>6</sub>, "Elegaz," which has an electric strength 2½ that of air. Fixed capacitors of 2000 pF at 30-40 kV peak filled with N<sub>2</sub> at 40 atm. were manufactured before the war and in 1941. capacitors, whose construction is described, were made up to 4000 pF for 40 kV peak at a frequency of 1-2 Mc/s, and filled with SF<sub>6</sub> at a pressure of 7-8 atm.; this gas then had greater electric strength than N<sub>2</sub> at a pressure of 15-20 atm. A 1200 pF capacitor filled with SF<sub>6</sub> loaded to 2000 kVA worked

a. temperature of 70°c in an ambient temp. of 20°c without forced cooling. SF<sub>6</sub>-filled capacitors of 4000 pF for 10-12 kV have recently been made for furnace applications. Constructional details are given of a variable capacitor of 150-1170 pF for 32 kV peak at 6 · 10<sup>3</sup> c/s filled with SF<sub>6</sub> at 8 atm. which, when loaded to 1000 kVA, had a temperature rise of 25-35°c. After several months, working the gas pressure dropped by a few %. Gas-filled capacitors are particularly suitable for use at r.f.

AVR 514 METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

RABUKHIN, A.Ye.; GOKHBERG, V.P.; DOBROKHOtova, M.N.; MOROZOVA, L.N.;  
NEFEDOV, A.F. (Moskva)

Effectiveness of prolonged drug therapy for patients with fresh  
forms of pulmonary tuberculosis. Klin.med. no.12:28-33 '61.  
(MIRA 15:9)

(TUBERCULOSIS)

SOKOLOV, N.V., kand.tekhn.nauk; SHCHETKIN, L.I.; GOKHBERG, Ya.A., inzh.;  
KRASIL'NIKOV, L.A., inzh.; DMITRIYEV, V.M., inzh.

Production of rope wire with a heavy zinc coating. Stal' 22  
no.4:368-370 Ap '62. (MIRA 15:5)

1. Beloretskiy staleprovolochno-kanatnyy zavod.  
(Wire drawing) (Zinc plating)

GOKHBERG, S. ... inzh.; AVIBON, D.A., inzh.; MAMMIV, Ya.I., inzh.

1. Design of carrying wire ropes for overhead railroads.  
No. 15 no. 1: PFI-283 Mr. 106. (MIRA 12iz)

2. Vysokoskorostnyy stal'nyy provolok dlya kranov. 1.

KIDIN, I.N.; MALCHUKHIN, S.N.; GORHUBA, Ya.A.; MANDRUSO, G.I.;  
MINDUCOV, Yu.M.; KRCHAPIN, A.A.

Effect of the deformation of austenite prior to patenting on the  
properties of carbon steel wire. Izv. vuz. ucheb. razv.; chem.  
met. P no.11:136-140 '65. (MET. DR:11)

L. Mendeleyev Institute of Steel and Alloy.

GOKHBLIT, A.I.

Uniform reducing gears for carriages of screw-cutting lathes.  
Stan.i instr. 29 no.5:35-37 My '58. (MIRA 11:7)  
(Lathes) (Gearing)

GOKHBLIT, I.I.

Mechanism of the development of sleep inhibition in ontogeny.  
Trudy Inst. norm. i pat. fiziol. AMN SSSR 6: 46-49 '62.  
(MIRA 1711)

1. Laboratoriya vozrastoy fiziologii i patologii (zav. - prof.  
I.A. Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii  
AMN SSSR.

E. CERRETA MELICA Sec 2 Vol 12/5 Physiology May 59

1900. ELECTROENCEPHALOGRAPHIC CHARACTERISTICS DURING SLEEP AND WHILE AWAKE IN DOGS OF DIFFERENT AGE (Russian text) - Gokhblit I. I. - BYULL. EKSPER. BIOL. I MED. 1958, 46 7 (30-35) Graphs 3

Every age period is characterized by definite frequency-amplitude indices of EEG, depending on the condition of the animal. In young animals the basic electric activity when the animal is awake is characterized by a rhythm equal to 10-14 per sec. It corresponds to the future rhythm of type. Commencing from the age of 18 days, the rhythm increased to 16-18 per sec. while at 3 months it was 35-45 per sec. Sleep does not cause any significant changes in the bioelectric activity of young puppies. The first signs of the change of EEG in sleep (as compared to that while the dog is awake) commence from the 18-20th day of the dog's life and are manifested by the appearance of slow oscillations of large amplitude. When the puppies are 3 months old, the typical EEG changes characteristic of adult animals appear in sleep.

(11, 8\*)

*[Faint handwritten notes, possibly bleed-through from the reverse side of the page]*



GOMIBLIT, I.I.; KORNIYENKO, I.A.

Demarcational difference in potentials as a characteristic of the changing condition of polarization of skeletal muscles in various age periods. Biul. eksp. biol. i med. 49 no.2:26-31 F '60.

(MIRA 14:5)

1. Iz laboratorii vozrastnoy fiziologii i patologii (zav. - prof. I.A.Arsnavskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N.Chernigovskiy AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinyam.

(MUSCLE)

(AGING)

GOKHBLIT, I.I.

Characteristics of electrical activity of the cerebral cortex in the newborn under various conditions. Biul. eksp. biol. i med. 52 no.8:12-17 Ag '61. (MLA 15:1)

1. Iz laboratorii vozrastnoy fiziologii i patologii (zav. - prof. I.A.Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen ANU SSSR V.V.Parin) ANU SSSR, Moskva. Predstavlena deystvitel'nyy chlenom ANU SSSR V.V.Parinyu.  
(CEREBRAL CORTEX) (ELECTROENCEPHALOGRAPHY)  
(INFANTS (NEWBORN))

СОКРАЩЕНИЕ, И.И.

Characteristics of the polarization of the cerebral cortex according to the degree of impedance and depolarization potential in dogs of various ages. Trudy Inst. normal. i pat. fiziol. ANU SSSR 7:35-36 '64, (MIRA 13:16)

1. Laboratoriya normal'noy fiziologii i patologii (zav. - prof. I.A. Arslanovskiy) Instituta normal'noy i patologicheskoy fiziologii ANU SSSR.

GOKHBOM, Ye.N., kandidat ~~teknicheskikh~~ nauk, dotsent; VEKSLER, V.M.,  
kandidat ~~teknicheskikh~~ nauk, dotsent.

Measures for improving the work of the PK-6 railroad crane. Sbor.  
LITZHT no.145:172-190 '53. (MIRA 8:10)  
(Cranes, derricks, etc.)

KOGAN, Liber Ayzikovich; kand.tekhn.nauk; GOKHBOM, Yevgeniy Naumovich;  
VEKSLER, Vladimir,Markovich; KHOTIN, Boris Mikheylovich;  
Prinimali uchastiye: PETROVA, T.I., ANAN'YEVA, S.A.; TAL', K.K.;  
BUTSKIY, A.M.; LOBOV, A.A. BOBROVA, Ye.N., tekhn.red.

[Containers] Konteinery. Pod obshchei red. L.A.Kogana. Moskva,  
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia,  
1960. 318 p. (MIRA 14:3)  
(Railroads--Freight) (Containers)

GOKHBOM, Ye.N., dotsent, kand. tekhn. nauk; VEKSLER, V.M., dotsent, kand.  
tekhn. nauk

Efficient parameters of flat freight cars and containers. Sbor.  
LIIZHT no. 168:277-300 '60. (MIRA 13:10)  
(Railroads--Freight cars) (Containers)

GOKHBOH, Ye.N., kand.tekhn.nauk, dots.; BARTOSH, N.T., inzh.

"Establishing time standards for the mechanical loading and unloading of cars" by A.V.Lenskii, Reviewed by Ye.N.Gokh'bon, N.T. Bartosh. Vest.TSNII MPS 19 no.1:62-63 '60. (MIRA 13:4)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta imeni akad. V.N.Obratsova i Transportnoye upravleniye Leningradskogo soveta narodnogo khozyaystva.  
(Bibliography--Loading and unloading)  
(Lenskii, A.V.)





KYVKIN, Mikhail Osipovich; DELEN, YEN, Yevgeny Ivanovich,  
PLESHKOV, Leonid Yefimovich; KURBANOV, Yevgeniy  
Yevgeniy Naumovich; KAMIN, Yevgeniy I.

[Transportation in metallurgical plants; Transport va  
metallurgicheskikh zavodakh. In: Metallurgiya, 1964.  
412 p. OCLC 171121]

USSR / General and Specialized Zoology - Insecta

0-7

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 23264

Author : Gokhelasvili

Inst : On the Problem of the Studying of Cutworm Moth Bio-ecology.

Orig Pub : Tr. Opyt. st. plodovodstva AN GruzSSR, 1956, 4, 121-131

Abstract : In Kartli fruit orchards the following cutworm moths are harmful: *Monima* (*Taeniocampa*) *stabilis*, *M. incerta*, *M. gracilis* and *M. pulverulenta*, *Calymnia trapezina*, *Graphiphora c-nigrum* and *Scopelosoma satellitia*. The most harmful of them, 4 species of p. *Monima*, develop in one generation, winter in a chrysalis stage underground, preferably near a rootneck, at a depth of 5-15 cm. The flight of moths comes in the spring. The beginning of flight is at 5°, the maximum of flight is at 15°. After 6-17 days the moths deposit eggs in groups on stems and branches. The egg stage lasts 14-33 days. Then birth of caterpillars takes place during the period when apple inflorescence appears. The caterpillar stage lasts 30-39 days. The caterpillars devour buds, small buds, ovaries, fruit and leaves of fruit trees (of apple, pear, sour and sweet cherries).

Card : 1/2

NAIDENOV, G., aspirant; SOLYANIK, S.; RADCHENKO, Yu., assistant; FARBYAN, S., aspirant; GOKHELASHVILI, R., kand.biolog.nauk; LEVCHENKO, V., kand. sel'skokhoz.nauk; ARUTYUNYAN, Zh.; MOUSESIYAN, R.; MILOV, Y., aspirant

Brief news, Zashch.rast.st vradi bol. 10 no.415-5a '65.

(MIRA 18:6)

1. Ukrainskiy institut orashcheyeniya zemledeliya, Kherson (for Naidenov).
2. Predsedatel' kollektiva imeni Andanava, Chuguyevskogo rayona, Khar'kovskoy oblasti (for Solyanik).
3. Khar'kovskiy sel'skokhozyaystvennyy institut (for Radchenko).
4. Armyskiy institut nacheniya rasteniy (for Farbyan).
5. Ekspiratsionnaya opytnaya stantsiya plodovodstva (for Gokhelashvili).
6. Pedagogicheskiy institut, g. Birsik, Bashkirskaya ASSR (for Levchenko).
7. Leninskaya selektsionnaya stantsiya (for Arutyunyan, Mousesyan).
8. Vsesoyuznyy nauchno-issledovatel'skiy institut usobreniy i agrokhovovedeniya, Moskva (for Milov).

GOKHELASHVILI, R. D., Cand Biol Sci -- (diss) "Results of the study of the most important forms of stem borers in fruit gardens and the testing of measures of attack against the pests under the conditions of Kartli (Eastern Georgia)." Tbilisi, Georgian Agricultural Inst Press, 1960. 18 pp; (Ministry of Agriculture Georgian SSR, Georgian Order of Labor Red Banner Inst of Agriculture); 150 copies; free; (KL, 17-60, 146)

BAKHAREV, A.P.; GOKHENSON, B.S.

Results of testing high-capacity DT-70 caterpillar tractors, Trakt.  
i sel'khoz mash. no.1:4-6 Ja '58. (MIRA 11:4)  
(Caterpillar tractors)

1. The first part of the document is a list of names and titles, including the names of the authors and the titles of the articles. The names are listed in a column on the left, and the titles are listed in a column on the right. The titles are followed by the names of the authors.

L 5307-66 EWT(m)/EWP(t)/EWP(k)/EWP(b)/EMA(h)/EMA(c) JD/HW

ACC NR: AP5025674

SOURCE CODE: UR/0286/65/000/018/0019/0019

AUTHORS: Gokhfel'd, D. A.; Laptevskiy, A. G.

ORG: none

TITLE: A method for obtaining corrugations. Class 7, No. 174600

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 19

TOPIC TAGS: metalworking, body of revolution, metal industry, corrugation

ABSTRACT: This Author Certificate presents a method for obtaining corrugations on bodies of revolution. To insure a positive formation of corrugations in practically any location upon the surface of a body of revolution, intensive heating is applied at the proper location, while the adjacent zones are simultaneously chilled. The heated zone is continuously moved along the surface of the body of revolution to the desired location of the corrugations.

SUB CODE: TE, MM/ SUBM DATE: 24Feb64/ ORIG REF: 000/ OTH REF: 000

Card 1/1

UDC: 621.7.04--462.2/3--408.8

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GOKHPEL'D, D.A., kand. tekhn. nauk; GRIVENKO, N.I., inzh.; CHERNYSHEV, V.K.,  
inzh.

Investigating static stresses in chassis frames of high power  
tractors. Sbor. st. CHPI no.11:5-19 '57. (MIRA 11:4)  
(Strains and stresses) (Tractors)



GOKHFEL'D, D.A., kand. tekhn. nauk.

Elastic-plastic condition of disks resulting from the uneven heating.  
Sbor. st. CHPI no.11:48-58 '57. (MIRA 11:4)  
(Gas turbine disks)

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3/572/61/000/001/002/006  
D331/D302

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1927

AUTHOR: Gokhfeld, D.A., Candidate of Technical Sciences, Dient  
TITLE: On the possibility of increased plastic deformations up  
to cyclic temperature effects  
SOURCE: Rascheti na prochnost; teoreticheskiye i eksperimentalnye  
typy volnivaniya pri izmeneni mashinostroitelnykh konstruktsiy.  
Sbornik statei, vol. 7, 1961, 64-67n

TEXT: The article considers the problem of compliance conditions of repeated heating and takes into account the yield limit for the corresponding temperature. It assumes a linear relationship and allows the increase of plastic deformations with each cycle to be revealed, and this is of interest with regard to the phenomenon of thermal fatigue. The statically undetermined system of a central bolt 1, and coaxial tube 2, joined by plates 3, of Fig. 1 are treated as nondeformed. The bolt alone is subject to periodic temperature changes, and has a larger cross section than the tube. The author gives an analysis of stresses and deformations

Card 1/4

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In the above, this results in the equation of limit temperature of compliance  $t_{20} = \frac{1}{\alpha} \frac{(\sigma_{pl} - \sigma_0)}{E}$ , where  $\alpha$  is the ratio of cross-section of the tube. For simplification purposes, the diagram of stress-strain is used. When  $\alpha$  and  $t_{20}$  are defined by

$$\alpha = \frac{AE}{aE} \frac{l}{i}$$

and

$$t_{20} = \frac{1}{\alpha} \frac{(\sigma_{pl} - \sigma_0)}{E}$$

each equation of the system is obtained. If elements of the system are to be equal, then the plastic deformation of element is equal to the total plastic deformation of element. The problem of repeated work may be solved by the graph of the states prepared by A. R. K. ...

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S/572/61/000/007/002/006  
D221/D302

On the possibility of ...

plasticheskikh svoistv materialov (Calculation of Structures with Consideration of Plastic Properties of Materials), Gosstroyizdat, 1954). During the analysis of the system shown in Fig. 1, four limit conditions of stress are found. In the graph with the coordinates  $\sigma$  and  $t$ , the above corresponds to lines that bound the zone of possible elastic states. The instances of combined effect of cyclic temperature and load action are of interest. The same system is considered with additional load due to tensile force  $P$ . The graph of possible states is drawn then in three coordinates of  $\sigma$ ,  $\sigma_p$  and  $t$ , where  $\sigma$  is the selfstressed condition;  $\sigma_p$  is the stress produced by the external load and  $t$  is the temperature. Four planes, two of which are parallel and the remainder intersecting, form a wedge of the zone of possible states. When  $\sigma_p = 0$ , then the cyclic temperature effect on element 1 produces an increase of compressive deformation. The presence of constant tensile stress causes an increase of deformation due to tension with each cycle. The discussed compliance of the system subject to periodic temperature effect and made with regard to the changes in yield limit with temperature allowed the unidirectional increase of plastic deformation per cycle to be revealed. This may also explain the causes of thermal fatigue on the basis

Card 3/4

GCKHFEL'D, D. A.

PHASE I BOOK EXPLOITATION

SOV/6086

Nauchnoye soveshchaniye po teplovym napryazheniyam v elementakh turbomashin.  
2d, Kiyev, 1961.

Teplovyye napryazheniya v elementakh turbomashin; doklady nauchnogo soveshchaniya, vyp. 2 (Thermal Stresses in Turbomachine Parts; Reports of the Scientific Conference, no. 2). Kiyev, Izd-vo AN UkrSSR, 1962. 174 p. 1800 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut mekhaniki.

Resp. Ed.: A. D. Kovalenko, Academician, Academy of Sciences UkrSSR; Ed.: T. K. Remennik; Tech. Ed.: A. M. Lisovets.

PURPOSE: This collection of articles is intended for scientific workers and turbine designers.

Card 1/6

Thermal Stresses (Cont.)

SOV/6085

COVERAGE: The book contains 18 articles dealing with investigations connected with thermal stresses in turbine components. Individual articles discuss thermoelasticity, thermoplasticity, thermal conductivity, and temperature fields. No personalities are mentioned. References accompany 17 articles. The conference recommended broadening the theoretical and experimental investigations of aerothermoelastic and aerothermoplastic problems, the development of investigations of general problems of the theory of thermoelasticity and thermoplasticity based on the thermodynamic principles of reversible and nonreversible processes, the development of effective calculation methods for thermal stresses taking into account plastic deformations and creep in thin- and thick-walled structural members under stationary and nonstationary operating conditions, the development of experimental-research methods for thermometry and tensiometry in connection with modern operational conditions of mechanical structures, and the broadening of investigations of problems in the thermostrength of structures, especially of those operating under conditions of frequent and sharp temperature changes.

Card 2/6

Thermal Stresses (Cont.)

SOV/6086

- Savchenko, V. I. [Kiyev]. Investigation of Thermal Stresses in Turbine-Machine Components by the Photoelasticity Method 106
- Dinerman, A. P. [Moscow]. On the Mechanism of the Effect of Accelerated Regimes of Turbine Startups on the Efficiency of Turbine Disks 117
- Gokhfel'd, D. A. [Chelyabinsk]. Some Results of the Experimental Investigations of Adaptability to Thermal Influences 133
- Vasil'chenko, G. S. [Moscow]. Effect of the Radial Temperature Gradient on the State of Stress of Turbine Disks Operating Under Creep Conditions 141
- Fridman, L. I. [Kuybyshev]. On the Problem of Investigating Repeated Heating and Cooling 149
- Ulitko, A. F. [Kiyev]. Stationary Problem in Thermal Conductivity for a Cone 156

Card 5/6

ACCESSION NO: AP3002814

S/0207/63/003/003/0107/0110

AUTHORS: Gokhfel'd, D. A. (Chelyabinsk); Yermakov, P. I. (Chelyabinsk)

TITLE: Limits of application of thick-walled nonuniformly heated pipes

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1963, 107-110

TOPIC TAGS: thick walled pipe, pipe strength, tube strength, heated thick walled pipe, high temperature pipe application

ABSTRACT: Based upon the stress distribution in a thick-walled pipe and a temperature distribution  $t = t_0 + t_1 \frac{\ln \rho}{\ln k}$  ( $t_1 = t_0 - t_2$ ), the total stress distribution due to

pressure and temperature was derived as

$$\begin{aligned} \sigma_r &= p \left( 1 - \frac{1}{\rho} \right) + (m - q) \left( 1 - \frac{1}{\rho} + \delta \ln \rho \right) \\ \sigma_\theta &= p \left( 1 + \frac{1}{\rho} \right) + (m - q) \left[ 1 + \frac{1}{\rho} + \delta (2 + \ln \rho) \right] \\ \sigma_z &= p + 2(m - q) [1 + \delta (1 + \ln \rho)] \end{aligned}$$

where  $\left( q = t_1^0 \frac{k}{1-k}, t_1^0 = \frac{\alpha k t_1}{2\sigma_s (1-\nu)}, \delta = \frac{1-k}{k \ln k} \right)$ .



ACCESSION NO: AP3002814

Assuming that the yield stress remains constant until  $t \leq t_b$  and decreases linearly beyond this temperature, the Mises criterion leads to

$$\lambda = \frac{2(1-\nu)\sigma_y}{\sigma_y^2}$$
$$(\sigma_x - \sigma_0)^2 + (\sigma_0 - \sigma_z)^2 + (\sigma_x - \sigma_z)^2 = 2(1 - \lambda q_0 \ln p)^2$$

Combining the above equations, the equation of the surface under which the pipe does not fail was derived. This surface was found to have the shape of an elliptic cone. The outside radius of the pipe forms a cylinder in the m-p-q coordinate system so that all actual possible conditions under which the pipe does not fail lie in the volume formed by the intersection of the cone and the cylinder. Orig. art. has: 3 figures and 15 formulas.

ASSOCIATION: none

SUBMITTED: 24Dec62

DATE ACQ: 16Jul63

ENCL: 00

SUB CODE: ML, JE

NO RFP NOV: 006

OTHER: 000

KORNEIL'D, D.A. (Zhelyabinsk):

"On the accommodation of elastic-plastic bodies under the action of temperature field and external load"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

ACCESSION NR: AT4043332

S/2572/64/000/010/0137/0147

AUTHOR: Gokhfel'd, D. A. (Candidate of technical sciences); Yermakov, P.I.  
(Engineer)

TITLE: Adaptability of thick-walled spherical vessels to the recurrent effects of a temperature field.

SOURCE: Raschety\* na prochnost'; teoreticheskiye i eksperimental'ny\*ye issledovaniya prochnosti mashinostroitel'ny\*kh konstruktsiy. Sbornik statey, no. 10, 1964, 137-147

TOPIC TAGS: recurrent temperature field, stressed hollow sphere, hollow sphere, hollow sphere adaptability, yield point, elastic state area, adaptability diagram, variable pressure adaptability problem, variable temperature adaptability problem, hollow sphere

ABSTRACT: The report presents an analysis of the adaptability of a hollow sphere stressed by internal pressure and subjected to recurrent thermal influences exerted by the working medium it contains. Heating and cooling are assumed to proceed at a relatively slow rate, hence thermal shock is not considered. The solution considers the effect of temperature on yield point, other physical and mechanical characteristics being assumed constant in view of their relatively insignificant change with temperature. Operating with dimensionless magnitudes and relating stresses, in part, to values for yield point at normal temperatures, the authors develop basic equations for internal pressure stresses, temperature distribution

Card 1/2

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L 3184-66 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HM/HW

ACCESSION NR: AP5009669

UR/0135/65/000/0004/0004/0005  
621.791.011

AUTHOR: Gokhfel'd, D. A. (Candidate of technical sciences) 18  
B

TITLE: The mechanism of strain accumulation under recurrent effects of a travelling heat source

SOURCE: Svarochnoye proizvodstvo, no. 4, 1965, 4-5

TOPIC TAGS: welded pipe, joint self hardening, travelling heat source, strain accumulation pattern

ABSTRACT: The report analyzes the reinforcement of a pipe girth weld by repetitive nonpressure heating of the joint. A simplified approach, i.e. a system of identical parallel rods representing the pipe area adjacent to the weld, illustrates the feasibility of linear strain accumulating with each cycle in recurrent passes of a travelling heat source and is employed to clarify the phenomena associated with the strain selfhardening of the seam in welding. Orig. art. has: 2 figures and 17 formulas.

ASSOCIATION: Chelyabinskiy politekhnicheskiy institut (Chelyabinsk Polytechnic Institute)

Card 1/2

L 3184-66

ACCESSION NR: AP5009669

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 002

OTHER: 000

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Card 2/2

L 7074-66 EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/ETC(m) MW/EM  
ACC NR: AP5027722 SOURCE CODE: UR/0310/65/000/005/0078/0082

AUTHOR: Gokhfel'd, D. A. (Chelyabinsk)

ORG: none

TITLE: On the calculation of rotating disks in limiting states

SOURCE: Mashinovedeniye, no. 5, 1965, 78-82

TOPIC TAGS: yield stress, ultimate strength, thermal stress

ABSTRACT: A theoretical study was made to determine the limiting states of rotating disks, with failures occurring along the disk radii. The first limiting speed is obtained from equilibrium conditions and is given by

$$\omega_{01}^2 = \frac{\int_a^b \sigma_{ST} h dr}{\rho(I + \lambda F_b)}$$

$$I = \int_a^b h r^2 dr; \quad \lambda = \sigma_{rs} / \rho \omega^2; \quad F_b = h_b b;$$

where  $\sigma_{ST}$  is the yield point stress. The second limiting speed is calculated for

Card 1/2

UDC: 621.001.24

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Card 2/2

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YANPULID, I.I. (Chirchinsk)

Carrying capacity of the site under current conditions for  
population. See Appendix no. 2: 1-5. (CIA 14:17)



L 60964-65 EWA(h)/EWP(k)/EWT(d)/EWT(m)/EWN(d)/EWP(m)/EWT(v) Pt. 4/Pab

ACCESSION NR: AP5017124

EM/WW

UR/0198/65/001/006/0026/0032

53  
21  
8

AUTHOR: Gokhfel'd, D. A. (Chelyabinsk)

TITLE: Progressive destruction under conditions of thermal cycling

SOURCE: Prikladnaya mekhanika, v. 1, no. 6, 1965, 26-32

TOPIC TAGS: temperature distribution, pressure distribution, mechanical strength, elastic deformation, plastic deformation, cyclic rate

ABSTRACT: The conditions under which progressive destruction of a structure can be attained, were analyzed. Exact conditions are derived for progressive destruction under cyclic thermal and pressure loadings. The case of a spherical shell is discussed first. The temperature distribution in the shell is given by

$$T = T_0 + \frac{k(1-q)}{q(1-k)}(T_1 - T_0)$$

Expressions are given for the radial and azimuthal stress limit points, and the Mises Tresk-San-Venan plasticity condition is introduced

$$\sigma_r - \sigma_\theta = \pm 1$$

It is shown that for the sphere the radius  $\rho$  which divides the failed region from

L 60964-65

ACCESSION NR: AP5017124

the undeformed region is given by  $\gamma = \sqrt{\delta}$  where

$$\delta = \frac{3k^2}{1+k+k^2}$$

Using statistical conditions for the stress distribution, the following exact conditions are derived as conditions for progressive destruction

$$\frac{P}{P_0} + D \frac{q}{q_0} = 1,$$

$$D = \frac{2k^2(\delta^2 - 3\delta + 2\sqrt{\delta})}{3\delta(k^2 - \delta) \ln k}$$

As a second example, a thick-walled tube is considered with temperature distribution

$$T = T_b + \frac{\ln q}{\ln k} (T_a - T_b)$$

The corresponding dividing radius and progressive destruction conditions are given by  $\gamma = \frac{1}{\sqrt{\delta}}$  and

Card 2/3

L 60964-65

ACCESSION NR: AP5017124

$$\frac{p}{p_0} + D \frac{q}{q_0} = 1,$$

$$p_0 = \frac{1}{2\delta}; \quad q_0 = \frac{k^2}{1-k^2\delta}; \quad D = \frac{1-\delta + \delta \ln \delta}{(k^2\delta - 1) \ln k}$$

respectively. Numerical examples are given to illustrate the points. For an additional axial force on hollow cylindrical rods the following is obtained as the radius dividing the region of elastic failure from the undeformed region

$$r = \exp \frac{1-\delta}{2\delta}$$

Orig. art. has: 19 formulas and 4 figures.

ASSOCIATION: Chelyabinskiy politekhnicheskii institut (Chelyabinsk Polytechnical Institute)

SUBMITTED: 04Oct64

ENCL: 00

SUB CODE: .E, AS

NO REF SOY: 005

OTHER: 002

Card 3/3 *hjp*

SCHNEFLID, S.A., unclassified.

Strength reduction under repeated actions of a temperature field and loading. Tech. report, no. 11:809-109, 1965.

(NDA 19:1)

L 25836-66 EWT(m)/EWP(w)/EWA(d)/EWP(v)/T-2/EWP(t)/EWP(k)/ITE(m).6 LIP(c)

ACC NR: AP6008700 JD/EM (N) SOURCE CODE: UR/0380/65/000/006/0061/0068

AUTHOR: Gokhfel'd, D. A. (Chelyabinsk)

ORG: none

TITLE: Turbine disk strength during transient working regimes

SOURCE: Mashinovedeniye, no. 6, 1965, 61-68

TOPIC TAGS: turbine disk, turbine rotor, thermal stress, computer, alloy/  
ETsVM Ural-2 computer, EI437B alloy

ABSTRACT: The thermal and centrifugal stresses which arise during transient operation of turbine disks are considered in order to provide a method for realistically calculating the disk strength. The equations of stress are briefly formulated, and the two modes of failure, namely, local fatigue due to alternating sign plastic flow and progressive destruction due to residual stress accumulation, are discussed in some detail. An equation is derived for the limit curve in the  $p/p_0 - q/q_0$  coordinates (where  $p = \rho\omega^2 b^2 / \sigma$ , is the loading parameter, and  $q = \alpha E T_1 / \sigma$ , is the temperature field parameter, and  $p_0$  and  $q_0$  are reference values), and a sample curve is given for a plane disk operating under assumed transient speed and temperature conditions. The author's previous work (K raschety vrashchayushchikh diskov po predel'nomu sostoyaniyu. Mashinovedeniye, 1965, No. 5) is used in the arguments. The

Card 1/2

UDC: 62-226

L 25836-66

ACC NR: AP6008700

use of two coefficients of strength margin, one for local and one for overall disk strength, is recommended, and an example is quoted for an alloy EI437B disk. Because of the large number of calculations required for obtaining the limit curve, the equations were programmed for an ETsVM "Ural-2" computer. Orig. art. has: 18 formulas and 4 figures.

SUB CODE: 13/ SUBM DATE: 26Feb65/ ORIG REF: 008/ OTH REF: 001

Card 2/2

17(2)

SOV/17-86-11-0/50

AUTHORS: Barskiy, B.I., Colonel of the Medical Corps, Candidate of Medical Sciences; Blyumberg, H.A., Candidate of Medical Sciences; and Gokhfel'd, E.T.

TITLE: Certain Features of the Clinical Course of Acute Hepatitis

PERIODICAL: Voenno-meditsinskiy zhurnal, 1958, Nr 11, pp 23 - 25 (USSR)

ABSTRACT: The author bases his article on the analysis of 200 case reports of patients suffering from acute hepatitis (Botkin's disease) and refers to data of Pashutin, M.D. Tushinskiy, M.Ye. Vol'skiy, M.A. Yasinovskiy, A.S. Berlyand, A.A. Gol'denshteyn, G.I. Altukhova, G.I. Burchinskiy, M.I. Teodori, M.I. Yakubovich, M.K. Tarlo, F.V. Terenchenko, M.A. Yasinovskiy, G.I. Alkhusova, M.Ye. Vol'skiy, A.L. Myasnikov, K.P. Zak, I.A. Eskin, Ye.M. Tarayev, I.P. Pavlov, M.K. Petrova, O.I. Moiseyeva and others. In cases with usual or average acuteness of Botkin's

Card 1/2

SOV/197-58-11-1/11

### Certain Features of the Clinical Course of Acute Hepatitis

disease, in some patients a trend to eosiphilia was obvious, whereas in serious forms of this disease a reverse phenomenon - a drop of eosinophiles up to aneosinophilia - was observed. Data on three patients are given which point to a considerable leukocytosis in the period of the development of the leukemoid reaction which was accompanied by pronounced eosinophilia, lympho- and monopenia and increased E.S.R. Relapses of acute hepatitis of toxic-allergic character are often caused by aggravation of chronic tonsillitis. The author criticizes the fact that physicians seldom take into account the effect of a local focus on the pathogenesis of acute hepatitis and its relapses so that the treatment is not always rational. He thinks a well timed healing of local suppurative foci in the complex treatment a good prophylactic measure against recidivation. There is 1 table.

Card 2/2



BARSKIY, B.I., kand.med.nauk, KRSTIC, L.S., kand.med.nauk, BLYUMBERG, N.A.  
Kand.med.nauk., GOKHFELD, B.T. (Moskva)

Antibiotic treatment of cholecystitis in young subjects.

Klin.med. 36 no.11:148-151 N '58 (MIRA 11:12)

(CHOLECYSTITIS, ther.

antibiotics in young subjects (Rus))

(ANTIBIOTICS, ther. use

cholecystitis in young subject (Rus))

MEN'SHIKOV, A.; GOKHFEL'D, I.

Transmitting duties of technical councils to sections of the scientific technological society. NTO 2 no.3:45-46 Nr '60.  
(MIRA 13:6)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva zavoda "Bol'shevik" (for Men'shikov). 2. Uchenyy sekretar' soveta Nauchno-tekhnicheskogo obshchestva, Leningrad (for Gokhfel'd).  
(Leningrad--Machinery industry--Technological innovations)

S/C56/62/043/001/027/C56  
B104/B102

AUTHORS: Meyman, N., Gokhfel'd, I.

TITLE: Solution of equations of the Chew-Mandelstam type

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,  
no. 1(7), 1962, 181 - 184TEXT: The amplitude  $A(v)$  of the interaction of neutral mesons satisfies the equation

$$A(v) = A(0) + \frac{1}{\pi} \int_0^{\infty} \sqrt{\frac{v'}{1+v'}} \left( \frac{1}{v'-v} - \frac{1}{v'} \right) |A(v')|^2 dv' + \frac{2}{\pi} \int_{-\infty}^{-1} \left( \frac{1}{v'-v} - \frac{1}{v'} \right) \frac{dv'}{v'} \int_0^{-v'-1} \sqrt{\frac{v''}{1+v''}} |A(v'')|^2 dv'' \quad (1)$$

in the theory of Chew-Mandelstam (UCRL-8728, April 1959).  $v = q^2/\mu^2$ ;  $q$  is the momentum in the c.m.s. The function  $A(v)$  is investigated in the complex plane of  $v$  with the two sections  $(-\infty; -1)$  and  $(0; +\infty)$ . It is

Card 1/2

Solution of equations of the...

S/056/62/043/001/027/056  
B104/B102

assumed that  $A(v)$  is limited for  $v \rightarrow \infty$ . The equation only has a non-oscillating solution at infinity in the cases which have no physical sense (when the coupling constant is negative). This result is obtained from the general properties of analytical functions and should be of some methodical importance. There are 4 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

SUBMITTED: January 27, 1962

GOKHFEL'D, M.V.

Automatization of mine conveyer lines. Sbor.nauch.trud. KHGI 5:49-64  
'58. (MIRA 14:4)

(Conveying machinery)  
(Automatic control)

MAYMIN, Semen Rafailovich; POLTAVA, Leonid Ivanovich; GOKHEZEL'D, N.V.,  
dots., otv. red.; TRET'YAKOVA, AN., red.; SEMASHKO, Yu.Yu.,  
tekhn. red.

[Electric substations and networks on mine surfaces] Pod-  
stantsii i seti na poverkhnosti rudnikov. Khar'kov, Izd-vo  
Khar'kovskogo univ. 1961. 255 p. (UIRA 16:7)  
(Electricity in mining)  
(Electric power distribution)

GOKHLER, G.M. (Tashkent); OMELIN, N.N. (Tashkent)

Use of deep well pumps. Vod. i san. tekhn. no. 4:37-38 Ap '61.

(MIRA 14:4)

(Kibray (Uzbekistan)--Pumping machinery)  
(Water--Supply engineering)

GOKHLER, G.S.

The shape of eggs of the tapeworm *Diphyllobothrium latum* in a fresh preparation. Lab. delo 2 no. 6:26-27 N-D '56. (MIPA 9:12)  
(TAPEWORMS) (EMBRYOLOGY)



GLAZERNEA, Galina Borisovna; R.I.L.V., I., I., Mosk. med. nauk,  
red.

[Sanitary culture to the masses: Educational visual aid  
on the methodology of sanitary culture] Sanitarnaya kul'tu-  
ra - v masovykh uchebno-nauchnykh porokh po metodike sa-  
nitarnogo prosveticheniya. Moskva. In-t sanitarnogo pro-  
sveticheniya N-va mirovskhramen Ia SSSR, 1963. 30 p.  
(SIA 198)

BIRYUKOV, D.A., prof.; SMORODINTSEV, A.A., prof.; SELIVANOV, A.A.,  
kand. med. nauk, starshiy nauchnyy sotrudnik; IL'IN, G.I., kand.  
med. nauk; FIGAREVSKIY, V.Ye., doktor med. nauk; GOKHLERHER, G.,  
vrach

Grippe. Nauka i zhizn' 30 no.4:72-78 Ap '63. (MIRA 16:7)

1. Direktor Instituta eksperimental'noy meditsiny AMN SSSR,  
Leningrad, deystvitel'nyy chlen AMN SSSR (for Biryukov).
2. Otdel virusologii Instituta eksperimental'noy meditsiny  
AMN SSSR, Leningrad (for Selivanov).
3. Otdel patologicheskoy  
anatomii Instituta eksperimental'noy meditsiny AMN SSSR,  
Leningrad (for Il'in).

(INFLUENZA RESEARCH)

GOKHLERNER, G.B. (Moskva)

Sanitary education as a part of ideological work, Fel'd i akush.  
28 no.1:26-30 Ja'63. (MIRA 16:7)

1. Iz Tsentral'nogo instituta sanitarnogo prosveshcheniya.  
(HEALTH EDUCATION) (COMMUNIST EDUCATION)

GOKHLERNER G. V.

USSR/Medicine - Antibiotics

Mar 51

"V. A. Manassein (1841 - 1901)," G. V. Gokhlerner

"Klin Med" Vol XXIX, No 3, pp 15-18

Reviews life and activity of Prof V. A. Manassein, who according to author discovered action of antibiotics and applied newly discovered principle practically. Cites paper, "On the Relation of Some Bacteria to Penicillium Crustaceum and the Effect of Some Agents on the Development of the Latter" publ by Manassein in late 1860's.

181T53

GOKHLERNER, G., vrach

About salt. Nauka i zhizn' 29 no.9:76 S '62, (MIRA 15:10)

(SALT IN THE BODY)

GOKHMAN, A.I. (Kiev)

Clinical use of a porous rubber sponge, a new alloplast. Vrach.delo  
no.12:1337-1339 D '57. (MIRA 11:2)

1. Khirurgicheskoye otdeleniye (zav. - A.I.Gokhman) Vtoroy Podol'skoy  
bol'nitsy  
(SURGERY, PLASTIC)

L 61056-65 EPP(c)/EPA(s)-2/EWP(j)/EWT(m)/T Pc-l/Pr-l/Ps-l RU/WA

ACCESSION NR: AP5017878

UR/0286/65/000/011/0130/0130  
629.132

AUTHOR: <sup>4455</sup>Gokhman, A. Kh.; <sup>4455</sup>Spitsyn, I. P.; <sup>4455</sup>Konstantinov, L. I.; <sup>4455</sup>Matinov, Y. M.;  
<sup>4455</sup>Vaynshteyn, G. M.; <sup>4455</sup>Polyanker, A. G.

47  
5

TITLE: Dirigible hull. Class 62, No. 171738

SOURCE: Byulleten' izobreteniy i tovarnykh znakov. no. 11, 1965, 130

TOPIC TAGS: dirigible, dirigible hull, dirigible hull construction

<sup>4455</sup>ABSTRACT: An Author Certificate has been issued for a dirigible hull featuring in-  
creased rigidity and uniform distribution of stresses. It is composed of rhombic  
panels fabricated from a foam plastic filler sandwiched between fiberglass walls  
(see Fig. 1 of the Enclosure). The panels are individually fastened together and  
have reinforced edges. Orig. art. has: 1 figure. [RT]

ASSOCIATION: none

SUBMITTED: 26Aug63

ENCL: 01

SUB CODE: AC, 47

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4060

Card 1/2

L 61056-65

ACCESSION NR: AP5017878

ENCLOSURE 01

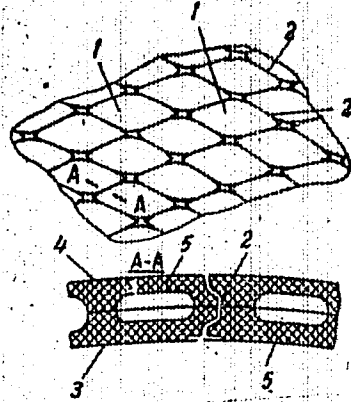


Fig. 1. Fiberglass and foam-plastic dirigible hull

- 1 - Rhombic panels; 2 - edges for connecting the panels; 3 - inner fiberglass-hull wall;
- 4 - outer fiberglass-hull wall; 5 - foam-plastic filler.

Card <sup>KC</sup> 2/2



3875  
S/114/62/000/001/003/006  
E194/E435

26.2122

AUTHOR: Gokhman, A.M., Engineer

TITLE: Calculation of a straight row of solid profiles by the method of singularities with the angle of attack

PERIODICAL: Energomashinostroyeniye, no.1, 1962, 23-28

TEXT: In work on the flow of an ideal fluid over a straight row of profiles, it is assumed that the profile forms a closed stream line with two branching points, one at inlet and the other at discharge. Flow around the profile is potential. The effect of the profile on the flow is represented mathematically by considering it to contain singularities, namely curls of  $\gamma$  and sources and sinks of  $q$ . The sum of the intensities of all the swirls is equal to the circulation  $\Gamma$  which should be introduced into the flow by the profile and the sum of the intensities of all sources and sinks is zero. For convenience, the singularities are located along a line of length  $L$ . The curls are expressed in the form of a series

$$\gamma(z) = A_0 \sqrt{\frac{1+z}{1-z}} + A_1 \sqrt{1-z^2} + A_2 \sqrt{1-z^2} \dots, \quad (1)$$

Card 1/6

S/114/62/000/001/005/006  
E194/E435

Calculation of a straight row ...

where  $s$  is the distance along the line of singularities (at inlet  $s = l/2$  and at discharge  $s = -l/2$ ). Hitherto, a requirement that is incorrect in principle has been applied to the line of singularities (referred to as the framework of the profile) which states that there is no flow through any of the points on the line, i.e.  $W_n^l + W_n^r = 0$  (see Fig.1), where  $W_n^l = 0.5q$  and  $W_n^r = -0.5q$  are normal velocities corresponding to the working and rear sides of the line. In previous work it was also assumed that the sum of the sources and sinks being zero is a necessary and sufficient condition for the existence of a closed streamline round the framework. It is shown that this is erroneous. The idea stems from the belief that it is possible, without a break, to extend the framework along the streamline leading from point A to point K (see Fig.2), thus dividing the profile into a working and rear cavities without flow through from one to the other. The article shows that this is not possible and that there will be a flow of magnitude  $\Delta Q_x$ . In deriving new necessary and sufficient conditions for the existence of a closed streamline round the framework, the meaning of the term framework is redefined

Card 2/6

Calculation of a straight row ...

S/114/62/000/001/003/006  
E194/E435

so that it constitutes a section of the line on which the singularities are distributed and on which a flow through is possible at any point, in contrast to the previous assumptions. The new conditions then are: 1) that a series of connected curls should satisfy Chaplygin's condition that  $\gamma = 0$  when  $x = -1.00$ ; 2) a point source located at the point  $x = 1.00$  should have an intensity of  $Q_0^* > 2\Delta Q_x$  or should be taken out to the point tangential to its extension  $x_1 > 1.00$ ; 3) in every point in the framework  $x \left[ -1 < x \leq 1 + \epsilon \right]$

$$\frac{1}{2} \left[ \int_{-1}^{1+\epsilon} q(x) dx + Q_0^* \right] - \left[ \int_{-1}^{1+\epsilon} \bar{w}_y dx + \Delta Q_x \right] > 0. \quad (7)$$

4) the sum of all sources and sinks is zero; 5) denote by  $x_2 = -1 - \rho_2^*$  the coordinate of the point of intersection of the tangent with the extension at discharge from one of the branches bifurcated at point  $K_2$  of the streamline and denote by  $\Delta Q_{x_2}$  the flow through this extension, then

Card 3/6

Calculation of a straight row ...

S/114/62/000/001/003/00  
E194/E135

$$\int_{-1-\alpha_2}^{1-\alpha_1} \bar{w}_y dx + \Delta Q_x + \Delta Q_{\alpha} = 0 \quad (9)$$

(9) the distributed sources and sinks in the region  $x = -1.00$  should agree with the condition  $q(x) < 0$ . In the case where the first term of Eq.(1) is missing, i.e.  $\gamma = 0$  when  $x = 1.00$ , it is possible to ignore the value  $\Delta Q_x$  but when this first term is included, i.e. the angle of attack is included, the value of  $\Delta Q_x$  has a significant magnitude and must be considered. In practical examples it is convenient to evaluate  $\bar{w}_y$  (the rate of overflow through the framework at the point  $x = 1.00$ ) from a series

$$\bar{w}_y = c_1 + c_2x + c_3x^2 + c_4x^3 \quad (11)$$

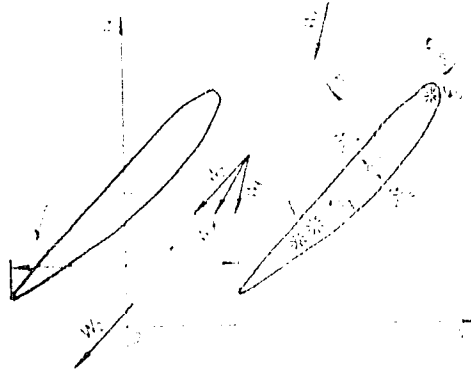
of which the coefficients should correspond to the conditions expressed by Eq.(9). Fig.6 shows the profile of a blade for a high head axial rotor turbine runner and a pressure diagram over the profile. This blading was designed with  $\bar{w}_0 = 0.517$  and Card 4/6

Calculation of a straight row ...

S/114/62/000/001/003/006  
E194/E455

$l/t = 1.00$  which gives a less bent profile than would be obtained without consideration of the angle of attack. The discharge part of the profile is less heavily loaded which should reduce the tendency to cavitation. The method described is suitable for use in designing the runners of high head water turbines. There are 6 figures.

Fig.1. Upright grid of body profiles.



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CIA-RDP86-00513R000515610003-0  
CIA-RDP86-00513R000515610003-0"

(CIPA 18:10)

1986

GOKHMAN, A. V., *Journal of Pure and Applied Mathematics* -- (114) "Kegomnaya nonhomologous  
Geometry," Saratov, 1978, 6 pp (Saratov State Univ in Saratov-vesty)  
(XL, 2-83, 119)

16(1)

AUTHOR: Ponomarev, A. V.

SOV. MATH. 1959, 14

TITLE: On the Inner Geometry of the Rheonomic Non-Holonomic Space

PERIODICAL: Doklady Akademii Nauk SSSR, 1959, Vol. 119, No. 1, pp. 135-138 (USSR)

ABSTRACT: The author considers a space in which the motion equations of a point are identical with the motion equations of a mechanical system with rheonomic constraints. The author finds a theorem of inner-geometrical properties, which partly repeats the results of A. Wunderlich [Ref. 1] are repeated. There are 3 references, 1 of which is Soviet, and 1 Czechoslovakian.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet imeni N. I. Zhukovskogo (Saratov State University imeni N. I. Zhukovskiy)

PRESENTED: January 27, 1959, by I. G. Petrovskiy, Academician

SUBMITTED: January 26, 1959

Card 1/1



GCKHMAN, A.V.

Internal Geometry of Riemannian spaces. Izv. vys. uchob. zav.; ...  
mat. no. 3:14-26 '61. (MIRA 14:7)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.  
Chernyshevskogo.  
(Geometry, Non-Euclidean)

13515  
S/146/62/000/006/001/006  
EG31/E435

AUTHOR: Gokhman, A.V.  
TITLE: On the geometrization of mechanical systems with  
rheonomous nonlinear, nonholonomic constraints  
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika.  
no.6, 1962, 34-44

TEXT: The motion of a mechanical system of the above type  
corresponds to a curve in a full rheonomous space  $T_{n+1}$  [in  
which the energy has the form:

$$T = \frac{1}{2} * a_{\bar{\alpha}\bar{\beta}} \dot{\bar{x}}^{\bar{\alpha}} \dot{\bar{x}}^{\bar{\beta}} \quad (\bar{\alpha}, \bar{\beta} = 1, 2, \dots, n+1)$$

with metric tensor  $* a_{\bar{\alpha}\bar{\beta}}$ , at each point of which the tangent  
vector  $\dot{\bar{x}}^{\bar{\alpha}}$  satisfies a system of independent nonlinear equations  
in the generalized velocities, representing the constraints.  
Geometrically, the theory of these mechanical systems can be  
constructed if with the field of local force m-surfaces  
corresponding to the constraints there is associated a field of  
local force hyperstrips. The field theory of local hyperstrips  
Card 1/2

On the geometrization ...

5/146/62/500/006/001/006  
EO31/E435

was constructed by V.V.Vagner (Tr. sem. po vekt. i teoz. analizu, no.8, 1950, 197-272) and a considerable part of this paper is devoted to recapitulating the theory. On considering the motion of a point in  $T_{n+1}$  Zhurden's (Jourdain) principle is used as a starting point. Geometrically, this principle states that the projection of the acceleration vector on the tangent plane to the constraint surface is equal to the projection of the force vector on the same plane. The equations of motion for the system are derived and it is shown that the same equations can be obtained starting from the Gauss-Hertz principle which in the present context states that a certain function of the acceleration has the least value.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet  
im. N.G.Chernyshevskogo (Saratov State University  
iment N.G.Chernyshevskiy)

SUBMITTED: November 23, 1959

Card 2/2

S/0140/64/000/001/0028/0039

ACCESSION NR: AP4018047

AUTHOR: Gokhman, A. V. (Saratov)

TITLE: Geometric interpretation of the motion of a variable mass mechanical system

SOURCE: IVUZ. Matematika, no. 1, 1964, 28-39

TOPIC TAGS: variable mass mechanical system, scleronomic holonomic system, nonholonomic relation, transformation of parameters, geometrization of mechanical system, Riemann space, covariant tensor, rheonomic space

ABSTRACT: The author proposes a geometric interpretation of the motion of a system with mass depending on time, and of the position of the system as a point of unit mass in a space which is a special case of so-called rheonomic space. Geometric interpretation of the motion of a mechanical system consists of constructing a geometric space for it (an  $n$ -dimensional manifold on a definite structure), the equations of motion of a point of which coincide with the equations of motion of this system. The geometric space must be such that the allowable transformations of its coordinate systems correspond to the allowable transformations of the parameters characterizing the motion of the mechanical system. Then the equations

ACCESSION NR: AP4018047

of motion of a point in this space, described in tensor or another invariant form,  
will be invariant with respect to transformations of the parameters of the system.  
Orig. art. has: 62 formulas.

ASSOCIATION: none

SUBMITTED: 12Feb63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: AI

NO REF SOV: 011

OTHER: 013

Card 2/2

L 48574-65

EWI(m)/EWP(w)/EWA(d)/EWP(v)/EWP(k) PE-4 EM

ACCESSION NR: AR5009490

S/0124/65/000/003/VD43/VD43

SOURCE: Ref. zh. Mekhanika, Abs. 3V323

AUTHOR: Gokhman, A. V.

TITLE: The geometry of beam column statics

CITED SOURCE: Tr. molodykh uchenykh. Saratovsk. un-t. Vyp. uratom. Saratov, 1964, 11-18

TOPIC TAGS: beam column balance, differential geometry, thin rod

TRANSLATION: Equilibrium equations for a thin rod with variable flexural and torsional rigidities, produced by a distributed momentary load, are interpreted from the standpoint of differential geometry. Conditions are given under which the equations of equilibrium for a thin rod coincide with the equations describing the unit velocity motion of a unit mass point in a four-dimensional quasi-rheonomic space. Bibl. with 7 titles. - L. A. Tolokonnikov

SUB CODE: AS

ENCL: 00

Card 1/1

FENZOV, YuYe.; KUZNEKHINA, N.F.; GOKHMAN, A.V.; KABANOV, N.I.; K. NITILEVA,  
Yu.K.; LOSIK, M.V.; SPIVAK, M.A.; ZABENKAYA, N.T., red.

[Problems in vector algebra] Sbornik zadach po vektornoi  
algebra. Saratov, Izd-vo Saratovskogo univ., 1964. 69 p.  
(MIRA 18:4)

GOKHMAN, B.M., Gornyy Inzh.

Standardization of thermal conditions in deep workings of hydraulic  
mines. Ugol' 39 no.9:91-93 S 124. (MIRA 17:10)



GOKHMAN, D.B., Inzh.; TAGANIN, A.I., Inzh.

Gas turbine power systems for aircraft  
№ 137-32 D 163.  
(MIRA 27:1)

L 2481-66 ENT(d)/EPA/ENT 1)/ENP(r)/EPF(n)-2/EMP(v)/T-2/ENP(k)/EMP(h)/EMP(1)/ETC(m)

ACCESSION NR: AP5024367

UR/0286/65/000/015/0035/0035

621.165-567.5

621.438-567.5

AUTHOR: Gokhman, D. B.; Feygin, V. L.

TITLE: A device for compensating for axial stresses in turbomachines. Class 14,  
No. 173247

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 35

TOPIC TAGS: axial stress compensation, gas turbine, compressor, labyrinth packing

ABSTRACT: An Author Certificate has been issued for a device for compensating for axial stresses in turbomachines, e.g., gas turbines and compressors. The device contains a balancing piston and end packing which, with the casing, forms an intermediate cavity filled with the working medium which is drained off into a lower-pressure area. To increase reliability and to simplify the design, the piston is sectionalized in the form of several disks serving as the components of the radial labyrinth packing mounted on the shaft end. Within the casing, a shaped fitting is rigidly mounted over the inlet to the labyrinth packing, thus forming a cavity within the piston for feeding the working medium (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [LB]

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut im. I. I. Polzunova (Central Boiler and Turbine Institute)

Card 1/3

L 2481-56

ACCESSION NR: AP5024367

SUBMITTED: 29Dec63

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4104

0

L 2481-66

ACCESSION NR: AP5024367

ENCLOSURE: 01

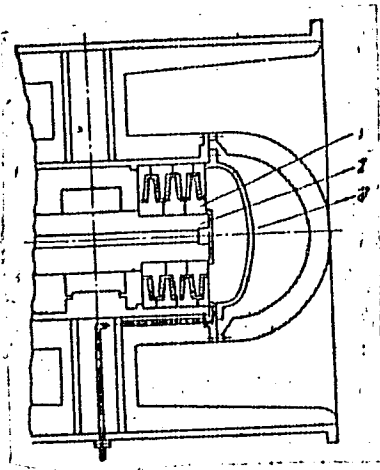


Fig. 1. Stress compensator

1 - Balancing piston; 2 - turbine shaft; 3 - shaped fitting.

BVK

Card 3/3

SOV/44-38-1-2820

Translation from: Referativnyy zhurnal, Matematika, 1958,  
Nr 4, p 41 (USSR)

AUTHOR: Gokoman, E. Kh.

TITLE: On One Derivation of a Formula of Integration by Parts  
for Stieltjes Integrals (Ob odnoy vyvode formuly in-  
tegrirovaniya po chastyam dlya integralov Stilt'yesa)

PERIODICAL: Tr. Odessk. tekhnol. in-ta, 1957, Nr 8, pp 13-16

ABSTRACT: It is shown that if in the determination of the  
elementary Stieltjes integral the usual limits of the in-  
tegral sums are replaced by their limits according to  
Shatunovskiy, then for an integral generalized in this way,  
the formula of integration by parts remains correct.

P. I. Romanovskiy

Card 1/1

GOKHMAN, I.I.

Materials on the anthropology of the ancient population of the lower reaches  
of the Selenga River. Krat.sob.Inst.etn. 20:59-67 '54. (MIRA 7:6)  
(Selenga Valley--Man, Prehistoric) (Man, Prehistoric--Selenga Valley)

BOHMAN, I. I.

"The size of the... at the..."

... ..

ALBESBEYEV, V.F.; GINZBURG, V.V.; GUEHMAN, I.I.

In memory of Natalia Grigor'evna Levin, 1906-1993, *Prilozheniye*,  
Zhurn. i obrat. 40 no. 6:128-131 My '64. (NIRA 12:1)



ZAYTSOV, Khaim Pinkhusovich; MACHEKOVSEIY, Abram Isaakovich; GOKHMAN, I.S.,  
red.; DASHNEVSKIY, Ya.I., red.; KHUTORSKAYA, Ye.S., red.izd-va;  
ISLENT'YVA, P.G., tekhn.red.

[Organization and planning of operations in sintering plants]  
Organizatsiia i planirovanie proizvodstva na aglomeratsionnykh  
fabrikakh. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po cherno  
i tsvetnoi metallurgii, 1959. 204 p. (MIRA 12:1)  
(Sintering)

ROCHMAN, I.S., INDIAN, S.S.

Methods of evaluation scrap in calculating the efficiency of  
capital investments in ferrous metallurgy. *Izv. vuzov, Tekh.  
tehn. ekon. Iskl.* INDIAN S.S. 1979 No. 1, 108-110.

MEMORANDUM FOR THE DIRECTOR

Considering the time factor in determining the economic efficiency of the proposed project, it is recommended that the project be approved for funding.

OSHMAT, I.S.; YAZKOV, V.B.

Comparison the technical and economic indices of the open-hearth  
and converter processes operating with an oxygen blow. (Sov.  
trua.Obi, tekhn.ekonom. inzh. TSNICHM no. 1:43-55 '65.  
(MIRA 1744)

1. The first part of the document discusses the importance of maintaining accurate records of all activities and the need for a systematic approach to data collection and analysis. It emphasizes the role of the research team in ensuring the integrity and reliability of the information gathered.

2. The second part of the document details the specific methods used for data collection, including interviews, observations, and document analysis. It provides a clear description of the procedures followed to ensure consistency and accuracy in the data gathered.

3. The third part of the document discusses the analysis of the collected data, highlighting the various techniques used to identify patterns and trends. It also addresses the challenges faced during the analysis process and the steps taken to overcome them.

4. The fourth part of the document presents the findings of the study, including a summary of the key results and their implications. It also discusses the limitations of the study and the need for further research in this area.

5. The final part of the document provides a conclusion and a list of references. It summarizes the overall findings and offers recommendations for future research. The references cited include various academic journals, books, and other sources used in the study.

GOKHPAN, I. N., (1910-1980), P. 1

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NEPA (1980)

GOFFMAN, L.W.; MELINA, I.A.; ANTONYUKA, S.I.

Analysis of technical and economic indicators of open-blow  
converter steel production at the plant A for 1963. Stet.  
trud. ENELIOM no.49:76-84. 1-65. (NCF 18:4)

GOKHMAN, M. B.

USSR/Physics - Photoelements, AgS

Mar/Apr 52

"Some Technical Applications of the Silver-Sulfide  
Photoelements FESS-U," Ye.G. Miselyuk, M.B. Gokh-  
man; Inst of Phys, Acad Sci Ukrainian SSR

"Iz Ak Nauk, Ser Fiz" Vol XVI, No 2, pp 227-229

Authors developed a photo-relay for remote control  
of safety equipment for presses with half-open  
dies and for automatic equipment cutting clay  
masses for production of ceramic objects.

220T98\_\_\_\_\_



MISELYUK, B.G.; GOKHMAN, M.B.

Photoelectric automatic blocking device for presses with open  
and half-open FEB-1 dies. Avtomatyka no.1:94-95 '87. (MLRA 10:5)

1. Institut fiziki AN URSR,  
(Automatic control) (Power presses)

GOKHMAN, M.L.

Single-phase motors are required for longitudinal supply of energy when alternating current is used. Elek.i topl. tiaga 3 no.9:16-17 S '59. (MIRA 13:2)

1. Rukovoditel' brigady energosnabzheniya Khargiprotrasa.  
(Electric railway motors)

GOKHEMAN, M.L.

Planning longitudinal electric power supply for railroad tracks.  
Transp. s. tref. 14 no.9:37-38 S '64 (MIRA 18:1)

1. Fakoveditel' brigady elektromekhanika Khar'kovskogo pro-  
yektino-izyskatel'skogo instituta.

SCHEWETVINKIN, A. A., *born*. (Rear adm.; SOEMM, U.S.S.R.) (Rear adm.)

Automatic control of fueling diesel engines. *U.S.S.R. Techn. J. of Mech. Engrg.* 1974, 10(6):44-45. 25.