ANDRIANOV, V.M.

Problem of selecting the most economical raw material for pyrolysis. Khim. i tekh. topl. i masel 8 no.7:44-48 Jl '63. (MIRA 16:7)

1. TSentral'nyy nauchno-issledovatel'skiy ekonomicheskiy institut Gosplana RSFSR.
(Pyrolysis) (Gasoline)

ANDRIANOV, V.M.

Effect of the degree of the yield of light petroleum products on the level of the optimum capacity of petroleum processing plants (discussion). Khim. i tekh. topl. i masel 9 no.2:42-48 F '64. (MIRA 17:4)

SOV/24-58-5-8/31

AUTHORS: Andrianov, V. N. and Shorin, S. N. (Moscow)

TITLE: Radiant Heat Exchange in a Current of Radiating Medium (Luchistyy teploobmen v potoke izluchayushchey sredy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 5, pp 46-53 (USSR)

ABSTRACT: In high temperature heat exchange devices heat transfer by radiation plays an important role. In a number of papers (Refs 1-6) this problem was considered assuming a uniform distribution of temperatures and velocities over the cross-section of the current; V. I. Pukhov (Ref 5) does assume uniform distribution across the cross-section of the speed but not of the temperature. The present paper presents an attempt to solve this problem taking into account non-uniform distribution of velocities and temperatures over a cross-section of a current of a radiating medium in the case of cylindrical and plane channels. The corresponding differential equation is solved under the assumptions that the medium is purely absorbing, the scattering coefficient equals zero, and the radiant heat transfer between elements of the medium within its volume can be

Card 1/2

Radiant Heat Exchange in a Current of Radiating Medium

neglected. The absorption coefficient of the medium is assumed to be constant. Explicit expressions are derived for the above two cases and the results are summarised in five graphs.
There are 7 figures and 8 references, 6 of which are Soviet, 1 German, 1 French.

SUBMITTED: February 18, 1958

ANDRIANOV, V.N., kand.tekhn.nauk; SHORIN, S.N., doktor tekhn.nauk

Investigation of heat exchange in the gas-combustion chamber. (MIRA 12:3)
Teploenergetika 6 no.4:62-67 Ap '59.

1. Energeticheskiy institut AN SSSR.
(Combustion research)

ANDRIANOV, V.N.

New data on the Permian stratigraphy of the central part of the western Verkhoyansk Range. Mat.po geol.i pol.iskop.IAk.ASSR no.5:51-57 '61. (MIRA 15:7)
(Verkhoyansk Range--Geology, Stratigraphic)

L 11548-66 EWT(d)/EWP(k)/EWP(1) JT

ACC NR: AP6005028 SOURCE CODE: UR/0105/65/000/001/0091/0091

AUTHOR: Ayvaz'yan, V. G.; Aleksandrov, B. K.; Andrianov, V. N.; Beschinskiy, A. A.; Budzko, I. A.; Zhimerin, D. G.; Krasnov, V. S.; Kruzhilin, G. N.; Kulebakin, V. S.; Listov, P. N.; Markvardt, K. G.; Markovich, I. M.; Popkov, V. I.; Styrikovich, M. A.

ORG: none

TITLE: Professor Andrey Georgiyevich Zakharin

SOURCE: Elektrichestvo, no. 1, 1965, 91

TOPIC TAGS: electric power engineering, electric engineering personnel

ABSTRACT: A short biography of subject on the occasion of his 60th birthday in November 64. A close disciple of Krzhizhanovskiy, he now heads sector of general methodological problems and forecasting at ENIN (Institute of Power Engineering imeni Krzhizhanovskiy), and power engineering section within its scientific council. In 1927-1932, worked in designing and construction of power stations and industrial power installations in the Trans-Caucasus. In 1932, having graduated as electrical engineer from Tbilisi Polytechnical Institute, he switched to scientific work at All-Union Institute of Farm Electrification, and at ENIN since 1944. Became candidate of technical sciences in 1937; doctor, in 1948. Subject is credited with working out the methods for designing efficient and economical regional and local power systems, utilizing local power resources and coordinating them with the power grids. He participated in studies on electrification through 1980, and on

UDC: 621.31:(0,75.5)

Card 1/2

L 11548-66

ACC NR: AP6005028

2

the application of mathematical methods to solution of problems concerning fuel-power balance. In recent years, he has been concerned with linear programming, and long-term prediction with computer techniques. He authored about 80 scientific works, including monographs, textbooks and handbooks, and has been editing all ENIM publications. Is active in CEMA commissions and GOSPLAN USSR, devoting special attention to coordination of scientific research in power engineering. Has been awarded the Order of the Badge of Merit and other decorations. Orig. art. has: 1 figure.
[JPRS] 14

SUB CODE: 09 / SUBM DATE: none

HW

Card 2/2

L 22592-66
ACC NR: AP6013001 SOURCE CODE: UR/0105/65/000/006/0091/0091

AUTHOR: Andrianov, V. N.; Budzko, I. A.; Venikov, V. A.; Demin, A. V.; Gorodskiy, D. A.; Grudinskiy, P. G.; Zakharin, A. G.; Krasnov, V. S.; Levin, M. S.; Listov, P. N.; Markovich, I. M.; Mel'nikov, N. A.; Nazarov, G. I.; Razevig, D. V.; Smirnov, B. V.; Stepanov, V. N.; Syromyatnikov, I. A.; Fedoseyev, A. M.; Yakobs, A. I.

35
B

ORG: none

TITLE: Doctor of technical sciences, Professor L. Ye. Ebin (on the occasion of his 60th birthday

SOURCE: Elektrichestvo, no. 6, 1965, 91

TOPIC TAGS: scientific personnel, electric network, lightning

ABSTRACT: Professor Lev Yefimovich Ebin, 60, graduated in 1928 from the Kiyevskiy elektrotekhnicheskiy institut (Kiyev Electrotechnical Institute). Between 1929 and 1936, he worked in the Donenergo system and published various original papers on lightning protection and grounding devices. From 1936 EBIN works at the Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (All-Union Scientific Research Institute for the Electrification of Agriculture) where he heads a laboratory. In 1937, he defended his candidate's dissertation and in 1951 his Ph. D. Thesis dealing with studies of the nonsymmetrical operating conditions of electrical networks and of stationary and nonstationary electro-thermal processes in the

Card 1/2 UDC: 621.31

ACC NR: AP6013001

country. These works served for further development of the rural distribution networks. He showed considerable interest in the problem of the raising of scientific personnel. Ebin was decorated with "Znak pocheta" and various medals. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2

L 22900-66 EPF(n)-2/EWT(l)/ETC(f)/EWG(m) WW

ACC NR: AT6006905 SOURCE CODE: UR/0000/65/000/000/0103/0110

AUTHOR: Andrienov, V. N.

ORG: Power Institute im. G. M. Krzhizhanovskiy (Energeticheskiy institut)

TITLE: Radiative heat transfer in a flat layer of a moving medium

SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvii tel s potokami zhidkostey i gazov (Heat and mass transfer v. 2: Heat and mass transfer in the interaction of bodies with liquid and gas flows). Minsk, Nauka i tekhnika, 1965, 103-110

TOPIC TAGS: radiative heat transfer, combustion temperature

ABSTRACT: The article presents an analytical solution said to be applicable to layer type combustion in an anthracite furnace. The initial energy equation has the following form:

$$\operatorname{div} q_л + \operatorname{div} q_к = 0. \qquad (1)$$

For the one dimensional case of a flat layer, the above equation can be simplified as follows:

$$\frac{dE_+}{dx} - \frac{dE_-}{dx} + w\gamma c\frac{dT}{dx} = 0. \qquad (2)$$

Card 1/2

L 22300-66

ACC NR: AT6006905

The results of a numerical calculation are presented graphically. It is evident from the curves that the combustion temperature of the fuel in the layer drops only slightly from the theoretical combustion temperature. For a change in the temperature of a radiation absorbing surface from 2003°K to 0°K, the temperature of the combustion layer drops by only 8%. Orig. art. has: 23 formulas and 3 figures.

SUB CODE: 20/ SUBM DATE: 09Nov65/ ORIG REF: 002/ OTH REF: 004

Card 2/2 nst

Pa. 150T33

USSR/Engineering - Generators, Synchronous Oct 49
Motors, Wind-Driven

"Stability of a Synchronous Generator in a Power Network When Operating From a Wind-Driven Motor," V. N. Andrianov, Cand Tech Sci, Moscow, 7 pp

"Elektrichestvo" No 10

Article was prompted by appearance of wind-driven motor D-18, constructed by VIME-GUSMP (awarded a Stalin prize). At a speed of 42 rpm (wind velocity of 8 meters/sec), the motor generates 28.5 kw power. Shows theoretically that a synchronous generator (SG-25/6 or 35/6) can operate stably in a system

150T33

USSR/Engineering - Generators, Synchronous (Contd) Oct 49

when driven by such a motor in regions where average yearly wind velocity is around 6 meters/sec. Determined minimum wind velocity at which stability can be maintained.

150T33

ANDRIANOV, V. N.,

ANDRIANOV, V. N.

USSR

189T17

USSR/Electricity - Power Stations, Wind-Driven May 51

"Parallel Operation of a Wind-Driven Electric Power Station With the Power Network," V. N. Andrianov, Cand Tech Sci, Moscow Inst for Mechanization and Electrification of Agr imeni Molotov; D. N. Bystritskiy, Engr, All-Union Inst for Electrification of Agr (VIESKh)

"Elektrichestvo" No 5, pp 8-12

Describes expts conducted at exptl wind-elec power station (VES) of the Zaporozh'ye Affiliate

189T17

USSR/Electricity - Power Stations, Wind-Driven (Contd) May 51

of VIESKh in synchronization and parallel operation of a wind-elec power station with the network. Submitted 13 Nov 50.

189T17

ANDRIANOV, V. N.

PA 237T11

USSR/Electricity - Wind-Electric Power Stations Jun 52

"Power Regulation of a Wind-Electric Power Station," Cand Tech Sci V. N. Andrianov, and Engr A. I. Pokatayev, Moscow

"Elektrichestvo" No 6, pp 19-24

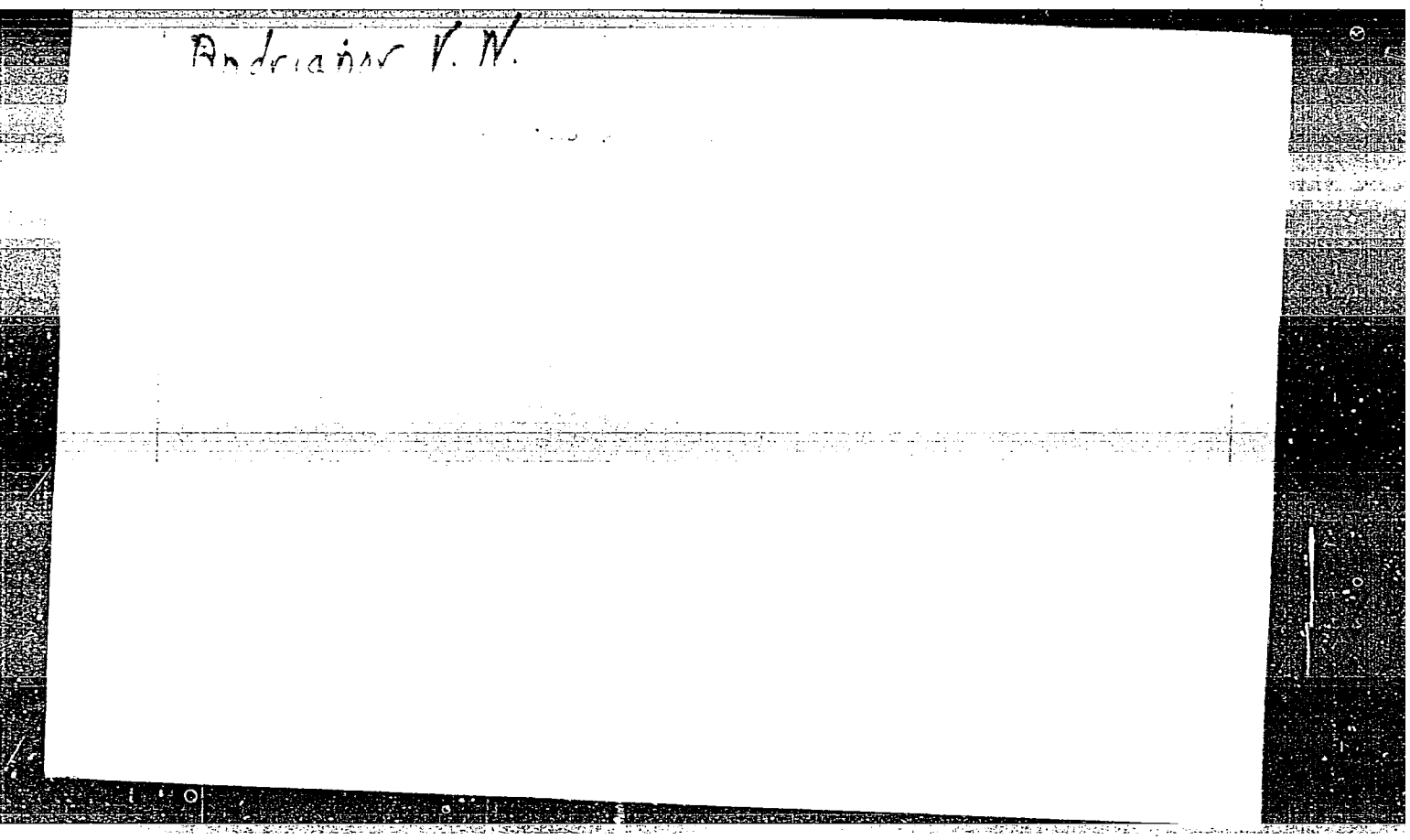
Cites results of expt operation in 1951 of wind power station using wind-powered motor type D-18 at Zaporozh'ye Affiliate of All-Union Inst for Electrification of Agriculture in parallel with regular power system. Constant power output (ie, constant torque of windmill) was successfully maintained under increased wind velocities by use of electromagnetic clutch between windmill fan and synchronous generator, although dissipation of heat from clutch presents problem. Submitted 28 Jan 52.

237T11

ANDRIANOV, V.N., kandidat tekhnicheskikh nauk; KLEMENT'YEV, G.F., inzhener.

Effectiveness of the combined operation of a wind power electric plant and a hydroelectric plant. Mekh. i elek.sel'khoz. no.4:65-70 Ap '53. (MLRA 6:5)

1. Moskovskiy institut mekhanizatsii i elektrofikatsii sel'skogo khozyaystva imeni V.M. Molotova. (Wind power) (Hydroelectric power stations)



ANDRIANOV, V.N.

KRZHIZHANOVSKIY, G.M., VEYTS, V.I., YEVREINOV, M.G., ANDRIANOV, V.N., BUDZKO, I.A., SAZONOV, N.A.

Doctor of Technical Sciences A.G.Zakharin. Elektrichestvo no.2: 84 F'55. (MLRA 8:2)

(Zakharin, Andrei Georgevich, 1904-)

ANDRIANOV, V.N.; BYSTRITSKIY, D.N.

Multiunit wind-power electric station with a 100 kilowatt capacity. Biul. nauch.-tekh. inform. po elek. sel'khoz. no.1:42-44 '56. (Electric power plants) (MLRA 10:9)

ANDRIANOV, V.N., doktor tekhnicheskikh nauk; BYSTRITSKIY, D.N., kandidat tekhnicheskikh nauk.

Effectiveness of operating wind power plants in conjunction with hydroelectric power stations. Trudy MIMESKH 3:78-89 '56.
(Power plants) (MLRA 10:8)

ANDRIANOV, V.N., doktor tekhnicheskikh nauk; SEKTOROV, V.R., kandidat tekhnicheskikh nauk.

Wind power engineering in other countries. Elektrichestvo no.10: 87-89 O '56. (MLRA 9:11)

(Wind power)

112-2-3079

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 78, (USSR)

AUTHOR: Andrianov, V. N., Bystritskiy, D. N.

TITLE: Jointly Operating Electric Heat and Wind-Motor Power Plants of Practically the Same Capacity (Sovmestnaya rabota teplovykh i vetrovykh elektricheskikh stantsiy prakticheski ravnoy moshchnosti)

PERIODICAL: Tr. Vses. n.-i. in-ta mekhaniz. s.kh., 1956, Nr 22, pp. 146-167

ABSTRACT: A study has been made on the Д -18 and 1Д -18 type wind-motors and a heat power station with a stationary internal combustion engine. To protect the wind motor from mechanical overloading, it is necessary to install electro-magnetic slip-rings or a wind-actuated moment regulator. It is pointed out that in view of the different principles of control, as well as to the different capacity ratios of the internal-combustion engine electric power plant and the wind-motor electric plant, it is necessary to take these precautions to protect the wind motor from mechanical

Card 1/2

ANDRIANOV, V.N., prof.; DRUZHININA, N.A., assistent; MISHARINA, Ye.A., kand.tekhn.nauk; NIKONOV, L.V., dotsent; SHPRINK, B.E., prof., retsenzent; GLEBOVICH, A.A., kand.tekhn.nauk; GIL'MAN, Ye.A., red.; VOZNESENSKIY, A.D., tekhn.red.

[Electric machines; instructions and assignments for students specializing in the electrification of agriculture] Elektricheskie mashiny; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov spetsial'nosti "elektrifikatsiia sel'skokhoziastvennogo proizvodstva." Pod red. V.N.Andrianova i A.A.Glebovicha. Moskva, Mosk. in-t mekhanizatsii i elektrifikatsii sel'.khoz., 1958. 56 p. (MIRA 12:2)

(Electric machinery)

ANDRIANOV, V.N., doktor tekhn.nauk; BERSENEV, Ye.Ye., inzh.; BYSTRITSKIY, D.N., kand.tekhn.nauk; GREBENNIKOV, A.F., kand.tekhn.nauk; GRETSOV, N.A., kand.tekhn.nauk; ZUYEV, V.A., kand.tekhn.nauk; KLIMOV, A.A., kand.tekhn.nauk; KOROLEV, V.F., kand.tekhn.nauk; KUDRYAVTSEV, I.F., kand.tekhn.nauk; KULIK, M.Ye., kand.tekhn.nauk; NAZAROV, G.I., kand. tekhn.nauk; OLEYNIK, N.P., inzh.; OSETROV, P.A., kand.tekhn.nauk; PODSOSOV, A.N., inzh.; POPOV, S.T., inzh.; PRISHCHEP, L.G., kand. tekhn.nauk; PCHELKIN, Yu.N., inzh.; RUBTSOV, P.A., kand.tekhn.nauk; RUNOV, B.A., kand.tekhn.nauk; SAVINKOV, K.P., kand.tekhn.nauk; SAZONOV, N.A., prof., doktor tekhn.nauk; SERGEYEV, A.S., inzh.; SKVORTSOV, P.F., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; SMIRNOV, V.I., kand.tekhn.nauk; TYMINSKIY, Ye.V., inzh.; URVACHEV, P.N., kand.tekhn.nauk; SHTURMAN, B.A., inzh.; SHCHUROV, S.V., kand.ekon.nauk; RUNOVA, L.M., inzh.; VOL'FOVSKAYA, D.N., red.; NIKITINA, V.M., red.; BALLOD, A.I., tekhn.red.

[Manual on the use of electric power in agriculture] Spravochnik po primeneniiu elektorenergii v sel'skom khoziaistve. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 606 p. (MIRA 11:5)
(Electricity in agriculture)

SERGOVANTSEV, V.T., kand.tekhn.nauk; YURASOV, V.V., kand.tekhn.nauk; ALUKER, Sh.M., kand.tekhn.nauk; ANDRIANOV, V.N., doktor tekhn. nauk; ASTAF'YEV, N.N., kand.tekhn.nauk; BUDZKO, I.A., akademik; BYSTRITSKIY, D.N., kand.tekhn.nauk; VEYALIS, B.S., kand.tekhn. nauk; GIRSHBERG, V.V., inzh.; GORSHKOV, Ye.M., inzh.; GRICHEVSKIY, E.Ya., inzh.; ZAKHARIN, A.G., doktor tekhn.nauk; ZLATKOVSKIY, A.P., kand.tekhn.nauk; IOSIPYAN, S.G., inzh.; ITSKOVICH, A.M., dotsent; KAUFMAN, B.M., inzh.; KVITKO, M.N., inzh.; KORSHUNOV, A.P., inzh.; LEVIN, M.S., kand.tekhn.nauk; LOBANOV, V.N., dotsent; LITVINENKO, A.F., inzh.; MERKELOV, G.F., inzh.; PIRKHAVKA, P.Ya., kand.tekhn.nauk; PRONNIKOVA, M.I., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; FATYUSHENKO, S.G., inzh.; KHODNEV, V.V., inzh.; SHCHATS, Ye.L., kand.tekhn.nauk; EBIN, L.Ye., doktor tekhn.nauk; ENTIN, I.A., kand.tekhn.nauk; SILIN, V.S., red.; SMELYANSKIY, V.A., red.; BALLOD, A.I., tekhn.red.; SMIRNOVA, Ye.A., tekhn.red.

[Handbook pertaining to the production and distribution of electricity in agriculture] Spravochnik po proizvodstvu i raspredeleniiu elektricheskoi energii v sel'skom khozyaistve. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 900 p. (MIRA 13:2)

1.Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Budzko).
(Rural electrification)

8(0)

AUTHORS: Andrianov, V. N., Budzko, I. A., Sazonov, N. A., Skvortsov, P. F. SOV/105-59-3-26/27

TITLE: Stepan Artem'yevich Burguchev

PERIODICAL: Elektrichestvo, 1959, Nr 3, p 96 (USSR)

ABSTRACT: This article has been written to celebrate the 70-th birthday of Stepan Artem'yevich Burguchev. He was born in December 1888 and graduated from the Moskovskoye vyssheye tekhnicheskoye uchilishche (Moscow Technical College) as an Electrical Engineer in 1919. While he was still studying, he took part in the planning of the project and in the construction of the first regional power station "Elektroperedacha" (at present GRES im. Klassona). After leaving the college he supervised the efforts directed towards the electrification of agriculture in the Moskovskaya oblast', of textile industry and linen ware Kombinats in the Vladimirskaya oblast' and the planning and the construction of the sub-stations in the Podmoskovskiy ugol'nyy bassein (Podmoskovskiy coal basin). He collaborated in the establishment of the first

Card 1/3

Stepan Artem'yevich Burguchev

agricultural Yaropoletskaya elektrostantsiya im. Lenina (Yaropolets power station imeni Lenin). Under his supervision the electrified section of the first stage of the Moscow subway and the Dneprovskiy alyuminiyevyy kombinat (Dnepr Aluminum Kombinat) were built. During World War II he was engaged in work concerned with the electrification of industries evacuated to the east. He is a member of the section of electrification of the Nauchno-tekhnicheskiy sovet Ministerstva sel'skogo khozyaystva SSSR (Scientific-Technical Council at the Ministry of Agriculture of the USSR). Since 1923 he is besides his activities as an engineer also engaged in scientific and pedagogical work at the Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina (All-Union Institute of Electrical Engineering imeni Lenin), at the Moskovskiy elektromekhanicheskiy institut im. Lomonosova (Moscow Institute of Electromechanics imeni Lomonosov), and at the Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (Moscow Institute for the Mechanization and Electrification of Agriculture). He is one of the founders of the scientific discipline of the "production and distribution of electrical power in agriculture". He

Stepan Artem'yevich Burguchev

SOV/105-59-3-26/27

is the author of many publications. His book " Electrical power stations and sub-stations in agriculture" (1958) is a systematic work which gives a general aspect of experience gained in many years. 1953 he was awarded the Lenin Order. There is 1 figure.

Card 3/3

ANDRIANOV, V.N., doktor tekhn.nauk; BYSTRITSKIY, D.N., kand.tekhn.nauk; VASHKEVICH, K.P., inzh.

Dynamic processes in the operation of wind electric power plants in an electric system. Nauch. trudy VIESKH 4:207-225 '59.
(MIRA 13:11)

1. TSentral'nyy aero-gidrodinamicheskiy institut (for Vashkevich).
(Wind power)

ANDRIANOV, V.N.; BYSTRITSKIY, D.N.; KRAUSP, V.R.; PAN'KIN, V.V.; PECHKOVSKIY, G.A.; ZAK, I.G.; LEVIN, M.I.

Automation of small mobile electric power plants used as temporary and reserve power supply sources in agriculture. Sbor. nauch.-tekh. inform. po elek. sel'khoz. no.6:34-39 '59. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Pechkovskiy). 2. Saratovskiy mekhanicheskiy zavod (for Zak). 3. TSentral'nyy dezinfektsionnyy nauchno-issledovatel'skiy institut (for Levin).
(Electric power plants) (Electricity in agriculture)

ANDRIANOV, V.N., doktor tekhn.nauk; BYSTRITSKIY, D.N., kand.tekhn. nauk; PAN'KIN, V.V., insh.

Automation of mobile diesel electric power stations. Mekh.i elek.sots.sel'khoz. 17 no.5:33 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva.
(Electric power plants)

ANDRIANOV, Viktor Nikolayevich, prof.; BYSTRITSKIY, D.N.; VOROPAYEV, N.I.; DRUZHININA, N.A.; MISHARINA, Ye.A.; NIKONOV, L.V.; NIKITINA, V.M., red.; PROKOF'YEVA, L.N., tekhn.red.

[Practical studies of electric machinery in laboratories] Laboratorno-prakticheskie zaniatiia po elektricheskim mashinam. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 250 p. (MIRA 13:6)
(Electric machinery--Study and teaching)

PHASE I BOOK EXPLOITATION SOV/5321

Andrianov, Viktor Nikolayevich, Dorian Naumovich Bystritskiy, Konstantin Petrovich Vashkevich, and Vladimir Rafailovich Sektorov

Vetroelektricheskiye stantsii (Wind-Motor Electric Power Stations) Moscow, Gosenergoizdat, 1960. 319 p. 2,000 copies printed.

Ed. (Title page): V.N. Andrianov, Professor; Ed.: V.A. Orlov; Tech. Ed.: K.P. Voronin.

PURPOSE: This book is intended for power engineers of various specialties for engineers engaged in designing and operation of wind-driven electric power stations, and for students and agricultural workers in the field of rural electrification.

COVERAGE: The authors describe wind-motor direct-current and alternating-current electric power stations of various capacities. The following are discussed: design and utilization of stations; problems of control-system statics and dynamics in isolated stations and in those connected in parallel with a system

Card 1/6

S/105/60/000/05/25/028
B007/B008

AUTHORS: Andrianov, V.N., Astakhov, N.V., Gubenko, T.P., Kostenko, M.P., Larionov, A.N., Lopukhina, Ye.M., Petrov, G.N., Somikhina, G.S., Yuferov, F.M., Chilikin, M.G.

TITLE: Yu.S. Chechet (Deceased)

PERIODICAL: Elektrichestvo, 1960, No. 5, p. 89

TEXT: Yuriy Sergeyevich Chechet, Professor at the Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering), scientist and pedagogue, and an expert in the field of electrical micromachines, died on February 26, 1960. He was born on February 2, 1894. He studied at the mekhanicheskiy fakul'tet Kiyevskogo politekhnicheskogo instituta (Department of Mechanics at the Kiyev Polytechnic Institute) from 1913 to 1919. From 1919 teaching activity in Odessa and in Moscow. In 1923 he graduated from the elektrotekhnicheskiy fakul'tet Moskovskogo vysshego tekhnicheskogo uchilishcha (Department of Electrical Engineering at the Moscow Higher Technical School). He published about 40 scientific studies. From 1931-1942 Director of the kafedra elektricheskikh mashin (Chair for Electrical Machines) at the Moskovskiy institut

Card 1/2

Yu.S. Chechet (Deceased)

S/105/60/000/05/25/028
B007/B008

mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (Moscow Institute of the Mechanization and Electrification of Agriculture). From 1942 until his death he was Professor at the kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta (Chair for Electrical Machines at the Moscow Institute of Power Engineering). At the same time he directed a chair at the Voyenno-inzhenernaya Krasnoznamennaya akademiya im. Kuybysheva (Military "Red Banner" Engineering Academy imeni Kuybyshev) for a number of years. He took his doctor's degree in 1940. He wrote his dissertation on "Theoretical Principles for the Designing of Universal Micromotors" ("Teoreticheskiye osnovy proyektirovaniya universal'nykh mikrodvigateley."). He was a Deputy of the Mossovet (Moscow Soviet of Workers' Deputies) and holder of the Order of Lenin and a number of medals, as well as Chairman of the Section Electrical Machines of the MONITOE. There is 1 figure.

Card 2/2

ANDRIANOV, V.N., doktor tekhn. nauk, prof.; SEMENYAK, Yu.A., inzh.

[Efficient electric drive for cream separators] K voprosu o ratsional'nom elektroprivode molochnykh separatorov; nauchnoe soobshchenie. Moskva, Otdel tekhn. informatsii VIESKha. 1962. 41 p. (MIRA 16:11)
(Cream separators—Electric driving)

ANDRIANOV, V.N., doktor tekhn.nauk; SEMENYAK, Yu.A., inzh.

Use of a calibrated d.c. motor for derivation of mechanical characteristics. Prom. energ. 17 no.3:12-13 Mr '62. (MIRA 15:2)
(Electric power distribution) (Electric machinery)

ANDRIANOV, V.N., doktor tekhn.nauk; BYSTRITSKIY, D.N., kand.tekhn.nauk

Pulse start of asynchronous short-circuited motors. Mekh. i elek. sots. sel'khoz. 20 no.3:46-47 '62. (MIRA 15:7)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni Timiryazeva (for Andrianov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Bystritskiy).
(Electric motors, Induction)

ANDRIANOV, V. N., doktor tekhn. nauk; GORIN, Ye. I., inzh.

Certain features of using synchronous electric motors in agriculture. Mekh. i elek. sots. sel'khoz. 20 no.6:47-50 '62. (MIRA 16:1)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K. A. Timiryazeva (for Andrianov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Gorin).

(Electric motors, Synchronous)
(Electricity in agriculture)

ALUKER, Sh.M.; ANDRIANOV, V.N.; BUDZKO, I.A.; BURGUCHEV, S.A.; ZAKHARIN, A.G.; NAZAROV, G.I.; PRISHCHEP, L.G.; POYARKOV, M.F.; RASOVSKIY, E.I.; RUNOV, B.A.; SKVORTSOV, P.F.; SEMGEYEV, A.V.

P.N.Listov; on his sixtieth birthday and the thirty-fifth anniversary of his industrial, theoretical, and educational work. Elektrichestvo no.11:94 N '62. (MIRA 15:11)
(Listov, Petr Nikolaevich, 1902-)

ANDRIANOV, V.N., doktor tekhn.nauk; SEMENYAK, Yu.A., inzh.

Choice of electric motors for driving milk centrifuges. Vest. elektroprom 33 no.9:29-33 S '62. (MIRA 15:10)
(Cream separators—Electric driving)

ANDRIANOV, V.N., doktor tekhn. nauk; BYSTRITSKIY, D.N., kand. tekhn. nauk; PAN'KIN, V.V., inzh.

Automatic control networks at mobile diesel electric power plants with contactless elements. Mekh. i elek. sots. sel'khoz. 21 no.3:38-43 '63. (MIRA 16:8)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni Timiryazeva (for Andrianov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Bystritskiy, Pan'kin).

(Diesel electric power plants)
(Electricity in agriculture)

ANDRIANOV, V.N., doktor tekhn. nauk; CHERNOPYATOV, N.I., inzh.

Expediency of the use of single-phase electric motors in rural networks. Mekh. i elek. sots. sel'khoz. 21 no.5:42-44 '63. (MIRA 17:1)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A. Timiryazeva (for Andrianov). 2. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for Chernopyatov).

ANDRIANOV, V.N.; BUDZKO, I.A.; BURGUCHEV, S.A.; LISTOV, P.N.; PETROV, I.I.; POYARKOV, M.F.; SKVORTSOV, P.F.

G.I.Nazarov; on his 60th birthday. Elektrichestvo no.9:92 S '63. (MIRA 16:10)

ANDRIANOV, V.N.; BULGAKOVA, M.D.

Middle Carboniferous age in boundary layers of the Tiks and Verkhoyansk series of the Kharaulakh Mountains in the lower Lena Valley. Dokl. AN SSSR 162 no.1:155-157 My '65. (MIRA 18:5)

1. Institut geologii Yakutskogo filiala Sibirskogo otdeleniya AN SSSR. Submitted January 9, 1965.

KOCHURA, O.D., kand. med. nauk; ANDRIANOVA, V.N., kand. med. nauk; KURITSYNA, S.N., kand. med. nauk

Dermatovenereological service in Gorkiy Province in connection with the public health reorganization. Vest. derm. i ven. 38 no.10:73-75 O '64. (MIRA 18:7)

1. Gor'kovskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (direktor - kand. med. nauk O.D. Kochura) Ministerstva zdravookhraneniya RSFSR.

ANDRIANOV, V.N., doktor tekhn.nauk, prof. (Moskva); BYSTRITSKIY, D.N., kand. tekhn.nauk (Moskva)

Start of squirrel-cage induction motors from an autonomous power supply unit. Elektrichestvo no.10:46-52 O '65. (MIRA 18:10)

ANDRIANOV, V.P., inzh.; DZHALALOV, G.G., inzh.; TOLSTOY, V.V., inzh.

Transmission of data to a railroad computer center. Avtom., telem. i sviaz' 9 no.8:10-15 Ag '65. (MIRA 18:9)

ANDRIANOV, V.P.

USSR/Miscellaneous - Machine shop practices

Card 1/1 ; Pub. 103 - 24/29

Authors ; Andrianov, V. P.; Vyalukhin, P. N.; and Ippolitov, G. M.

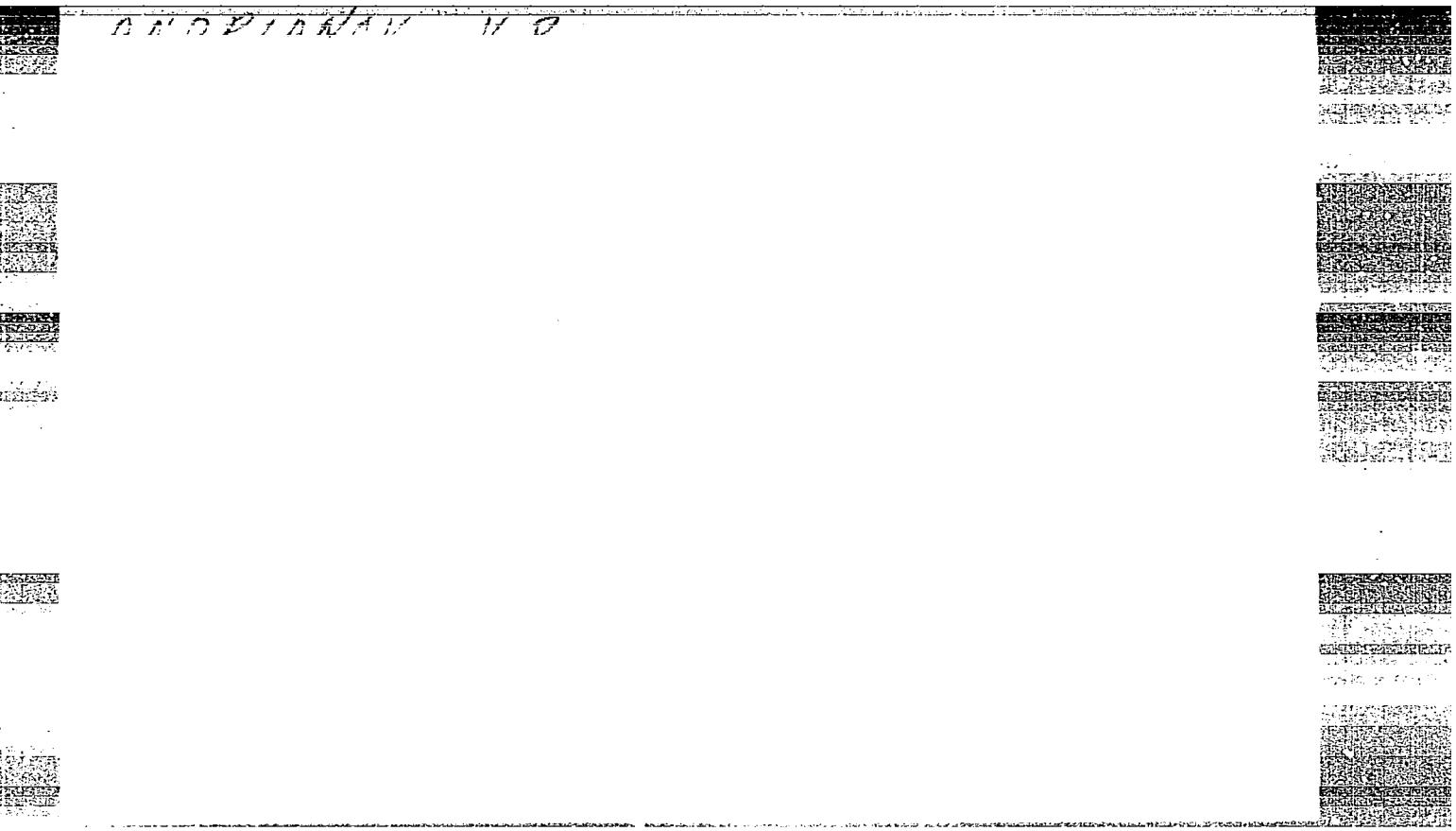
Title ; Consultation. Elutriation of micro-powders

Periodical ; Stan. i instr. 9, page 38, Sep 1954

Abstract ; Question and answers on how to organize the elutriation of micro-powders under workshop conditions are presented. Table; drawing.

Institution : ...

Submitted : ...



TULUPOV, L.P., kand.tekhn.nauk; ANDRIANOV, V.P., inzh.; BUYANOV, V.A., inzh.

Organization of remote-controlled transmission of information to the computing points of railroads. Vest.TSNII MPS 20 no.3:57-61 '61. (MIRA 14:5)

(Railroads—Electronic equipment)

S/120/62/000/001/047/061
E039/E485

AUTHORS: Danilov, I.B., Andrianov, V.P.

TITLE: An electrical indicator for the tuning and testing of working piston engines

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 183-185

TEXT: The apparatus described permits the continuous observation of the indicator diagram of a working piston engine on the screen of an oscillograph, without the addition of a probe to the working volume of the cylinder. Instead of measuring the pressure in the working volume directly, the distortion of a part of the engine was measured, by means of a resistance strain gauge, at a point where the deformation was proportional to the pressure in the working volume. In this particular case, a stainless steel tube which strengthened the cylinder and valve case was used. The strain gauge consisted of a grid of constantan wire, 40 mm long with a 0.5 mm pitch mounted on a paper base, and had a total resistance of 300 ohms. The gauge was fixed on to the stainless steel tube by means of adhesive 192-T and its sensitivity, measured by applying a static pressure

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to the system, was shown to be 0.3Ω/kg. The influence of transverse oscillations of the tube was reduced by using two strain gauges mounted on opposite sides of the tube. The signal from the strain gauges was amplified and displayed on an ЭО-7 (EO-7) oscillograph. As it was necessary to amplify very low frequencies, the frequency characteristic of the vertical amplifier was modified. Taking the amplification coefficient at 3 to 10 c/s as unity, then at 0.3 c/s it was 0.7. The horizontal time base was taken from a generator mounted on the crankshaft of the engine. As the engine worked at speeds of about 300 rpm, the cathode ray tube of the oscilloscope was changed for one with a long afterglow screen. Photographs of the indicator diagrams obtained are included in the paper. The method was found to be reliable and convenient. Acknowledgments are expressed to P.L.Kapitsa for the idea of the electric indicator and to L.N.Shteyngayz for the construction of the generator. There are 4 figures and 1 table.

ASSOCIATION: Institut fizicheskikh problem AN SSSR
(The Institute of Physical Problems AS USSR)

 SUBMITTED: June 1, 1961

PETROV, A.P., doktor tekhn. nauk, prof.; TULUPOV, L.P., kand. tekhn. nauk; KRYUKOV, N.D., kand. tekhn.nauk; GUNDOBIN, V.N., inzh.; VASIL'YEV, G.S., kand. tekhn. nauk; GRISHIN, M.S., kand. tekhn. nauk; MOROZOVA, K.N., inzh.; ROZE, V.A., inzh.; LEVSHIN, G.L., inzh.; BERNGARD, K.A., doktor tekhn. nauk, prof.; BIKCHENTAY, M.A., inzh.; BUYANOV, V.A., inzh.; ILOVAYSKIY, N.D., inzh.; MUKHAMEDOV. G.A., kand. tekhn.nauk; MIROSHNICHENKO, A.P., inzh.; ANDRIANOV, V.P., inzh.; BUTS, V.D., inzh.; KAZIMOV, A.A., inzh.; KRUGLEV, O.P., inzh.; DYUFUR, S.L., kand. tekhn. nauk; USTINSKIY, A.A., kand. tekhn. nauk; MIKHAYLOV, S.M., inzh.; NESTEROV, Ye.P., kand. tekhn. nauk, retsenzent; LIVSHITS, V.N., inzh., retsenzent; PREDE, V.Yu., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Control of transportation processes using electronic digital computers] Upravlenie perevozochnym protsessom s primeneniem elektronnykh tsifrovykh vychislitel'nykh mashin. Pod obshchei red. A.P.Petrova. Moskva, Transzheldorizdat, 1963. 207 p. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Petrov).
(Railroads--Management) (Electronic digital computers)

ANDRIANOV, V.P., inzh.

Comparing the methods for increasing the fidelity of information transmission. Vest. TSNII MPS 22 no.3:54-59 '63. (MIRA 16:7)

(Railroads—Communication systems)

ANDRIANOV, V.P., inzh.

Coordinated characteristics of channels for data transmission. Vest. TSNII MPS 24 no.2:58-62 '65. (MIRA 18:5)

DIBROV, V.Ye.; MIRONOV, I.K.; KHOL', F.I.; ANDRIANOV, V.T.; LEBEDEV, A.P., doktor geologo-mineral.nauk, otv.red.; IMSHENETSKIY, A.I., red. izd-va; RYLINA, Yu.V., tekhn.red.

[Geology and diamond potential of the southwestern Siberian Platform] Geologicheskoe stroenie i almazonosnost' iugo-zapadnoi chasti Sibirskoi platformy. Moskva, Izd-vo Akad.nauk SSSR, 1960. 96 p. (MIRA 13:4)

(Siberian Platform--Diamonds)

ANDRIANOV, V.V.

Conference of medical workers of the Mari A.S.S.R. Zdrav. Ros.Feder. 2 no.1:47-48 Ja '58. (MIRA 11:2)
(MARI A.S.S.R.--PUBLIC HEALTH)

ANDRIANOV, V.V.

Changes in the nervous system in the cerebral form of vibration sickness. Uch. zap. Mosk.nauch.-issl.inst.san. i gig. no.7:52-56 '60. (MIRA 15:2)

(VIBRATION--PHYSIOLOGICAL EFFECT) (NERVOUS SYSTEM)

ANDRIANOV, Vasiliy Vasil'yevich; ARTEMCHUK, P.L., red.; YERKHOVA, Ye.A., tekhn. red.

[Our friend Cuba] Nash drug Kuba. Moskva, In-t mezhdunar. otnoshenii, 1963. 102 p. (MIRA 17:2)

ANDRIANOV, V.V.; KONYUKHOV, V.V.; NIKOLOTOVA, A.S.; TREYMAN, V.V., prof.

Some data on medical service and the incidence of disease with temporary disability of workers and employees of the Ryazan Combine of Artificial Fibers. Nauch.trudy Riaz.med. inst. 23:38-44 '63. (MIRA 18:12)

1. Kafedra organizatsii zdravookhraneniya i istorii meditsiny (zav. kafedroy - prof. V.V.Treyman) Ryazanskogo meditsinskogo instituta imeni akademika I.P.Pavlova.

ACCESSION NR: AP4000400 S/0294/63/001/001/0050/0055

AUTHORS: Sy*chev, V. V.; Andrianov, V. V.

TITLE: Effect of gravitational factors on specific heat measurements c_v near the critical point

SOURCE: Teplofizika vy*sokikh temperatur, v. 1, no. 1, 1963, 50-55

TOPIC TAGS: gravitation, specific heat, heat capacity, critical point, physical property, thermodynamic property

ABSTRACT: In view of the lack of either experimental or theoretical published data on this subject, the author considers a hypothetical calorimetric vessel placed in a thermostat in which critical temperature is maintained. Although the pressure variation along the height of the vessel is very slight, near the critical point this variation causes a noticeable variation in density of matter, so that the critical state of matter is attained at some section of the vessel

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ACCESSION NR: AP4000400

in such a way that the position of the cross section in which the critical state is realized varies from the upper point of the vessel to a point on its bottom in accordance with the different values of the specific volume of the matter averaged over the vessel. The effects due to gravity are calculated on the basis of this model, and it is suggested that a precision experimental study of these phenomena would be of great interest. Original article has: 7 formulas and 5 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut vysokikh temperatur (High Temperature Research Institute)

SUBMITTED: 27Apr63 DATE ACQ: 13Dec63 ENCL: 00

SUB CODE: AS NO REF SOV: 003 OTHER: 001

Card 2/2

L 14298-65 EEC(b)-2/EPF(c)/EPF(n)-2/EPR/EWP(j)/EWT(1)/EWT(m)/EWP(b)/EEC(f)
EWA(d) Pc-4/Pr-4/Ps-4/Pu-4 RAEM(c)/IJP(c) GG/RM/WW/JD/JG
ACCESSION NR: AP4049130 S/0020/64/159/001/0060/0062

AUTHOR: Sy*chev, V. V.; Zankevich, V. B.; Andrianov, V. V.; Al'tov, V. A.

TITLE: Discontinuity of the critical a-c current value in passing through the lambda-point of a superconducting solenoid

SOURCE: AN SSSR. Doklady*, v. 159, no. 1, 1964, 60-62

TOPIC TAGS: superconductivity, lambda point, superdonductive solenoid, AC superconductivity, critical current discontinuity, helium immersed solenoid

ABSTRACT: The factors determining the critical current value in superconducting solenoids were studied experimentally by establishing the behavior of the critical current value as the temperature was reduced. Network power at a frequency of 50 cps was used in measurements. The coils were made of 65 BT (a multi-component Nb-Ti-based alloy developed by the Central Scientific Research Institute of Ferrous Metallurgy) superconducting wire 0.25 mm in diameter, "viniflex" coated to a diameter of 0.30 mm. The experimental arrangement permitted lowering the temperatures in the cryostat to 2K by reducing the helium vapor pressure in the chamber. Three types of solenoids

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were investigated. Type I had 6200 turns with inside and outside diameters of 16 and 45 mm respectively, and a coil height of 35 mm. The value of the critical current density remained constant in this solenoid, down to a temperature of about 2.17K where a sharp upward jump occurred. The solenoids of types II and III were wound on a polyfluoroethylene form of 55 mm high and having an axial hole of 6 mm in diameter. Solenoid II had 5000 turns, its inside and outside diameters were 16 and 39 mm, and it was 35 mm high. Solenoid III had 2700 turns, inside and outside diameters of 16 and 29 mm, and a height of 35 mm. The measurements revealed that the value of critical current density rises sharply with smaller solenoids. The results obtained point to a strong dependence of the critical current value on the penetration of the liquid helium into the inner zone of the winding. Helium vapors in that zone apparently do not prevent the inflow of the liquid. In any case, the results obtained cannot be satisfactorily explained solely by changes in heat conduction from the surface of the solenoid during the transition through the lambda point. Orig. art. has: 3 figures.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101420008-5"

L 14298-65

ACCESSION NR: AP4049130

ASSOCIATION: Nauchno-issledovatel'skiy institut vysokikh temperatur Moskovskogo energeticheskogo instituta (Scientific Research Institute of High Temperatures, Moscow Power Engineering Institute)

SUBMITTED: 15Jun63	ENCL: 00	SUB CODE: EC
NO REF SOV: 000	OTHER: 004	ATD PRESS: 3136

Card 3/3

L 10245-66 EWT(l)/EWT(m)/EWA(d)/EWP(j)/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/GS/RM

ACC NR: AP5027838 SOURCE CODE: UR/0020/65/165/001/0073/0076

AUTHOR: Sychev, V.V.; Zenkevich, V.B.; Andrianov, V.V.

ORG: Scientific-Research Institute of High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur)

TITLE: Inductance of a superconducting solenoid

SOURCE: AN SSSR, Doklady, v. 165, no. 1, 1965, 73-76

TOPIC TAGS: superconductivity, superconducting alloy, electric inductance, magnetic induction, solenoid

ABSTRACT: Earlier determinations of the inductance of superconducting solenoids led to contradictory results and transient processes in superconductive magnetic systems could not be explained by the existing ideas concerning the inductance of superconducting solenoids. The present authors carried out experiments using a test solenoid with 11,062 turns of Nb-33%Zr wire 0.2 mm in diameter. The wire is insulated by viniflex lacquer and has no metallic coatings. The inner diameter of the windings is 16 mm, the outer 51.5 mm, and the height of the solenoid is 37.5 mm. The coefficient of filling of the windings by the superconductive material is 0.525. The critical solenoid current is 11.5 a, corresponding to a maximum field at the center of the solenoid of 32 kO. The first series of tests dealt with the solenoid carrying a weak AC current component (1 ma, 80 cps) superimposed on a DC current component. In the second set of tests, the solenoid carrying a prescribed DC current was disconnected from the

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power supply by vacuum connectors and then connected across a discharge resistance (1 ohm). The results are shown in Fig. 1. Computer calculations of the energy of the magnetic field

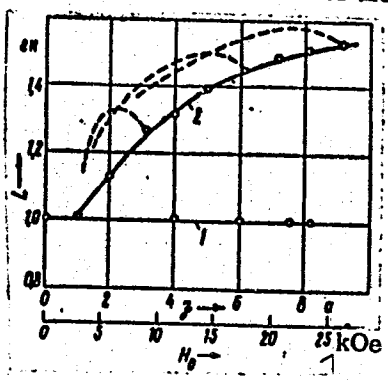

Fig. 1. Results of the measurement of the inductance of the superconducting solenoid. Curves 1 and 2 correspond to the first and second series of tests, respectively.

within an appropriate magnetic field and the measured value of the total solenoid inductance at liquid nitrogen temperatures yield a value of 0.971 H for the external inductance of the paramagnetic solenoid. This is in good agreement with the experimental results. The article concludes with a discussion of the possible reasons for the differences between curves 1 and 2.

L 10245-66
ACC NR: AP5027838

9 44,55

The paper was presented by Academician V.A. Kirillin, 9 June 65. The authors thank V.A. Al'tov and V.G. Manuylov (who prepared the computer program) for their help during the investigation and F.F. Ternovskiy for discussing the results. Orig. art. has: 3 formulas and 1 figure. [08]

SUB CODE: 09 / SUBM DATE: 08Jun65 / OTH REF: 002 / ATD PRESS: 4161

44,55 44,55

OC

Card 3/3

SYCHEV, V.V. (Moskva); ZENKEVICH, V.B. (Moskva); ANDRIANOV, V.V. (Moskva)

Investigation of the transition processes of a superconducting solenoid with inductive protection going normal. Izv. AN SSSR. Energ. i transp. no.1:100-106 Ja-F '65. (MIRA 18:4)

L 55922-65
ACCESSION NR: AP5012436 UR/0281/65/000/002/0117/0122

AUTHOR: Sychev, V. V. (Moscow); Zenkevich, V. B. (Moscow); Andrianov, V. V. (Moscow)

TITLE: The influence of the protective loop resistance on the transition of a superconducting solenoid to the normal state

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 2, 1965, 117-122

TOPIC TAGS: semiconductor solenoid transition, impedance protected coil, superconducting coil, coil voltage surge, superconducting system resistance

ABST ACT: In an earlier paper (Izv. AN SSSR, Energetika i transport, 1965, no. 1), the authors presented the results of an experimental study of the transition of a superconducting solenoid to its normal state for a constant value of the resistance within the protective loop. The theoretical study of such a process was carried out earlier by M. W. Dowley (Cryogenics, 1964, v. 4, no. 3, p. 153) and P. F. Smith (Rev. Sci. Instr., 1963, v. 34, p. 368). The present paper reports results using the same inductively protected solenoid but for various values of the resistance of the secondary loop. This auxiliary copper coil, whose circuit is closed through the external resistor, reduces the heat liberation and surge of voltage within the superconducting material during the transient process. Re-

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ACCESSION NR: AP5012436

sults in the form of graphs cover 1) the time dependence of the current within the primary loop of the superconducting solenoid, 2) the time dependence of the voltage surge along the normal section of the solenoid accompanying the transition from the superconducting state for various values of the secondary loop resistance, 3) the changes in current within the secondary solenoid loop, 4) the dependence of the primary resistance on the additional resistance in the secondary at the instant of time the current within the superconducting windings drops to one half of its initial value, 5) the maximum voltage surge as a function of the resistance of the secondary, 6) the portion of the magnetic field energy consumed by the secondary, 7) changes (in time) in the heat liberation power within various elements of the system, and 8) the maximum values of heat liberation within various elements of the system as a function of the added resistance. Orig. art. has: 10 formulas and 8 figures.

ASSOCIATION: None

SUBMITTED: 20Oct64 ENCL: 00 SUB CODE: EE

NO REF SOV: 001 OTHER: 002

Card 2/2

L 03537-67 EWT(m)/EWP(j)/EWP(t)/ETI/EWP(k) IJP(c) JD/JG/RM

ACC NR: AP6027953 SOURCE CODE: UR/0020/66/169/003/0569/0572

AUTHOR: Sychev, V. V.; Zenkevich, V. B.; Andrianov, V. V.

ORG: Scientific Research Institute of High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur)

34
28
B

TITLE: Intrinsic magnetic flux in a superconducting solenoid

SOURCE: AN SSSR. Doklady, v. 169, no. 3, 1966, 569-572

TOPIC TAGS: solenoid, superconductivity

ABSTRACT: A new method is proposed for studying the magnetic properties of a superconducting solenoid in view of the incomplete and contradictory picture of the behavior of a solenoid in a self-field. The magnetic history of the solenoid may be described by using the concept of the total magnetic flux (magnetic linkage) of the solenoid Ψ. This quantity is the sum of the intrinsic Ψ_i and extrinsic Ψ_e fluxes of the solenoid. In an infinite solenoid the extrinsic flux is independent of the intensity of magnetization in the coil and is linearly dependent on the current I flowing in the coil, $\Psi_e = L_e I$, where L_e is a proportionality factor which may be called the extrinsic inductance of the solenoid. It is found that the factor L_e for a solenoid of finite length

Card 1/2 UDC: 537.312.62

L 38436-66 EWT(m)/EWP(k)/EWP(e)/EWP(t)/ETI IJP(c) JG/WW/JD

ACC NR: AP6024389 SOURCE CODE: UR/0020/66/169/002/0316/0319

AUTHOR: Andrianov, V. V.; Zenkevich, V. B.; Sokolov, V. I.; Sychev, V. V.; Tovma, V. A.; Fedotov, L. N.

ORG: Scientific Research Institute for High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur); Central Scientific Research Institute for Ferrous Metallurgy im. I. P. Bardin (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: A superconducting solenoid from a three-component alloy generating fields of over 75,000 Oe

SOURCE: AN SSSR. Doklady, v. 169, no. 2, 1966, 316-319

TOPIC TAGS: superconductivity, strong magnetic field, niobium alloy, titanium alloy, zirconium containing alloy, SOLENOID

ABSTRACT: A superconducting magnet has been constructed which generates magnetic fields of more than 75,000 oe using wire made from an alloy of niobium (65%), titanium (15%), and zirconium (about 9%), the remainder being other components selected for their metallurgical properties. The critical temperature of the material is 9.8—10K. Because of its relatively low brittleness, the 0.25-mm o.d. copper-plated wire could be drawn by standard methods into four-kg coils

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KHARIANOV, V. Ye.

Fuel Abstracts
May 1954
Steam Raising
and Steam Engines

3790. RESISTANCE OF COOLING TOWER SPRAY DEVICES. Kharianov, V.E. and Gromtsev, L.K. (Elekt. Sta., Pir Sta., Moscow), Oct. 1953, vol. 24, 21-24). Results are presented of wet and dry tests of various types of sprinkler, carried out on an experimental cooling tower in order to supplement existing information on the resistance of air movement in spray devices. B.E.A.

KAPLAN, R.R., inzhener; KUL'PIN, P.I., inzhener; ANDRIANOV, V.Ye.

Testing VOS-2 rotating casing and chain pumps. Sel'khozmashina no.10:7-10 O '56. (MLRA 9:12)
(Pumping machinery)

ANDRIANOV, Ye.A.

Following the example of IU.M.Vecherova; competition for the highest operating efficiency of equipment and labor productivity at the Glukhovo Cotton Combine named after Lenin. Tekst.prom. 22 no.4:4-5 Ap '62 (MIRA 15:6)

1. Sotrudnik redaktsii gazety "Znamya kommunizma". (Noginsk(Moscow Province)--Cotton manufacture) (Efficiency, Industrial)

ANDRIANOV, Ye.A.; KUGEL', S., inzh.

Information. Tekst. prom. 23 no.6:90-93 Je '63. (MIRA 16:7)

1. Sotrudnik redaktsii Noginskoy gorodskoy gazety "Znamya kommunizma" (for Andrianov).
(Textile industry)

VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.; ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.; STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Prinimali uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.; SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.; ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.; LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.; KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.; GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.; PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance of blast furnaces. Koks i khim. no.12:26-32 '61. (MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin, Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik, Vasil'yev, Shemel'). 2. Zhdanovskiy koksokhimicheskiy zavod (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov, Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, TSimbal). 3. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy). 4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev, Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy, Ponomareva).

(Coke)
(Blast furnaces)

ANDRIANOV, Ye.I., inzh.;YARIZOV, A.D., inzh.

Electric multimotor drive of the E-2005 excavator. Stroi. i dor. mashinostr. 4 no.11:13-15 N '59 (MIRA 13:3)
(Excavating machinery--Electric driving)

ANDRIANOV, Ya.I., insh.

Manufacturing electric equipment for excavators intented for use under humid tropical conditions. Stroi.i dor.mashinostr. no.7:32 Jl '59. (MIRA 12:11)
(Excavating machinery)

ANDRIANOV, Ye. I.

SOV/128-59-10-5/24

18(5)

AUTHORS: Bogachev, A.P., Burtsev, A.D., Lakedemonskiy, A.V., Lupanov, B.P., Andrianov, Ye.I., and Saguyy, V.V., Engineers

TITLE: Exothermic Mixtures for the Heating of Risers

PERIODICAL: Liteynoye proizvodstvo, 1959, Nr 10, pp 17-21 (USSR)

ABSTRACT: The authors present a report on research which has been made on exothermic mixtures for the heating of risers. The qualities of already-known exothermic mixtures were investigated at the beginning of the research. The exothermic mixtures were divided into three groups, according to their oxygen balance of thermite and their chemical and granulate consistence. Bushes which are made of thermite mixture with additions, with coke ashes and with coke dross, give different results during combustion. These results are depending on their consistence, as figs.1-7 show. Table 1 shows different mixtures, their granularity and the percentage of different components. The technology of preparing materials for mixtures is not complicated. Aluminum chips and dross are at the same time exposed to crushing in grinding mills with the last

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sifting through sieves of 1.5 mm. The rest repeatedly goes through a grinding mill. The coke dross goes through a sieve of 6 mm. The The bushes (Fig.2) are produced in wooden core moulds (Fig.3). Special standards are elaborated for the dimensions of the bushes (Table 4). Exothermic bushes, which are used in combination with diaphragms, are made in the same core moulds as the usual ones. The difference is that they have a center piece in the lower part of the wooden inset which has the shape of the parting diaphragm and dimensions according to table 7. The exothermic mixtures which are used at MosZIL, are recommended for use in foundry production. A.P. Yurasov, M.I. Averbukh, M.I. Karlovich, P.S. Romanov, N.P. Gritsko, V.I. Zheltov and P.I. Fedorov participated in this study. There are 5 photographs, 3 diagrams and 9 tables.

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KAMINSKAYA, D.A., inzh.; BAZILEVSKIY, V.G., inzh.; KOSOVTSEV, I.S., inzh.; ANDRIANOV, Ya.I.

Improved electric drive of the E-2005 excavator. Stroi. i dor. mash. 6 no.3: 9-13 Mr '61. (MIRA 14:4)
(Excavating machinery--Electric driving)

VESELKIN, V.F.; ANDRIANOV, Ye.I.; DUBOV, L.V.

Over-all mechanization of the shop for initial wool processing. Biul.tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 17 no.3:56-58 '64.
(MIRA 17:9)

ANDRIANOV, Ye. S.

109-9-8/15

AUTHORS: Rzhevkin, K.S. and Andrianov, Ye. S.

TITLE: Compensation of Transistor Amplifiers (Korrektsiya usiliteley na poluprovodnikovykh triodakh)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol. ., Nr 9, pp.1157 - 1169 (USSR)

ABSTRACT: A grounded emitter amplifier stage is considered (see Fig.2). It is assumed that the internal resistances $r_б$, $r_к$ and $r_э$ of the transistor are independent of frequency but it is possible to take the frequency effects into account by shunting the collector resistance $r_к$ by a capacitance $C_к$ and by assuming that the current amplification factor α is approximately given:

$$\alpha = \frac{\alpha_0}{1 + j\frac{\omega}{\omega_{кр}}} \quad , \qquad (2)$$

where $\omega_{кр}$ is the cut-off frequency for α. The load impedance of the amplifier consists of a resistance $R_н$ and a parallel capacitance $C_н$. In order to simplify the

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Compensation of Transistor Amplifiers.

$$\omega_{\alpha} \simeq \frac{r_1 + r\frac{R_H}{r_K}}{r\left(1 + \frac{R_H}{r_K}\right)} \omega_{Kp} \quad , \qquad (11)$$

where $r = r_3 + r_6$. It is shown that the frequency band of the amplifier can be extended by : (1) employing a negative feedback in the emitter of the transistor (see Fig.4), (2) connecting a number of transistors in parallel, or (3) connecting an inductance in series with the load resistance. An expression for the gain of a feedback compensated amplifier is derived (see Eq.(15)) and the condition for the maximum flatness response is found. Expressions for the gain of an inductance compensated amplifier are derived for both the above cases (see Eqs.(30) and (36)) and the conditions of the maximum flatness response are determined. An experimental investigation of the compensating methods was carried out on a Soviet П1А transistor which has f_{Kp} of 190 kc/sec,

TROITSKIY, N.A.;ANDRIANOV, Yu.A.

Respiratory disorders in bronchial asthma. Terap. arkh. 30 no.4:3-11 Ap '58. (MIRA 11:4)

1. Iz gospital'noy terapevticheskoy kliniki (dir.-prof. N.A. Troitskiy) Ryazanskogo meditsinskogo instituta imeni I.P. Pavlova.
(ASTHMA, physiology,
resp. (Rus)

ANDRIANOV, Yu.A.; DANDUROV, M.I., prof., red.; BICHIKASHVILI, T., red. izd-va; DZOTSENIDZE, Sh., tekhn. red.

[Problems of the mechanization of quarrying operations in railroad transportation] Voprosy razvitiia mekhanizatsii kar'erov zheleznodorozhnogo transporta. Tbilisi, Gos. izd-vo "Sabchota Sakartvelo," 1960. 153 p. (MIRA 15:6)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Dandurov).
(Quarries and quarrying--Equipment and supplies)
(Railroads--Construction)

ANDRIANOV, Yuriy Aleksandrovich; TSAGURIYA, Aleksandr Viktorovich

[Mechanization of construction and road operations] [Mekhanizatsiia stroitel'nykh i dorozhnykh rabot. Tbilisi, TSodna] 1964. 258 p. [In Georgian] (MIRA 18:7)

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S/081/62/000/010/079/085
B166/B144

15.9430

AUTHORS: Andrianov, Yu. F., Burova, I. K., Budnevskaya, S. Ye.

TITLE: Rubber compounds based on chlorosulfonated polyethylene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 656, abstract 10P399 (Vestn. tekhn. i ekon. inform. N.-i in-t tekhn.-ekon. issled. Gos. Kom-ta Sov. Min. SSSR po khimii, no. 5, 1961, 31-34)

TEXT: To protect rubberized textiles from natural and ozone ageing they are faced with chlorosulfonated polyethylene (I) which is ~ 10 times better in this respect than nairite or butyl rubber. I is characterized by high resistance to crack growth, good wear resistance and endurance under multiple bending and satisfactory oil resistance. Sufficiently plastic compounds are got by using 10-15 parts by weight plasticizers or 5 parts by weight HK (NK) + 5 parts by weight plasticizer. The vulcanizing group (in parts by weight) is: S 0.25, captax 2, diphenyl guanidine 0.3. To prevent scorching I is treated on cold rolls (40-50°C) and is cooled immediately after blending. Fillers (particularly white carbon black)

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Rubber compounds based on ...

improve the technological properties of the compounds and the heat resistance of the vulcanization products but they affect the wear resistance adversely. The optimum amount of filler is 30-50 parts by weight. A coating 0.2 to 0.3 mm thick vulcanizes well onto a nairite rubberizing compound. Operational tests have confirmed the high resistance of I coatings to ageing and wear. [Abstracter's note: Complete translation.]

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ANDRIANOV, Yu.F.; BUROVA, I.K.; BUDLEVSKAYA, S.Ye.

Preparation of chlorosulfonylated polyethylene rubber mixtures which are near resistant and not susceptible to the aging in light and ozone. Kauch. i rez. 20 no.8:9-11 Ag '61. (MIRA 14:8)
(Rubber, Synthetic) (Polyethylene)

ANDRIANOV, Yu.F.; BUROVA, I.K.; GUR'YEVA, L.S.

Self-vulcanizing S-12 rubber adhesive for the gluing of rubberized materials made from butadiene-nitrile rubber. Kauch. i rez. 23 no. 3:49-52 Mr '64. (MIRA 17:5)

L 9082-65 EWT(m)/EPF(c)/EPR/EWP(j) Pc-4/Pr-4/Ps-4 AFETR RM/WW

ACCESSION NR: AP4026369 S/0138/64/000/003/0049/0052

AUTHORS: Andrianov, Yu. F.; Burova, I. K.; Our'yeva, L. S.

TITLE: Self-vulcanising rubber cement C-12 for cementing rubber and rubberized materials made from butadiene nitrile rubbers

SOURCE: Kauchuk i rezina, no. 3, 1964, 49-52

TOPIC TAGS: rubber, butadiene nitrile rubber, SKN 40, resin, resin FR-12, nairit, chlorinated nairit, channel carbon black, zinc oxide, ethylacetate, rubber cement

ABSTRACT: Cement C-12 was developed to eliminate the vulcanization step, thus avoiding the defects generated during vulcanization. It is compounded of a SKN-40 rubber fraction (containing chlorinated nairit, channel carbon black, zinc oxide, a softener and a hardener) and of 10% of resin FR-12 fraction. The mixture is dissolved in ethylacetate to form a 20-22% solution. This liquid cement should be used within 16-18 hours. Samples of fabrics coated with vulcanized butadiene-nitrile were glued with this cement either to each other or to steel or duralumin, and the adhesive strength was determined by several techniques. It was found that the adhesive strength increased with time and that after one day of aging the vulcanized rubber broke, while the cement layer held. The cement proved to be

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ACCESSION NR: AP4026369

stable at temperatures of 70° and -60°. Immersion for 1-10 days of C-12 cemented butadiene-nitrile-metal specimens in fuel T-1, gasoline-benzene, and the gasoline brand used in the manufacture of galoshes proved the cement to be stable, and the adhesive strength unaffected. Orig. art. has: 6 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00

SUB CODE: MT NO REF SOV: 000 OTHER: 000

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AM4038590 BOOK EXPLOITATION S/

Safronov, YU. P.; Andrianov, YU. G.; Iyevlev, D. S.

Infrared technology in space (Infrakrasnaya tekhnika v kosmose), Moscow, Voyenizdat, 1963, 133 p. illus., biblio. 8,000 copies printed.

TOPIC TAGS: infrared, infrared communication, infrared missile detection, infrared ground reconnaisance, infrared anti missile missile, quantum mechanical generator

PURPOSE AND COVERAGE: On 4 October, 1957, the Soviet people, with the launching of the first earth satellite, opened a new epoch in the history of human progress -- the epoch of the storming of limitless cosmic space. In a short time our country achieved great successes in the interests of all peoples of our planet. There is reason to say that in the future the investigation of space will proceed at accelerating tempos. Mankind can enter the attack on space only by concentrating all knowledge and experience of the preceding development of society at a high level. Among other new types of technology in conquering space, an important role goes to infrared technology which, along with radio and radar engineering, can be used for observation and communication in space. Also, as considered abroad, it can be used to solve a number of military tasks, for example: for early detection of ballistic rockets, for guidance, and, in the future, for the destruction of military objects.

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AM4038590

The description of the use of infrared technology in space was written from the data of the domestic and foreign open press. The book is intended for the officer staff of our armed forces.

TABLE OF CONTENTS [abridged]:

SUB CODE: DC, GM, NG SUBMITTED: 29May63 NR REF SOV: 020

OTHER: 025 DATE ACQ: 07May64

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SAFRONOV, Yu.P.; ANDRIANOV, Yu.G.

Experimental study of the scattering indicatrices of water fogs in the short-wave infrared part of the spectrum. Izv. AN SSSR. Ser. geofiz. no.12:1866-1868 D '63. (MIRA 17:1)

L 39323-65 EWT(d)/EWT(m)/EWP(w)/EWP(c)/EWA(d)/EWP(v)/EPR/T/EWP(t)/EWP(k)/EWP(b)/
ACCESSION NR: AP5007680 EWP(b)/EWP(l)/EWA(c) Pf-4 S/0032/65/031/003/0367/0369
JD/HW/EM

AUTHORS: Andrianov, Yu. Ye.; Lebedev, D. V.; Ovsyannikov, B. M.

TITLE: A method for strain testing small specimens at a temperature up to 1600C in a vacuum

SOURCE: Zavodskaya laboratoriya, v. 31, no. 3, 1965, 367-369

TOPIC TAGS: vacuum chamber, material, material strength, metal deformation, vacuum, plastic deformation, elastic deformation/ IRM 0.2 machine

ABSTRACT: A technique of strain testing microspecimens under vacuum (or in inert gas) at temperatures up to 1600C is described. The method employs the IRM-0.2 material testing device described by V. P. Konoplenko and D. K. Vinogradov (Zavodskaya Laboratoriya, No. 1, 1959). The basic machine parameters are: maximum load capacity 1000 kg, direct loading; scale divisions 0-200, 0-400, 0-600, 0-800, and 0-1000 kg; maximum temperature 1600C; vacuum pressure 1 x 10^{-4} mm Hg; deformation rates 1 and 2 mm/minute; automatic diagram recording; deformation scale 45:1; required potential at maximum test temperature 2 kilovolts. The machine permits measuring several stress parameters. Figure 1 on the Enclosure gives the definition of the variables describing the size of a test specimen. The optimal size of a test specimen was considered to be that size which allows the closest approximation of

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the test to standard conditions and allows the use of the recording devices for description of mechanical properties. Tests were performed to find the optimal specimen dimensions, and concrete recommendations are made for specification of temperature control and measurement during the testing. Results indicate that the prescribed methods are in complete accord with the standard testing routines prescribed in GOST 1497-61. Orig. art. has: 3 figures.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I. P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy)

SUBMITTED: 00 ENCL: 01 SUB CODE: MM

NO REF SOV: 002 OTHER: 000

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