

GUBERGRITS, A.Ya., prof. (Stalino, Donbass)

Vasiliï Parmenovich Obraztsov; on the 40th anniversary of his
death. Terap.arkh. 32 no.12:80-82 '60. (MIRA 14:2)
(OBRATSOV, VASILII PARMENOVICH, 1850-1920)

GUBERGRITS, A.Ya., prof.; MASHAGATOV, V.F., kand.med.nauk

Disorders of the cardiovascular system in certain diseases of the digestive system. Vrach. delo no.8:6-10 Ag '61. (MIRA 15:3)

1. Kafedra gospi'tal'noy terapii (zav. - prof. A.Ya. Gubergrits) Izhevskogo meditsinskogo instituta i kafedra fakul'tetskoy terapii Stalinskogo meditsinskogo instituta.

(BLOOD--CIRCULATION, DISORDERS OF)
(DIGESTIVE ORGANS--DISEASES)

GUBERGRITS, A.Ya., prof.

Clinical aspects of latent and masked chronic cholecystoangiocholitis and cholangiohepatitis. Sov.med. 25 no.2:53-57 F '61. (MIRA 14:3)

1. Iz gosital'noy terapevticheskoy kliniki Izhevskogo meditsinskogo instituta.

(BILIARY TRACT--DISEASES)

GUBERGRITS, A.Ya.; LESHCHINSKIY, L.A.

Treatment of stenocardia by local radon baths of high concentrations.

Vop. kur., fizioter. i lech fiz. kul't. 26 no.4:320-322 J1-Ag '61.

(MIRA 15:1)

1. Iz gosspital'noy terapevticheskoy kliniki (zav. - prof. A.Ya.

Gubergrits) Izhevskogo meditsinskogo instituta.

(ANGINA PECTORIS)

(RADON THERAPEUTIC USE)

BOREVSKAYA, B.D.; GUBERGRITS, A.Ya.; ZAKRZHEVSKIY, Ye.B.; FRANKFURT, A.I.

Ukrainian Academician M.M. Gubergrits; on the 75th anniversary
of his birth and the 10th anniversary of his death. Terap.arkh.
33 no.1:112-116 '61. (MIRA 14:3)
(GUBERGRITS, MAKES MOISEVICH, 1885-1951)

GUBERGRITS, A.Ya.

"Clinical aspects of collagen diseases" by A.I. Nesterov and
IA.A. Sigidin. Reviewed by A.IA. Gubergrits. Sov.med. no.3:152-
154 '62. (MIRA 15:5)
(COLLAGEN DISEASES) (NESTEROV, A.I.)
(SIGIDIN, IA.A.)

GUBERGRITS, A.Ya., prof.; LESHCHINSKIY, L.A.; RYABOV, V.I.

Study of the absorptive capacity of some sections of the gastro-intestinal apparatus in clinical conditions. Terap.arkh. no.8: 29-37 '62. (MIRA 15:12)

1. Iz gospi'tal'noy terapevticheskoy kliniki (nauchnyy rukovoditel' - prof. A.Ya. Gubergrits) Izhevskogo meditsinskogo instituta i fakul'tetskoy terapevticheskoy kliniki Donetskogo meditsinskogo institutaimeni A.M. Gor'kogo.

(ALIMENTARY CANCAL) (ABSORPTION (PHYSIOLOGY))

GUBERGITS, A. Ya., prof. (Donetsk)

Review of A.I. Geffer's book "Clinical lectures on internal diseases." Kaz. med. zhur. 4:83-84 JI.-Ag'63 (MIRA 17:2)

GUBERGRITS, A. Ya., prof. (Donetsk)

Changes in liver and biliary function in chronic colitis. Kaz.
med. zhur. no.5:10-11 S-0'63 (MIRA 16:12)

1. Fakul'tetskaya terapevticheskaya klinika Donetskogo meditsinskogo instituta i gosspital'naya terapevticheskaya klinika Izhevskogo meditsinskogo instituta.

GUBERGRITS, A.Ya., zasluzhennyy deyatel' nauki, prof. (Donetsk)

"Handbook on clinical hematology" by D.N.Ianovskii. Reviewed
by A.IA. Gubergrits. Vrach. delo no.8:154 Ag'63. (MIRA 16:9)
(HEMATOLOGY) (IANOVSKII. D.N.)

GUBERGRITS, Aleksandr Yakovlevich; LESHCHINSKIY, Lev Aleksandrovich;
NEYMAN, M.I., red:

[Rheumatic fever] Revmatizm. Izd. 2. Moskva, Meditsina, 1964.
40 p. (MIRA 17:4)

GUBERGRITS, A. Ya., prof. (Donetsk)

Clinical aspects and treatment of tuberculous peritonitis.
Vrach. delo no.1:73-76 Ja'64 (MIRA 17:3)

1. Fakul'tetskaya terapevticheskaya klinika Donetskogo meditsinskogo instituta i gosital'naya terapevticheskaya klinika Izhevskogo meditsinskogo instituta.

LESNICHLY, A.V. (Snezhnoye, Donetskoy oblasti); GUBERGRITS, A.Ya.. prof.,
nauchnyy rukovoditel' raboty

Determination of the glycoprotein components of the blood in
patients with silicotuberculosis. Vrach. delo no.3:58-61 Mr
'64. (MIRA 17:4)

BURCHINSKIY, G.I., prof.; BEYUL, Ye.A., kand. med. nauk;
VASILENKO, V.Kh., prof.; GUKASYAN, A.G., zasl. deyatel'
nauki, prof.; KARNAUKHOV, V.K., kand. med. nauk;
GUBERGRITS, A.Ya., prof.; LORIYE, I.F., prof.;
MEN'SHIKOV, F.K., prof.; PLOTNIKOV, N.N., prof.;
RABUKHINA, N.A., kand. med. nauk; RADBIL', O.S., prof.;
RYSS, S.M., prof.; SAL'MAN, M.M., kand. med. nauk;
SUKHININ, P.L., prof.; STEPANOV, P.N., prof.; FUNT, I.M.,
prof.; SHLAGUROV, A.A., prof.; TAREYEV, Ye.M., prof.,
otv. red.;

[Multivolume manual on internal diseases] Mnogotomnoe ru-
kovodstvo po vnutrennim bolezniyam. Moskva, Meditsina.
Vol.4. 1965. 667 p. (MIRA 18:1)

1. Deystvitel'nyy chlen AMN SSSR (for Tareyev, Vasilenko).
2. Chlen-korrespondent AMN SSSR (for Ryss).

GUBERGRITS, A.Ya., prof.; KRAKOVSKIY, N.I., prof.; IVANOV, S.S., dotsent;
LIDSKIY, A.T., prof., zasluzhennyy deyatel' nauki

Reviews and bibliography. Sov. med. 28 no.8:152-157 Ag '65.
(MIRA 18:9)

1. Chlen-korrespondent AMN SSSR (for Lidskiy).

GUBERGRITS, A.Ya., prof. (Donetsk)

Combined pharmacotherapy of peptic ulcer with consideration
to its complications in other areas of the digestive system.
Kaz. med. zhur. no.6:31-35 '62. (MIRA 17:5)

1. Fakul'tetskaya terapevticheskaya klinika Donetskogo meditsin-
skogo instituta i gosital'naya terapevticheskaya klinika Izhevskogo
meditsinskogo instituta.

GUBERGITS, A.Ya., prof.

State of digestive functions in the treatment of rheumatic fever. Sov. med. 28 no.10:10-14 O '65.

(MIRA 18:11)

1. Fakul'tetskaya terapevticheskaya klinika Donetskogo meditsinskogo instituta.

GUBER-GRITS, D.S.; NEYMARK, I.S.

Treating lumbosacral arachno-radiculitis by endolumbar air insufflation [with summary in French]. Zhur.nevr. i psikh. 57 no.10: 1269-1271 '57. (MIRA 10:12)

1. TSentral'naya psikhonevrologicheskaya bol'nitsa (nach. V.M. Yushtin) Ministerstva putey soobshcheniya.

(THERAPEUTICS

endolumbar admin. of air in lumbosacral arachno-radiculitis (Rus))

(NERVES, SPINAL, diseases,

lumbosacral arachno-radiculitis, endolumbar admin. of air in ther. (Rus))

(ARACHNOID, diseases, seam)

GUBER-GRITS, D.S. (Khar'kov)

Diseases of the lumbosacral region of the peripheral nervous system.
Med. sestra 19 no.7:23-28 J1 '60. (MIRA 13:8)
(NERVES, SPINAL--DISEASES)

GUBER-GRITS, D.S. (Khar'kov)

Secondary radiculitis and spondylitis deformans. Med.sestra 21
no.12:9-13 D '62. (MIRA 16:4)
(NERVES, SPINAL--INFLAMMATION)
(SPINE--ABNORMITIES AND DEFORMITIES)

GUBERGRITS
BLAGODATOV, S., inzhener; GUBERGRITS, L., inzhener.

Large poultry sections in Rostov Province. Sel'.stroi.
11 no.10:2-3 0 '56. (MLRA 9:12)

1. Rostovskoye oblastnoye upravleniye po stroitel'stvu v
kolkhozakh.

(Rostov Province--Poultry)
(Poultry houses and equipment)

GUBER-GRITS, David Salomonovich; GOTOVTSEV, P.I., red.; LYUDKOVSKAYA,
N.I., tekhn.red.

[Diseases of the lumbosacral section of the peripheral nervous
system] Zabolevaniia poissnichno-kresttsovogo otdela peroferi-
cheskoi nervnoi sistemy. Moskva, Gos.izd-vo med.lit-ry Medgiz,
1960. 216 p. (MIRA 14:3)

(NERVES, SPINAL--DISEASES)

CHEREMISIN, V. A., KURKOVA, V. B., KALIKOV, V. A., L. I. TROITSKY, V. A.,
KONNEN, T. P., SHAYKHUA, A. P., G. I. GIL, A. B. TROITSKY, V. A.,
LEONOV, G. A., KOLIKOV, K. K., KURKOVA, V. B.

"New data on the Tula fever with a renal syndrome, and the natural
reservoirs of this infection." p. 124.

Dasyafoya soveshchaniya po parazitologicheskim problemam i prirodoopoznavaniyu
bol'sh-nuzn. 22-29 Okt'yabrya 1959 g. (Tenth Conference on Parasitological
Problems and Biaseses with Natural Feels 22-29 October 1959, Moscow-Leningrad,
1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 24pp.

GUBERGRITS, M.A.; KUSHCHENKO, V.G.; TARASINSKIY, Ya.Ya.

Case of hemorrhagic fever with a renal syndrome in Kholm District,
Novgorod Province. Zhur.mikrobiol.epid.i immun. 31 no.9:138-139
§ '60. (MIRA 13:11)

(KHOLM DISTRICT--HEMORRHAGIC FEVER)

GUBERGRITS, M. M.

DECEASED

Medicine

See ILC

LYSENKO, A.Ya.; MERINOV, V.A.; GOZODOVA, G.Yo.; ALMAZOVA, V.V.;
GUBERGRITS, M.V.

Topographical and malariological characteristics of the western
Pamirs. Sbor. rab. po mal. i gel'min. no.2:71-79 '59.

(MIRA 15:3)

(PAMIRS—MALARIA)

LYSENKO, A.Ya.; GOZODOVA, G.Ye.; Primali uchastiye: MOSKOVICH, I.Ya.;
GUBERGRITS, M.V.

Chemoprophylaxis of tertian and tropical malaria with chlori-
dine in malaria centers with different levels of communi-
cability. Sbor. rab. po mal. i gel'min. no.2:205-213 '59.
(MIRA 15:3)

(TAJIKISTAN--MALARIA)
(DARAPRIM)

SCHEKUNOVICH, V.B.; GUBERGRITS, M.V.

Effect of hyaluronidase on the infection of rats with different strains of *Entamoeba histolytica*. Med. paraz. i paraz. bol. 34 no. 5:586-589 S-O '65 (MIRA 19:1)

1. Otdel protozoologii Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Martsinovskogo Ministerstva zdравo-okhraneniya SSSR. Submitted July 10, 1965.

L 08047-67 EWT(1)
ACC NR: AP6032240

SOURCE CODE: UR/0023/66/000/003/0462/0472

AUTHOR: Gubergrits, M.; Brodsкая, B. -- Brodsкая, B.; Paal'me, L. -- 27
Paalme, L. B

ORG: Institute of Chemistry, Academy of Sciences, Estonian SSR (Institut khimii Akademii nauk Estonskoy SSR)

TITLE: Dosimetric evaluation of the electrical pulse discharge effect on aqueous media

SOURCE: AN EstSSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 3, 1966, 462-472

TOPIC TAGS: aqueous solution, radiation chemistry, sulfuric acid, electric pulse, pulse discharge

ABSTRACT: A study has been made of the overall physical and chemical effect of electrical pulse discharge on aqueous media by some dosimetric chemical systems widely used in radiation chemistry. The experimental investigation deals with three such systems: the Fricke dosimeter (a sulfuric acid solution containing ferrous ions), an aerated neutral aqueous solution of methylene blue, and neutral aerated

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Purifying coke-oven gas from sulfur. V. I. Dal and M. Ya. Gubergits. <i>Teoriya Prakt. Met.</i> 12, No. 10, 20-3 (1960). - Purification by means of FeO, absorption in Na_2CO_3 soln., and the Thylus process (cf. Gollmar, C. A. 28, 18419) are compared. The Thylus process is preferred. W. R. Henn 11 references.			
ASS. I. L. A. METALLURGICAL LITERATURE CLASSIFICATION			
FROM LITERATURE		FROM BOWLING	
SOURCES		SOURCES	

GUBERGGRITS, M. Ya.
 The use of blast-furnace slag for purification of coke gas
 A. E. Shkol'man and M. Ya. Gubergrits. *J. Chem. Ind.*
 (U. S. S. R.) 18, No. 3, 1957, 117-118. Blast-furnace slag
 can replace wood shavings as a filler in purification of coke-
 oven gases from NO and H₂S. At linear gas speeds of 24
 mm./sec. it removes 50-60% NO and 30-50% H₂S. In
 the absence of H₂S, NO removal is higher. The phys. form
 of the slag is not changed, and the slag can be regenerated
 by passing pure air over it for 27 hrs. at 20-30°. Addn of
 lime to the slag does not improve its properties.
 H. M. Leicester

COMMON ELEMENTS										COMMON VARIABLES INDEX									
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GUBERGERTS, M. Ya. 20																			
Mixing of Gases and Combustion in the Heating System of Coke Ovens. (In Russian.) A. A. Agruskin and M. Ya. Gubergerts, <i>Izvestiya Akademii Nauk SSSR</i> (Bulletin of The Academy of Sciences of the USSR), Section of Technical Sciences, Nov. 1940, p. 1626-1641. Basic phenomena playing a leading role in the complex process of heating the vertical combustion chambers of coke ovens were investigated, using theoretical and experimental data from related branches of science and technology, particularly aerodynamics. Methods of attaining uniformity of heating based on regulation of the process of combustion were investigated. 26 ref.																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																			
Source: Engineering										Source: Chemistry									
Language: English										Language: Russian									
Abstract: Yes										Abstract: No									
Indexing: Yes										Indexing: No									
Notes: Yes										Notes: No									
References: Yes										References: No									
Summary: Yes										Summary: No									
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GUBERGITS, M.Ya.																									
1692. MIXING OF GASEOUS STREAMS IN HEATING PASSAGES OF COKE OVENS. Gubergits, M.Ya. (Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. (Bull. Acad. Sci. U.S.S.R. Sect. Tech Sci), May 1950, (5), 695-701). The mixing of two gaseous streams, representing blast furnace gas and air was observed in a 1/5th scale model of the passages in coke ovens made from transparent plastic. A visual impression was given by colouring one of the streams with smoke. Quantitative results were obtained by taking gas samples from different heights.																									
Power Inst in Kuzhghenovskiy, AS USSR																									
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168T36

GUBERGITS, M. Ya.

USSR/Fuel - Coking

Jul 50

"Investigation of Recirculation of Combustion Products in a Coke Oven," M. Ya. Gubergits, Izv. Akad. Nauk SSSR, Otdel. Tekh. Nauk, No. 7, pp. 1016-1023, 1950.

Describes investigations conducted with aid of isothermal air model of coke oven made of transparent plastic on 1:5 scale. Aim was to study characteristics of process of mixing gas currents.

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USSR/Fuel - Coking (Contd)

Jul 50

along height of model during prescribed coking period (18 hr), dependence of mixing process on length of coking period (14, 18, and 24 hr), and influence of coking period on coefficient of recirculation. Submitted by Acad. N. P. Chizhevskiy.

168T36

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of solid mineral fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5464

Author: Gubergits, M. Ya.

Institution: Academy of Sciences Estonian SSR

Title: Thermal Calculations of the Process of Semicoking of Shale in a Shaft Generator

Original

Publication: Eesti NEV Teaduste Akad. Toimetised, Izv. AN EstSSR, 1955, 4, No 4, 609-618

Abstract: Procedures for the evaluation of the intensity of heat emission process in shaft generators utilizing shale, are considered. It is noted that in the process of semicoking of shale the predominant part is played by heat emission as a result of forced convection and therefore the criterion of process intensity is the value of coefficient of convection heat emission. Comparison of the results of solutions of external and internal problems led to the computation formula for

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of solid mineral fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5464

Abstract: determination of the active heat-intaking surface of lump shale:
 $S_a = 4.63 (1-m)/d_{cp} m^2/m^3$, where $m (\leq 0.4)$ -- severance of the layer and d_{cp} -- average diameter of the lumps. Analysis of fundamental equations of heat exchange shows that further intensification of the process of heat emission can be attained by means of an increased extent of preheating of the heat carrier, increase of velocity and amelioration of the conditions of its distribution within the layer of lump material.

Card 2/2

CUBERGRITS, M. Ya.

2

✓ 5426. PROCESS OF GASIFICATION IN A SHAFT SHALE GAS PRODUCER.
Cubergrits, M. Ya. and Pealme, L. P. (Tallin: Estonian Govt., 1954, 4111
Shales: Chemistry and Technology", Iss. 2, 35-40; abstr. in Ref. Zh. Khim.
(Ref. J. Chem., Moscow), 1957, (9), 31842). Material balances are
constructed and analysed and suggestions made for improving the process.

GOBERGITS, M. A.

1447. REGIME OF SHALT-TYPE SHALE GAS PRODUCERS. Guberbits, M. A. et al. (Tallin: Estonian Government, 1956, "Oil Shales: Chemistry and Technology," Iss. 2, 83-90; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow) 1957, 28, 27931). The operation of producers for the low temperature utilization of shale was examined, when running on low grade shale. Output was increased by increasing the quantity of fuel per unit of cross-section of shaft, by increasing the air blast, and by regulating the height of the reacting bed in the shaft. Uniform descent of the shale over the cross section can be achieved by modifying the shape of the producer and providing mechanical removal of ash.

GUBERGITS, M.
USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31842

Author : Gubergits M. Ya., Paal'me L.P.

Title : Process of Gas-Formation in a Shale Shaft-Generator.

Orig Pub: Sb.: Goryuchiye slantsy. Khimiya i tekhnologiya,
No 2, Tallin, Est. gos. izd-vo, 1956, 33-40

Abstract: An analysis of data derived by balance studies
of operation of shale gas shaft-generators
(material balance of the process, balance of
CO₂, O₂, organic matter), on the basis of which
the mechanism of processes which take place in
the gas generators, is considered, and views are

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USSR /Chemical Technology. Chemical Products
and Their Application

-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31842

expressed concerning improvements in design of the generators and of the technological process taking place therein; to decrease the extent of combustion of volatiles in the gas generators, it is proposed to feed into them low grade carbonaceous materials (for example heavy coal-tar products from gas generators and tunnel furnaces).

Card 2/2

GUBERGRITS, Mark Yakovlevich

AARNA, A.Ya. [Aarna, A.J.], doktor tekhnicheskikh nauk, retsenzent; KULL', B. [Kull, B.], kandidat ekonomicheskikh nauk, retsenzent; KYLL', A.T. [Kyll, A.T.], redaktor; KIVIT, A.A., redaktor; MIKHELIS, K.A. [Mihelis, K.A.], redaktor; GUBERGRITS, Mark Yakovlevich, redaktor; ROGINA, G.M., vedushchiy redaktor; YASHCHURZHIKAYA, A.B., tekhnicheskiiy redaktor

[Engineering and economic problems of industrial semicoking of combustible shale; a collection of papers] Voprosy tekhniki i ekonomiki promyshlennogo polukoksovaniia goriuchikh slantsev; sbornik statei. Leningrad, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1957. 337 p. (MLRA 10:7)

1. Kivioli Polevkiiviksania Kombinaat.
(Oil shales)

GUBERGRITS, M. Ya.

fine production of large rounded crystals of ammonium sulfate at by-product plants. V. I. Dol. (D. S. Gubergits and M. Ya. Gubergits (Chem. Technol. Ind. Inventions, 1957, No. 8, 38-48). Much of the sulfate produced at present in Russian by-product plants is unsatisfactory for agricultural use because of its tendency to form lumps, owing to high moisture and acid content, 2% and 0.5%, resp., and to its angular or lamellar crystal form. Moreover, its high percentage of fine crystals renders it liable to rapid leaching from the soil by heavy rains. Conditions verified by exptl. results are set forth for obtaining a product more acceptable with respect to size and shape: (a) maintenance of a high and uniform supersat. of the mother liquor to prevent the formation of zones of local supersat. that promote the mass appearance of very small crystals, attained by increasing the rate of mech. stirring and the rate of equiv. gas and acid feed to the saturator; (b) maintenance of homogeneity of the concn. of the components of the saturator; (c) maintenance of optimum values of crystal surface for each concrete case; (d) settling up of count; and strict limits of acid in the mother liquor which should not exceed the limits established for preventing abnormal loss of NH_3 ; (e) maintenance of const. temp., as low as possible without deviation from the established law limit.

M. Ya.

SUBJECT: USSR/Fuel, Oil Shale

23-2/8

AUTHORS: Gubergrits, M.Ya., Candidate of Technical Sciences, and Kuiv,
K.A.

TITLE: Investigation of the Dynamics of Kukersite-Oil Shale Heating with
One-Sided Heat Supply (Izucheniye dinamiki nagreva slantsa-
kukersita pri odnostoronnem podvode tepla)

PERIODICAL: Izvestiya Akademii Nauk Estonskoy SSR, Seriya Tekhnicheskikh
i Fiziko-Matematicheskikh Nauk, 1957, # 3, pp 219-228 (USSR).

ABSTRACT: The process of oil shale thermal treatment is closely connected
with time-changes of temperature field characteristics, both in
a single piece and in some section of lump (or granular) material.

The present article describes and discusses results of an ex-
perimental investigation of the dynamics of a thermal field
changing in a lump and in a layer of granular oil shale under
condition of linear propagation of the thermal flux. In prac-
tice, the problem is reduced to the reproduction of temperature
field changes in a semi-bounded rod with one-sided heat supply.
The thermal flux propagates along the normal to the isothermal
heating surface.

Card 1/2

23-3-2/8

TITLE: Investigation of the Dynamics of Kukersite-Oil Shale Heating with One-Sided Heat Supply (Izucheniye dinamiki nagreva slantsa-kukersita pri odnostoronnem podvode tepla)

The practical application of the results obtained is possible for the case of studying heat emission in an oil shale layer subjected to underground gasification.

The characteristics of the temperature field are considered for two thermal regimes: the unsettled and stationary regimes.

The article contains 8 graphs and 1 table, as well as 9 references, all Slavic.

ASSOCIATION: Institute of Chemistry of the Estonian Academy of Sciences.

PRESENTED BY:

SUBMITTED: On 2 April 1957

AVAILABLE: At the Library of Congress.

Card 2/2

Gubergrits, M. Ya.

23-4-1/18

AUTHOR: Gubergrits, M. Ya., Candidate of Technical Sciences

TITLE: Some Problems of the Semi-Infinite Seam Theory at the Underground Gasification of Shale by Means of the Combined Method (Nekotoryye voprosy teorii polubeskonechnogo plasta pri podzemnoy gazifikatsii slantsa po kombinirovannomu metodu)

PERIODICAL: Izvestiya Akademii Nauk Estonskoy SSR, Seriya Tekhnicheskikh i Fiziko-Matematicheskikh Nauk, 1957, # 4, pp301-312 (USSR)

ABSTRACT: This article deals with some theoretical and experimental questions of the hydrodynamics of the so-called combined method of oil-shale underground gasification. The applicability of the semi-infinite seam theory is studied in order to give a method of mathematical description of an underground chamber, that is an oil-shale seam system, under various conditions and in a balanced hydrodynamic state. Under this name is understood to be such a state as when the blast air is brought in at a low compression and the gas is exhausted at a low depression.

Card 1/2 A gas-phase balance equation is given to define the blast air leakage as a function of various factors at a nonisother-

23-4-1/18

Some Problems of the Semi-Infinite Seam Theory at the Underground Gasification of Shale by Means of the Combined Method

mal state. Finally, a theoretical conception is proposed to explain the nature of phenomena under a balanced hydrodynamic state. Approximate equations are formulated to define the relative permeability of a granular bed in the underground chamber and in the surrounding rock at different zones of the whole system.

Recommendations are given for conducting further investigation of some phenomena by means of isothermic models with a view of developing a scientific method of hydrodynamic calculation for the underground gasification process.

The article contains 2 figures, 5 graphs, 4 tables, and 10 Russian references.

ASSOCIATION: Academy of Sciences of the Estonian SSR, Institute of Chemistry

SUBMITTED: 2 August 1957

AVAILABLE: Library of Congress

Card 2/2

GUBERGRITS, M.Ya., kand. tekhn. nauk; BRODSKAYA, B.Kh., kand. tekhn. nauk

Present state and prospects for expanding research on underground gasification of oil shale in the Baltic regions. Podzem. gaz. ugl. no.1:3-9 '59. (MIRA 12:6)

1. Institut khimii AN Estonskoy SSR.
(Baltic Sea region--Oil shales)
(Coal gasification, Underground)

GUBERGRITS, M.Ya., kand.tekhn.nauk; BRODSKAYA, B.Kh., kand.tekhn.nauk;
MIL'K, A.A. [Milk, A.A.]; PAAL'ME, L.P. [Paalme, L.P.]

Effect of gas evacuation conditions on the output and composition of the product of thermal decomposition of Kukker-site-shale blocks. Podzem.gaz.ugl. no.4:25-29 '59.
(MIRA 13:4)

(Estonia--Shale) (Coal gasification, Underground)

GUBERGRITS, M. A., kandidat tekhnicheskikh nauk

Influence of heating conditions on the distribution of oil shale thermal decomposition products. In Russian. Eesti tead akad tehn fons 9 no.4:343-357 '60. (EAI 10:7)

1. Institut khimii Akademii nauk Estonskoy SSR.
(Shale)

GUBERGRITS, M.Ya., kand.tekhn.nauk; BRODSKAYA, B.Kh., kand.tekhn.nauk;
PAALME, L.P. [Paalme, L.], kand.tekhn.nauk; KUYV, K.A. [Kuiv, K.]

Decomposition of kukersite under the action of spark discharges
in a liquid medium. Eesti tead akad tehn fuus no.3:234-243 '61.

1. Academy of Sciences of the Estonian S.S.R., Institute of
Chemistry.

GUBERGITS, M.Ya.; POLAK, L.S.; BRODSKAYA, B.Kh.; KUYV, K.A.; EMIN, Yu.B.

Electron paramagnetic resonance spectra of Baltic combustible shales.
Dokl. AN SSSR 136 no.4:824-827 F '61. (MIRA 14:1)

1. Institut neftekhimicheskogo sinteza Akademii nauk SSSR i
Institut khimii Akademii nauk Estonskoy SSR. Predstavleno aka-
demikom A.V. Topchiyevym.
(Shale—Spectra)

GUBERGRITS, M. Ya.; KUIV, K. A.; VOLL, M. A.

"Thermal properties of shale-kuckersite."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk,
4-12 May 1964.

Inst of Chemistry, AS ESSR

GUBERGRITS, Ye.A.

Effect of radon bath treatments on the prothrombin content of the
blood. Vrach.delo no.5:475-477 My '59. (MIRA 12:12)

1. Propedevticheskaya terapevticheskaya klinika (zav. - prof. B.D.
Borevskaya) Izhevskogo meditsinskogo instituta.
(RADON--THERAPEUTIC USE) (PROTHROMBIN)

BOREVSKAYA, B.D., prof.; GUBENGRITS, Ye.A.

Treatment of chronic diseases of the bile ducts (cholangio-hepatitis) with artificial radioactive baths combined with dietary regimen. Vrach. delo no.11:133-135 N '61. (MIHA 14:11)

1. Propedevticheskaya terapevticheskaya klinika (zav. - prof. B.D.Borevskaya) Izhevskogo meditsinskogo instituta.
(BILE DUCTS--DISEASES) (RADON--THERAPEUTIC USE)

BABKOV, N.; MOSYAGIN, D., inzh.; KRASIL'NIKOV, V.; DEMIDOV, A., tekhnik;
GRISHIN, K., tekhnik; GUBER-GRUB, S., inzh.

Letters to the editor. Stroitel' no.12:14 D '59.
(MIRA 13:3)

1. Upravlyayushchiy stroytrestom No.14, g.Molodechno (for
Krasil'nikov).
(Building)

GUBERMAN, B.F., inzhener.; ~~SEREBRO~~ BRO, V.S., inzhener.

Centering mold boxes. Sel'khoz mashina no.4:30-32 Ap '57. (MLRA 10:4)
(Founding)

GUBERMAN, D. YU.

23835 OB ISPOL'ZOVANII VNUTRENNIKH RESURSOV. POLIGR. PROIZVODSTVO,
1949, NO. 4, S. 6-7

SO: LETOPIS' NO. 31, 1949

S/133/60/000/012/014/015
A054/A027

AUTHORS: Guberman, B.F., Engineer and Kerdman, F.M., Engineer

TITLE: Steel for Cold Upsetting

PERIODICAL: Stal', 1960, No. 12, p.1150

TEXT: The following comments are made on the article of N.A. Smol'yaninov, Engineer and I.G. Shumakov, Engineer, published in Stal', 1959, No. 12:
1) In the named article dealing with the technology of steel for cold upsetting the authors discuss the possibilities of obtaining up to 90% progressive deformation of the steel, whereby the engineering industry could be supplied with steel of high plasticity for the manufacture of various products by cold upsetting. According to the equation (1) given in this article:

$$q = \left(1 - \frac{d^2}{D^2} \right) \cdot 100 \quad (1)$$

The 90% index corresponds with the relation between the square of the diameter of the initial material (d^2) and the square of the upset diameter (D^2) which is 1:10, i.e., corresponding with the relation between the height of the sample after and before upsetting (h_1 and h , respectively). The authors refer to the Card 1/3

Steel for Cold Upsetting

S/133/60/000/012/014/015
A054/A027

index $\frac{h_1}{h} = \frac{1}{2}$ prescribed by GOCT (GOST) 5663-51 but do not mention that this index is unsatisfactory and should be modified because in the production of bolts by cold upsetting the relation $\frac{d^2}{h}$ or $\frac{h_1}{h}$ already amounts to 1/5 while for samples, of course, a still higher $\frac{d^2}{h}$ degree of deformation should be obtained. 2) No technico-economical data are given in the article of the process recommended by the authors. The plastic properties of various steels: low-silicon killed steel, rimming steel with a limited zone of segregation (not exceeding 40% of the cross section of the product) and heat-treated killed steel with normal silicon content are not compared. The economic indices of three described methods of steel production for cold upsetting are not compared either and it is consequently not possible to evaluate the method recommended by the authors which is based on special thermal treatment. 3) The article describes a method of processing wire rods, 6.5 mm in diameter, to make wires for cold upsetting. However, a great many products of relatively large diameter still are manufactured, mainly M24 nuts from 32 mm wire rods, to which the recommended method cannot be applied. When establishing a technology for producing cheap steel of high plasticity for cold upsetting it is evident that this technology will also be applicable to 6.5 mm wire rods and it seems most uneconomical and

Card 2/3

Steel for Cold Upsetting

S/133/60/000/012/014/015
A054/A027

irrational to establish two technologies, for larger diameter steel rods and wire rods. Although the problem of producing suitable steel for cold upsetting is continuously discussed in Stal' and other metallurgical periodicals, no satisfactory steel has so far become available to the factories manufacturing products by cold upsetting.

Card 3/3

✓

GUBERMAN, B.F., inzh.; SHMARTS, M.B., inzh.

Using metalloceramic bushings in plow wheels. Trakt. i
sel'khoz mash. no.1:28-30 Ja '64. (MIRA 17:4)

1. Spetsial'noye konstruktorskoye byuro zavoda imeni
Oktyabr'skoy revolyutsii.

VOLODCHENKO, K.G.; GUBERMAN, D.M.; MOSTINSKIY, T.I.

Analysis of the operating results of hard-faced drill bits and their efficiency in use. Razved. i okh. nedr 26 no.9:31-33 S '60.

(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Boring machinery)

GUBERMAN, David Mironovich; KRYZHANOVSKIY, V.A., red. izd-va;
IYERUSALIMSKAYA, Ye., tekhn. red.

[Handbook on safety measures in deep test drilling for oil and
gas] Posobie po tekhnike bezopasnosti pri glubokom razvedochnom
burenii na neft' i gaz. Moskva, Gosgeoltekhizdat, 1962. 49 p.
(MIRA 16:1)

(Boring--Safety measures)

AUTHOR: Guberman, F. S. (Engineer). 100-57-12-9/11
TITLE: Road Roller DM-85 With Vibration Action. (Vibrokatok DM-85).
PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, Nr.12. P.26 (USSR)
ABSTRACT: The Shcherbakov factory for road building machines is manufacturing the above roller according to the design of the VNIISTroydormash. The roller should consolidate asphalt-concrete and macadam road surfaces of new as well as repaired roads. The roller is driven by a two-cylinder light engine connected to the vibrating mechanism in the front of the roller. The effect of vibration is equivalent to a static roller weighing 6 - 10 tons. Specifications and technical data are given. The machine was tested and approved in 1957. There is 1 illustration.

AVAILABLE: Library of Congress.

1. Road building equipment
2. Rollers-Design
3. Vibration mechanisms

Card 1/1

NEMIROVSKIY, Ya.I., inzh.; GUBERMAN, F.S., inzh.

Foreign machinery for soil stabilization. Stroi. i dor. mashinostr
3 no.5:35-38 My '58. (MIRA 11:6)
(Soil stabilization) (Earthwork)

PETUKHOV, P.Z., doktor tekhn.nauk; GURIN, M.A., kand.tekhn.nauk; GUBERMAN, F.S.;
MAKEYEV, A.V.; KISELEV, B.N.

Vibratory percussion ripper. Biul.tekh.-ekon.inform.Gos.nauch.-issl.
inst.nauch.i tekhn.inform 17 no.11:57-58 N '64.

(MIRA 18:3)

ITSKOV, Ye.D., inzh.; MAKEYEV, A.V., inzh.; GUBERMAN, F.S., inzh.;
GURIN, M.A., kand. tekhn. nauk

The VP-25 vibratory-percussion machine for loosening frozen
grounds. Stroi. i dor. mash. 10 no.9:5-6 S '65.

(MIRA 18:10)

LALAYANTS, A.M., redaktor; ABRAMYAN, A.A., redaktor; GUBERMAN, I.D., redaktor, DOKUNIN, A.V., redaktor; ZASADYCH, B.I., redaktor; IVAMENKO, G.I., redaktor; LETOV, N.A., redaktor; MELAMED, Z.M., redaktor; LIVSHITS, I.I., LOKSHIN, V.A., redaktor; MONIN, G.I., redaktor; SUMCHENKO, V.A., redaktor; TOPCHIEV, A.V., redaktor; SHEVALDIN, A.S., redaktor; SIROVA, V.A., redaktor; ANDREYEV, G.G., tekhnicheskij redaktor; PROZOROVSKAYA, V.L., tekhnicheskij redaktor.

[Materials and equipment used in the coal industry; a reference manual]
Materialy i oborudovanie, primenyaemye v ugol'noi promyshlennosti;
spravochnik. Moskva, Ugletekhizdat. Vol.1. [Materials] Materialy. Pt.2.
1955. 544 p. (MIRA 9:5)

(Coal mines and mining--Equipment and supplies)

SECRETARY, ID

LALAYANTS, A.M., glavnyy redaktor; ABRAMYAN, A.A., otvetstvennyy redaktor;
GUBERMAN, I.D., redaktor; DOKUKIN, A.V., redaktor; ZASADYCH, B.I.,
redaktor; LETOV, N.A., otvetstvennyy redaktor; LIVSHITS, I.I.,
redaktor; LOKSHIN, V.A., redaktor; MELAMED, Z.M., redaktor; MONIN,
G.I., redaktor; SUMCHENKO, V.A., redaktor. TOPCHIYEV, A.B., redak-
tor; SHEVALDIN, A.S., redaktor; YEGURNOV, G.P., redaktor; LYUBIMOV,
N.G., redaktor izdatel'stva; ANDREYEV, G.G., tekhnicheskiy redaktor;
PROZOROVSKAYA, V.L., tekhnicheskiy redaktor.

[Material and eqyipment used in the coal industry; a reference
manual] Materialy i oborudovanie, primeniayemye v ugol'noi pro-
mushlennosti; spravochnik. Moskva, Ugletekhizdat. Vol.2. [Equip-
ment] Oborudovanie. Pt.1. 1956. 455 p. (MIRA 10:4)

(Coal mines and mining--Equipment and supplies)

GUBERMAN, I. D.

LALAYANTS, A.M., redaktor; ABRAMYAN, A.A., redaktor; GUBERMAN, I.D., redaktor;
DOKUKIN, A.V., redaktor; ZASADYCH, B.I., redaktor; LETOV, W.A.,
redaktor; LIVSHITS, I.I., redaktor; LOKSHIN, V.A., redaktor; MELAMED,
Z.M., redaktor; MONIN, G.I., redaktor; SUMCHENKO, V.A.; TOPCHIEV, A.V.,
redaktor; SHEVALDIN, A.S., redaktor; YEGOROV, G.P., redaktor;
LYUBIMOV, N.G., redaktor izdatel'stva; PROZOROVSKAYA, V.L., tekhnicheskii redaktor

[Materials and equipment used in the coal industry; a reference manual]
Materialy i oborudovanie, primenyaemye v ugol'noi promyshlennosti;
spravochnik. Moskva, Ugletekhizdat. Vol.2. [Equipment] Oborudovanie.
Pt.2. 1957. 485 p. (MLRA 10:9)
(Coal mining machinery)

LALAYANTS, A.M., glavnyy red.; ABRAMYAN, A.A., red.; GUBERMAN, I.D., red.;
DOKUKIN, A.V., red.; ZASADYCH, B.I., red.; LETOV, N.A., red.;
LIVSHITS, I.I.; LOKSHIN, V.A.; MELAMED, Z.M.; MONIN, G.I.; SUMCHENKO,
V.A.; TOPCHIEV, A.V.; SHEVALDIN, A.S.; YNGURNOV, G.P., red.;
LYUBIMOV, N.G., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.

[Materials and equipment used in the coal industry; a handbook]
Materialy i oborudovanie, primenyaemye v ugol'noi promyshlennosti;
spravochnik. Moskva, Ugletekhizdat. Vol.2. [Equipment] Oborudovanie.
Pt.3. 1957. 655 p. (MIRA 11:2)
(Coal mines and mining--Equipment and supplies)

GRAFOV, L.Ye., red.; GUBERMAN, I.D., red.; ZADEMIDKO, A.N., red.; ZASYAD'KO, A.F., red.; KRASHNIKOVSKIY, G.V., red.; KUZ'MICH, A.S., red.; LALAYNTS, A.M., red.; MEL'NIKOV, L.G., red.; MINDELI, E.O., kand. tekhn.nauk; ONIKA, D.G., doktor tekhn.nauk, red.; PANOV, A.D., red.; POCHENKOV, K.I., red.; TERPIGOREV, A.M., akademik, red.; USKOV, A.A., red.; KHARCHENKO, A.K., red.; SACHEDRIN, M.A., red.; BOYKO, A.A., red.; MELAMED, Z.M., kand.tekhn.red.; PERVUKHIN, A.G., red.; BARABANOV, F.A., red.; SOSNOV, G.A., red.; TSYPKIN, V.S., red.; ALADOVA, Ye.I., tekhn.red.

[Restoration of the coal industry in the Donets Basin] Vosstanovlenie ugol'noi promyshlennosti Donetskego basseina. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po ugol'noi promysl. Ugletekhizdat. Vol.1. 1957. 371 p. Vol.2. 1957. 782 p. (MIRA 11:4)
(Donets Basin--Coal mines and mining)

RAYKHER, Moisey Yefremovich, prof.; GUBERMAN, Issak Davidovich, kand.
tekhn.nauk; LYUBARSKIY, I.L., otv.red.; GOLUBYATNIKOVA, G.S.,
red.isd-vs; PROZOROVSKAYA, V.L., tekhn.red.

[Principles for norm setting for material expenditures in coal
mining] Osnovy normirovaniia raskhoda materialov v ugol'noi
promyshlennosti. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po
gornomu delu, 1960. 157 p. (MIRA 13:10)
(Coal mines and mining--Equipment and supplies)

SALGUS, Konrad Ansovich; GUBERMAN, I.D., otv. red.; MIKOSHINICHENKO,
V.D., red.izd-va; SHKLYAR, S.Ya., tekhn. red.

[Handbook on lumber used in the mining industry] Spravochnik
v gornoj promyshlennosti. Moskva, Gosgortekhnizdat, 1961. 301 p.

(MIRA 15:10)

(Mining engineering--Equipment and supplies) (Lumber)

GUBERMAN, I.D.

Scientific coordination conference on problems of mining economics.
Ugol' 36 no.8:57-59 Ag '61. (MIRA 14:9)
(Coal mines and mining)

SUPAKOV, A.V., inzh.; GUBERMAN, I.M., inzh.

Innovators of the depot will save 600,000 rubles during
the first year of the seven-year plan. Elek.i tepl.tiaga
3 no.9:5-7 S '59. (MIRA 13:2)

1. Depo Dema, Kuybyshevskaya doroga.
(Dema (Bashkiria)--Railroad engineering)

SOV/124-59-1-752

Translation from: Referativnyy zhurnal. Mekhanika, 1959, Nr 1, p 110 (USSR)

AUTHORS: Varvak, P.M. and Guberman, I.O.

TITLE: The Calculation of Rectangular Plates Fixed Along the Contours^{gb}

PERIODICAL: Sb. tr. In-ta stroit. mekhan. AS UkrSSR, 1956, Nr 21, pp 51-68

ABSTRACT: The calculation of the plates is given in numerical form. The differential equation for bending is presented in finite differences. The calculation method makes it possible to consider given displacements of the contour points. A great number of auxiliary tables for plates with different side ratios is given. A square plate is considered as an example.

N.S. Kurdin

Card 1/1

GUBERMAN, I.O. (Kiev)

Simplified method for solving systems of linear algebraic equations. *Prikl. mekh.* 3 no.1:108-112 '57. (MLRA 10:5)

1. Institut budivel'noi mekhaniki AN URSR.
(Equations, Simultaneous)

SOV/124-58-10-11449

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 107 (USSR)

AUTHORS: Varvak, P.M., Guberman, I.O.

TITLE: The Bending of a Square Plate Under Various Edge Conditions (Izhib kvadratnoy plastinki s razlichnymi usloviyami na krayakh)

PERIODICAL: Inform. materialy. In-t stroit. mekhan. AN UkrSSR, 1957, Nr 10, pp 3-56

ABSTRACT: This article is part of a book by P.M. Varvak [Razvitiye i prilozheniye metoda setok k raschetu plastinok (Development and Application of a Method of Coordinate Networks for the Analysis of Plates), Part 2, Izd-vo AN UkrSSR, 1952]. A square plate is investigated for 9 variants of boundary conditions: 1-2) all edges are free, 3 or 4 corners of the plate being supported; 3-8) one edge, two adjacent or two non-adjacent sides are free, the others are either supported or clamped; 9) two non-adjacent sides are free, the third is freely supported, and the fourth is clamped. Typical difference equations are compiled for the deflections of internal points, points on the contour and points adjacent thereto. Deflections of points outside the contours are ruled out by the boundary conditions. If the squares of the

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SOV/124-58-10-11449

The Bending of a Square Plate Under Various Edge Conditions

system of coordinates are spaced at intervals of $1/4$ the length of a side of the plate, the following are derived for each of the nine variants indicated at two values of the Poisson ratio ($1/6$ and $3/10$): a) Matrices for the coefficients of the difference equations; and b) matrices for the influence numbers of the free terms. The use of matrix (b) is illustrated by examples of analysis of plates for uniform and concentrated loads. The latter are treated as a load distributed over the area of a square, the side of the square being equal to one interval in the system of coordinates, while if there is a load on the free edge, the distribution is over the area of the adjacent half-square. It is shown that the results can also be employed for the analysis of rectangular plates superimposed on a square system of coordinates.

Ya. B. L'vin

Card 2/2

VARVAK, P.M., prof., doktor tekhn.nauk, starshiy nauchnyy sotrudnik;
GUBERMAN, I.O., starshiy inzh.; MIROSHNICHENKO, M.M., inzh.;
PREDTECHENSKIY, N.D., inzh.: Prinimali uchastiye: AMIRO, I.Ya.,
starshiy nauchnyy sotrudnik; DLUGACH, M.I., starshiy nauchnyy
sotrudnik; BOBYR', B.A., inzh.; KUZNETSOVA, A.K., inzh.; PETRA-
SHEN', R.N., inzh.; SOKOL'SKIY, M.M., inzh.. KAPLAN, Ya.L., red.
izd-va; LABINOVA, N.M., red.izd-va

[Tables for designing rectangular slabs] Tablitsy dlia rescheta
priamougol'nykh plit. Pod red. P.M.Varvaka. Kiev, Izd-vo Akad.
nauk USSR, 1959. 418 p. (MIRA 12:11)

1. Institut stroitel'noy mekhaniki Akademii nauk USSR (for Varvak,
Guberman, Amiro, Dlugach). 2. Vsesoyuznyy proyektno-izyskatel'skiy
i nauchno-issledovatel'skiy institut "Gidroproyekt" im. S.Ya.Zhuk
(for Miroshnichenko, Predtechenskiy, Bobyr', Kuznetsova, Petrashen',
Sokol'skiy).

(Concrete construction--Tables, calculations, etc.)
(Concrete slabs)

GUBERMAN, I.O. [Huberman, I.O.] (Kiyev)

Solution of the problem of stress concentration around curvilinear
holes in shells by the finite-difference method. Prykl. mekh. 9
no.6:619-626 '63. (MIRA 16:12)

GUBERMAN, I.Ya.

I.IA.Guberman. Uch. zap. Ped. inst. Gerts. 238:132-140 '62.
(MIRA 16:4)
(Boundary value problems) (Operators (Mathematics))

S/020/63/148/002/001/037
B167/B112

AUTHORS: Bakel'man, I. Ya., Guberman, I. Ya.
TITLE: Dirichlet problem for an equation with Monge-Ampere operator
PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 2, 1963, 247-250

TEXT: Conditions are shown for which the Dirichlet problem for the differential equation

$$rt-s^2 = \varphi(x,y,z,p,q), \varphi \geq 0, z|_{\Gamma} = \psi(X)$$

has solutions in the generalized sense, with Γ being the boundary of the convex domain Ω , and X being a point on Γ . Let $R(p,q)$ be a factor that compensates the increase in φ , and c_0 and κ be positive constants, then

$$R(p,q) \leq c_0(1 + p^2 + q^2)^\kappa, \varphi = R \cdot f$$

is assumed. The following assumptions are made for f : (1) f is continuous and non-negative in $0 \leq z < R_0$, $(x,y) \in \Omega$, $-\infty < p,q < \infty$; (2) for every $R \in [0, R_0)$, constants $a > 0$, $\lambda \geq 0$, $\varepsilon > 0$, $\nu > 0$ exist such that the
Card 1/3

Dirichlet problem for an ...

S/020/63/148/002/001/037
B187/B112

inequality $f(x,y,z,p,q) \leq a[\varphi(x,y)]^\lambda$ with arbitrary p,q and $z \in [0,R)$ holds for all points $(x,y) \in \Omega$ satisfying $\varphi(x,y) < \varepsilon$, φ = distance of the point (x,y) from Γ ; $x \leq \frac{1}{\sqrt{2}} + \frac{\lambda}{2}$; (3) for all $R \in [0, R_0)$, the condition $F(R) = \iint_{\Omega} f_R(x,y) dx dy < M(+\infty)$ is fulfilled, with $f_R(x,y) = \sup_{\substack{0 \leq z \leq R \\ -\infty < p, q < +\infty}} f(x,y,z,p,q)$, $M(u) = \iint_{\substack{2 \\ p^2+q^2 \leq (\frac{u}{d})^2}} \frac{dp dq}{R}$, with d being the diameter

of Ω . If $\bar{W}_{\psi R}^+$ is the set of all functions defined in Ω and convex upward, whose boundary values are consistent with $\psi(X)$ and for which $z(x,y) \leq R$, then an operator B exists in $W_{\psi R}^+$ under the assumptions made on f . $Bz = A_R f$, if $A_R f$ is a solution to the boundary value problem. The operator B is totally continuous over the set $\bar{W}_{\psi R}^+$, $R \in [0, R_0)$. If a number $\tilde{R}$ exists that satisfies the inequality
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Dirichlet problem for an ...

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$$\max_{\Gamma} \psi(x) \leq \tilde{R} < R_0, F(\tilde{R}) < M(\tilde{R} - \max_{\Gamma} \psi(x)).$$

then the boundary value problem has solutions in $\bar{W}^+$. Strongly elliptical equations with non-vanishing coefficient functions of the linear terms r, s, t may be treated similarly.

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AUTHOR: Bakel'man, I. Ya.; Guberman, I. Ya.

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ABSTRACT: A brief review is given of some previous work done by one of the authors, I. Ya. Bakel'man, and by A. V. Pogorelov, on the Dirichlet problem for equations of the type

$$rt - s^2 = \varphi(x, y, z, p, q), \quad \varphi > 0, \quad (1)$$

In the present study, the Dirichlet problem solvability conditions have been established for equation (1) when function φ is not growing faster than $(p^2 + q^2)^k$ as $p^2 + q^2$ goes to plus infinity, when k is an arbitrary positive constant, and when the specific curvature of Γ , the closed convex boundary curve of region Ω , is essentially positive and can become

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zero. $R(p, q)$ is defined as a positive, continuous function in the p, q plane. The existence of constants c_0 and k is assumed so that

$$R(p, q) < c_0(1 + p^2 + q^2)^k. \quad (2)$$

P is defined as a convex surface projecting uniquely into Ω , and $\omega_k(P, H)$ is its conditional curvature determined by the function $R(p, q)$. Sufficient conditions are established for the existence of a convex surface P such that: (a) P projects uniquely into Ω ; (b) $\omega_k(P, H)$ on Borel sets $H \subset \Omega$ is equal to a preset denumerably additive non-negative set function $\mu(H)$; (c) the boundary of P matches a preset continuous curve γ . The Dirichlet problem has been investigated for the equation:

$$rt - s^2 = R(p, q) \varphi(x, y), \quad (3)$$

with the boundary condition: $z|_{\Gamma} = L(x, y), \quad (4)$

in a convex region Ω bounded by a closed curve Γ . In addition to earlier assumptions about Γ and $R(p, q)$, it is required that function $\varphi(x, y)$ must be non-negative and summable over Ω , and that there must be constants $\lambda \geq 0$ and $a > 0$ such that, for points $(x, y) \in \Omega$, sufficiently close to Γ , the inequality (5) is satisfied. The generalized solution

$$\varphi(x, y) \leq a \left[\int_{\Omega} \varphi(x, y) \right] \quad (5)$$

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of (3) is a convex function $z(x, y)$ in the region Ω , the graph of which satisfies the equation:

$$\omega_R(P, H) = \mu(H), \quad H \subset \Omega,$$

where $\mu(H) = \iint_H \varphi(x, y) dx dy.$

When the boundary of surface P matches the curve γ determined by boundary condition (4), then the function $z(x, y)$ is the generalized solution of the boundary value problem (3), (4). $w^+(w^-)$ is defined as the set of all functions defined in Ω , convex in the direction $z > 0$ ($z < 0$). The existence of the operator A_R is established, and of a sequence of functions $A_R \varphi_n$ which converges uniformly in Ω to $A_R \varphi_0$. Equation $z_0(x, y) = A_R \varphi_0$ is the solution of the boundary value problem (3), (4) in the class w^+ . Similarly, $A_R \varphi$ is determinable as the solution in the class w^- . The Dirichlet problem has also been investigated for the equation

$$rt - s^2 = g(x, y, z, p, q) \quad (6)$$

with the previous boundary condition (4). Equation (6) has been rewritten as:

$$rt - s^2 = R(p, q) \cdot f(x, y, z, p, q). \quad (7)$$

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The same assumptions are used for Ω and $R(p, q)$. Additionally, it is assumed that the function $f(x, y, z, p, q)$ is defined, continuous, and non-negative at

$$0 \leq z \leq R_0, (x, y) \in \Omega, -\infty < p, q < +\infty; \quad (8)$$

and that constants $a > 0, \lambda > 0$ exist for each $R \in [0, R_0]$, so that for all points $(x, y) \in \Omega$ sufficiently close to Γ , the inequality $f(x, y, z, p, q) \leq a [\varphi(x, y)]^\lambda$ is satisfied at arbitrary p, q and $z \in [0, R]$. With further assumptions, the existence of an operator B is established which is absolutely continuous on each set $W_{L, R}, R \in [0, R_0]$ in the sense of uniform convergence. Consequently, the functions $B_{z_n} = A_R \varphi_{z_k}$ converge uniformly to $B_{z_0} = A_R \varphi_{z_0}$.

The condition for the existence of a generalized solution of (6), (4) in $W_{L, R}^+$ is established with R satisfying the inequalities: $\max_{\Gamma} L(x, y) \leq R < R_0$ and

$$F(R) \leq M(R - \max_{\Gamma} L(x, y)).$$

By applying the Schauder fixed-point principle, it is proved that $B_z = Z$ and the solutions

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of the boundary value problem are equivalent. Orig. article has: 22 formulas.

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