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110-10-10/18 AUTHOR: Palastin, L.M., Candidate of Technical Sciences. TITLE: The Determination of Stray Losses in Synchronous Machines Operating Alone. (Opredeleniye doba vochnykh poter' v avtonomno rabotayushchikh sinkhronnykh mashinakh) PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.10, pp. 49 -52 ABSTRACT: Methods of determining stray losses in synchronous machines are not well developed. Stray losses are usually determined by Rüdenberg's method from the results of a short-circuit test. However, the current wave shapes are different on normal load and under short-circuit and so the losses determined on short circuit may be appreciably greater than on load. This effect is most marked in single-phase synchronous machines and also in asymmetrically-loaded three-phase machines. This article suggests a method for the experimental determination of stray losses for any load condition on single and three-phase synchronous machines operating alone. In order to determine the stray losses of a single-phase synchronous machine two operating conditions must be considered: short circuit and no-load. The recommended procedure is as follows: A single-phase generator with short-circuited field card 1/3 winding is driven up to its rated speed by an auxiliary motor 1

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The Determination of Stray Losses in Synchronous Machines Operating Alone.

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after which the armature winding is connected to an alternating current supply through a resistance equal to the total resistance of the load. After synchronisation the generator operates as a reactive single-phase synchronous motor. The auxiliary motor is disconnected while running and the no-load conditions are obtained for the synchronous machine. The voltage applied to the armature is such that the appropriate load current flows through the winding and the associated series resistance. Because of the presence of the external resistance all the current harmonics in the generator winding are practically the same as on normal load. This is confirmed by the oscillograms, Figs. 3 and 4. Therefore, the field harmonics for a singlephase synchronous motor operating, in this case, on no-load have the same influence on the generator windings as under actual load conditions. A slight difference in the saturation of the magnetic field may be neglected. A formula is given for the determination of the stray losses as the difference between the total losses and the sum of the mechanical iron and copper losses. Methods of determining these three types of loss are then described. Experimental data for stray losses card 2/3 in a single-phase synchronous generator operating under

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110-10-10/18 The Determination of Stray Losses in Synchronous Machines Operating Alone. reactive no-load conditions, on short-circuit are compared with calculated values in a table and the superiority of the new method of test is demonstrated. Stray losses in three-phase machines can be determined by an analogous method provided that an appropriate impedance is connected to each phase of the machine. In this case there is no need for an auxiliary motor. There are 5 figures and 4 references, of which 3 are Slavic. NII EP ASSOCIATION: SUBMITTED: November 14, 1956. AVAILABLE: Library of Congress Uard 3/3

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16.9500 (1024, 1131, 1132)

Palastin

Candidate of Technical Sciences Candidate of Technical Sciences Chesnokov A I Engineer and Panferov Yu B Engineer

AUTHORS

TITLE

Controlled-Output D C Machines With Permanent Magnet Field Systems PERIODICAL Vestnik elektropromyshlennosti 1960. No 12 pp 42-48

M

Ordinary d c machines with permanent-magnet fields do not permit of direct control of field flux in the air gap a: ordingly of practical importance to develop a simple and economic design of d.c. machine with permanent magnet field in A way of doing this which which the voltage can be controlled has been proposed by the present authors combines two methods of The armature electromagnetic and permanent magnet commutator and brush gear are just the same as in an ordinary d : machine Each field pole has two permanent magnet parts and between them is a magnetic shunt of magnetically soft steel Under normal operating conditions the machine is excited jointly by the permanent magnet and the compensation winding which surrounds Х

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Controlled-Output D.C. Machines With Permanent-Magnet Field Systems

The permanent magnet flux passes through the the pole as a whole air gap into the armature and is partially shunted increasing the permanent-magnet leakage flux Current is passed through the compensating winding in such a direction that its magnetic flux in the bir gap coincides in direction with that due to the permanent Then the flux set up in the shunt by the compensation magnets winding opposes the leakage flux of the permanent magnet which closes through the shunt Any necessary increase in the working flux is developed by the compensating winding by displacing the leakage flux of the permanent magnet from the shunt into the air gap In a conventionally excited machine the field winding should be capable of setting up an mut that will souse all the mignetic 2 us to pass round the magnetic inclust and will also compensate armature reaction and voltage drop in the armature circuit Rν "Omparison the machines with permanent magnets that are under consideration require much less mmf from the compensation winding Most of the flux in the air gap is provided by the permanent magnets If suitably designed the machine with permanent magnet can have appreciable advantages over an ordinary machine A number of Lard 215

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88173 s/110/60/000/012/002/004 E194/E455 Controlled-Output D C Machines With Permanent-Magnet Field Systems machines are compared in the article, all fulfilling the same requirements and having the same rated data. Results are given for the case of including a compensating winding (the magnetic fluxes of the permanent magnet and the compensating winding coincide in direction in the air gap). The following machines are compared with conventional excitation; with permanent magnets with orientated crystallization; with magnico permanent magnets. and with permanent magnets of high coercive force. Two frame sizes of d c motor are compared, firstly in respect of no-load Very similar no-load characteristics can be characteristics. obtained with and without permanent magnets, but with permanent magnets the field winding power is much reduced. Moreover. in motors with permanent magnets, the rated voltage may be exceeded by 25 to 30% which cannot be allowed with normal methods of excitation because of saturation of the magnetic circuit. The comparison shows that the alloy with orientated crystallization requires the least field power ... The use of permanent magnets with high coercive force in four-pole machines has less to ۰X Card 3/5

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Controlled-Output D C. Machines With Permanent-Magnet Field Systems

For self-excitation and starting, a d c machine recommend it must have a relatively high residual flux and in this respect machines with partial permanent-magnet excitation are much superior Motors of this kind can be started against to normal machines It is shown that rated load without special starting windings. motors with permanent magnets made of alloys with orientated crystallization and magnico have a starting voltage which is Alloys with high 2 5 to 3 5 times less than in normal machines coercive force require a higher starting voltage which is 70 to 80% of the corresponding value for normal methods of excitation. D.C. motors operated with speed controllers are often required to be of great reliability because of the high runaway speeds that Here motors with permanent could result from field failure magnets are particularly reliable because even if the compensation winding fails the excitation is sufficiently maintained. field winding time-constants of machines with permanent-magnet excitation are much smaller than those of normal machines and accordingly, transient process time is greatly reduced In the

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Controlled-Output D C Machines With Permanent-Magnet Field Systems

ordinary way alloys of high coercivity cannot be magnetized in the assembled machines. However, in the machines described here this is possible because the compensating winding is wound directly on the permanent magnets and its full flux passes through the magnets along the axis of magnetization. The permanent magnet can accordingly be magnetized by passing through the coils a high value of direct current for a short time. The risk of de-magnetization by transient currents and short-circuit currents is considered and dismissed because the total flux of the magnet remains constant in such circumstances and the flux is redistributed between the air gap Commutation is practically the same in and the magnetic shunt machines with permanent magnets and in normal machines, There are 7 figures 2 tables and 6 references: 5 Soviet and 1 English

March 2 1960 SUBMITTED

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PULAND

PALASZ, Maria, Fourth Department of Internal Diseases (IV Zaklad Chorob Wewnetrznych), Physicians' Post-Graduate Program (Studium Doskonalenia Lekarzy), AN [Akademia Medyczna, Medical Academy] in Warsaw (Director: Prof. Dr. med.sci. Witold ORLOW-SKI)

"'Alcoholic Pain' in Malignant Lympho-granulomatosis."

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Warsaw, <u>Polski Tygodnik Lekarski</u>, Vol 18, No 31, 29 Jul 63, pp 1159-1161

Abstract: Review of the literature on the appearance and induction of "alcohol pain" in people with malignant granulomatosis, other malignancies, and other diseases. Although findings are not consistent, and cannot be used as a diagnostic test, the author believes that it could be utilized as a test for the progress of the treatment and aid in prediction of further possible foci of malignancy. There are 21 references: 2 German, 3 French, and the others in English.

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PALAT, K.; CELADNIK, M.

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"d-aminoaklylation" by H. Hellpann and G. Optiz. Reviewed by K. Palat and M. Celadnik. Chem.' zvesti 16 no.8:643 Ag '62.

CZECHOSLO	VAKIA / Organic Chemistry. Synthetic Organic G Chemistry.
Abs Jour:	Ref Zhur-Khimiya, No 18, 1958, 60921.
Author : Inst :	Karel Palat, Ales Dekera, Cenek Vrba.
-	Study of Local Anesthetics. X. Basic Complex Esters of Diphenylcarbamic Acids.
Orig Pub:	Chem listy, 1957, 51, No 3, 563-567; Sb. chekhosl. khim. rabot, 1957, 22, No 3, 825-830.
Abstract:	m-Iodophenylbutyl ester, yield 64%, boiling noint 131 to 132°/7 mm, and n-iodophenylbutyl ester, yield 76%, boiling point 104 to 106°/0.5 mm, were synthetized of corresponding amines. n-Bromophe- netole, boiling point 91 to 93°/5mm, was synthetized
Card $1/7$	

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G Chemistry. Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921. Abstract: of the aromatic halogen derivative with 0.15 mole of alkoxyaniline in the presence of lg of active Cu in the duration of 3 to 6 hours to from 200 to 210° at a periodical addition of fresh catalyst; 2/ by alkylating 0.1 mole of oxy- or dioxydiphenylamine with 0.11 or 0.22 mole of diethylsulfate in the presence of 20%-ual KOH; 3/ by adding the Ha salt (prepared by aging Na-alcoholate with 0.1 mole of the corresponding oxydiphenylamine in alcohol solution for 12 hours) to 0.11 mole of butyl iodide and boiling it 3 hours. The R-s and R's constituting the I, the yields by the methods 1, 2, and 3, Card 3/7

CZEC HO3LOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.
Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.
Abstract: point; acid chlorides of substituted diphenyl-carbanic acids RC6H_N(C6H_R')C001 are produced; the R-s and R'-s, 'the yield in %% and the melting points in °C (from alcohol) are presented in the following: 4-02H50, H, 87, 126 to 127; 4-02H50, H, 86, 62; 4-02H50, 4-02H50, 76, 101; 4-02H50, H, 86, 62; 4-02H50, 4-02H50, 76, 101; 4-02H50, 2-s (II) were prepared by boiling (1 hour) Na-diethyl-amineethylate with the corresponding acid chloride. The R-s and R'-s, the yield in %%, the boiling points in °C/mm, and the melting points of the

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238 CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G Chemistry. Ats Jour: Ref Zhur-Khimiya, No 18, 1958, 60921. Abstract: hydrochlorides in °C (from mixed petroleum ether and tolusne) are presented in the following: $4-C_2H_50$, H, 63, 185 to 189/3; 146 to 147 (from toluene); 4-C4H90, H (IIE), 64, 197 to 204/1.5, 106 to 107; 3⁴C¹₄H₉O, H (IIb), 54, 135/0.02, 116 to 119; 2-c₄H₉0, H, 59, 150/0.03, 136; 4-c_{2H5}0, 4-C2H50, 55"180/0.3, 134 to 136; 4-C4H90, 4-CLH90, 74, -, 109 to 115; 3-CLH90, 3-CLH90, 57, -, 97 to 98. All the prepared complex esters and their hydrochlorides possess high anesthetic properties. The most active one is IIa, which is approximately 76 times more active than cocaine (III), when used for surface anesthesia and approx-Card 6/7 23

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238 PALAT, K.; VRBA, C.; CELADNIK, M. Local anesthetics from the group of basic propiophenenes. In German. p. 51. ACTA FACULTATIS PHARMACEUTICAE BRUNENSIS ET BRATISLAVENSIS. Brno, Gzecheslevakia. Vel. 1, 1958.Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960. Uncl.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238:
PALAT, K.; SEYE A. A; VRPA, C.
"Study of local anesthetics. E. Basic esters of dirhenyl carbamic acid. In German."
p. 825 (Collection of Czechoslovakia Chemical Communications, Stornik Chekhoslovats-kikh Khimicheskikh Rabot) Vol. 22, no. 3, June 1957
Prague, Czechoslovakia
S0: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



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RADA, B.; BLASKOVIC, D.; PALAT, K.; CELADNIK, M.

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Screening of antihetabolites inhibiting virus multiplication. IV. Failure of basic proprophenones to inhibit virus multiplication. Acta virol. 7 no.3:277-278 My '63.

1. Institute of Virology, Czechoslovak Academy of Softences, Bratislava and Department of Anorganic and Organic Chemistry, Pharmaceutical Faculty, Bratislava.

(ANTIMETABOLITES) (VACCINIA VIRUS) (ENCEPHALITIS VIRUSES) (NEWCASTLE DISEASE VIRUS) (PROPIOPHENONES) (ANTIMIRAL AMENTS)

CELADNIK, M., doc. Dr. Mr. CSc., (Halinciakova 8, Bratislava); PALAT, K.; NCVACEK, L.; MATUSKOVA, E.; KUBALA, E.; PAVLAS, M.

Antitubercular agents. Part 4. Cesk. farm. 14 no.6:303-302 Ag 165.

1. Katedra anorganicke a organicke chemie farmaceuticke fakulty Univerzity Komenskeho, Bratislava, Lecebna tuberkulosy, Kostelec n. Cernymi Lesy, Lecebna tuberkulosy, Janov u Mircsova a Vyzkumny ustav veterinarniho lekarstvi, Brno. Submitted November - 3, 1964.



NOVACEK, Lubor: PALAT, Karel; CELADNIK, Milan

Pyrazine chemistry. Chem listy 57 no.3:298-328 Mr 163.

1. Katedra anorganicke a organicke chemie, Farmaceuticka fakulta, Universita Komenskeho, Bratislava.

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的。在这些时候,你们是不是是是 SOURCE CODE: CZ/0024/66/000/01./0270/0274 ACC NR: AP7000592 AUTHOR: Palata, Miroslav (Engineer) and a subserve an and other that there ORG: Department of Special Geodesy, FS, CVUT, Prague (Katedra specialní peodézie FS CVUT) TITLE: Modern leveling instruments and possibilities of faster surveying SOURCE: Geodeticky a kartograficky obzor, no. 10, 1966, 270-274 TOPIC TAGS: surveying instrument, surveying equipment, geodetic survey ABSTRACT: Surveyors leveling instruments are first classified in two groups: bubble levels and those with automatic adjustment to the line of sight. Four grades of accuracy are listed, as standardized in the Czechoslovak leveling instructions of 1950. Typical differences in design are described, including a fixed telescope attached to the bubble level and with an elevating screw, ocular observation facilitated by an optical micrometer in the form of a plane-parallel plate either in the telescope or before the objective. Improvements include focusing screws, vibration absorbers, and prismatic or reflector plummets. Levels produced by different manufacturers vary chiefly as to accuracy of adjustment, also as to weight and protection from effects of heat. Tables list such variations among levels produced by chief manufacturers in England, France, Hungary, Germany, Soviet Union, Switzerland, Italy, Czechoslovakia, Austria and Japan. Future improvements in geodetic equipment are briefly listed as: Card 1/2 UDC: 528.541.2

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AUTHORS: Palatbekov, P. P., Kanatbayev, A.

TITLE: Determination of arc temperature from magnesium lines

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PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 28-29, abstract 4V211 ("Sb. nauchn. rabot Kafedry optiki i Kafedry eksperim, fiz. Kazakhsk. un-t," 1960, no. 2, 115-118)

TEXT: The temperature of the AC arc between carbon electrodes was determined by measuring the intensity ratios of the Mg II 2782.97 and 3336.69 lines. These Mg lines are free from self-reversal incident to magnesium oxide content up to 30%. The obtained results are satisfactorily consistent with the data in the literature.

[Abstracter's note: Complete translation]

 $\dot{C}ard 1/1$

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PALATCHENKO, N.; PONOMAREV, I.

"Kostrolit" roofing passed the test. Pozh.delo 10 no.1:24-25 Ja '64. (MIRA 17:2) 1. Nauchno-issledovatel'skiy institut sel'skogo stroitel'stva (for Palatchenko). 2. Moskevskaya pozharno-ispytatel'naya stantsiya (for Ponomarev).






PALATINUS, L.

Assuring plenty of good silk e. p. 27%

(Ministerstvo zemedelstvi) Praha. / Publication on mechanization of agriculture issued by the Ministry of Agriculture. Semi-monthly/

Vol. 5, no. 14, July 1955

SOURCE: East European Accessions List (TEAL) Library of Congress. Vol. 5, No. 1, January, 1956



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

HUNGARY

OLAH, P., PALATKA, Z.; Phylaxia State Serum Institute [hirector Million to]. Budapest [original language version not given].

"The Pathogenicity of Newcastle Disease Virus Strains as Controll - by Intracerebral Application to Pursens."

Budapest, <u>Acta Veterinaria Academia- Ccientiarum Bunjaricae</u>, Vol (111, 1997) 1963, pages 37-42.

Abstract: [English article, authors' English summary] On intracerebral administration of different Newcastle disease virus strains to pigeons it has been found that those inoculated with virulent strains died on the 5th or 6th day after infection without exhibiting any nervous symptoms. Mesogenic viruses H and L were pathogenic for the majority of the pigeons, but 40-05 per cent of these survived. Death ensued with nervous symptoms 7-16 days after infection. Lentogenic viruses (B_1 , F_1 , and La Sota) had no pathogenic effect on pigeons. The intracerebral pathogenic index was found to be 3 for virulent viruses, 1.9 for H, 2.0 for L and uniformly 0.0 for B1, F1 and La Sota strains. When administered intracerebrally to pigeons, the Roakin strain exhibited neurotropic properties; nevertheless, its pathogenic in ex was the lowest (0.9) among the mesogenic strains. Virulent viruses could be carried through any number of pigeon passages, while strains H, L, and Roakin disappeared after 1, 2, and 3 passages respectively. The intracerebral pigeon test is suitable for the safety testing of vaccine B1, since the presence of a 1:10,000 dilution of a virulent virus can be detected in the vaccine by this method. 4 Hungarian, 3 Western references. 1/1

The production of the Strain was adapted inoculated with spice pagated therein through several passages. Rabbits inoculated with spice suspensions from the 7th to 27rd sneep passages developed a febrile reaction suspensions from the 7th to 27rd sneep passages adveloped a febrile from the form the 7th to 27rd sneep passages developed a febrile income the form the 7th to 27rd sneep passages developed a febrile suspensions from the 7th to 27rd sneep passages developed a febrile from the 7th temporary fluctuations). The agent's ability to induce a febrile income a from the 25th transfer on, while it de-

APPROVED FOR RELEASE: Tuesday, August but the 25th transfer on while it decreated and finally ceated in the race of 2000 but the agent in sheep without any febrile reaction was consistently induced by the agent in sheep without any febrile reaction was consistently induced by the agent in sheep without any febrile reaction was consistently induced by the agent in sheep without any febrile reaction was consistently induced by the agent in sheep without any febrile reaction was consistently induced by the agent in sheep without any febrile reaction was consistently induced with 10-1-10-4 dilutions of opleen other clinical signs. Pigs inoculated with 10-1-10-4 dilutions of opleen suspensions from the 20th to the 30th passage developed immunity to ho; cholera, in subsequent passages, the SUVAC strain lost its immunogenicity for the pig. In subsequent passages, the SUVAC strain lost its immunogenicity for the pig. This new biological property of the sheep-acapted virus proved to be constant This new biological property of the sheep-acapted virus proved to be constant and could be also maintained in further serial transfers in rabbits. 6 Hun-



HUNGARY OLAH, P., and <u>PALANKA. Z.</u> of the State Serum Institute "Phylaxia" (Director: MCLNAR, J.) Budapest [Original version not given]. "Hemolyzing Froperty of Organ-Extracts Containing the Viruses of Infectious Canine Hepatitis and Distemport Budapest, Acta Veterinaria, Vol 12, No 4, 1962; pp 409-415. Abstract [inglish article; authors' English summary]: The organ extracts containing infectious canine hepstitis hemolyzed the erythrocytes of the guines pig after incubation in a water bath at 40°C for an nour. The nemolytic titer of the liver extracts ranged between 1:8 and 1:255 that of the lymph node and spleen extracts between 1:4 and 1:64, whereas the lung extracts hemolyzed only up to 1:2 dilution. The hemolysis was preceded by a release of KT from the erythrocytes. The hemolytic tater depends on the species of animal giving the erythrocytes, on the concentration of the erythrocytes and on the temperature. The hemolyding agent cannot be destroyed either by formalin in a concentration of 0.4% or by hesting at 56°C for 30 minutes. Boiling for 10 minutes destroyed the hemolyzing activity. The hemolyzing material was partly 1/2



GLAH, Pal, dr.; PALATKA, Zoltan, dr.; as allatorvostudomanyok kandidatusa
Control of the pathogenicity of the virus strains of the fowl pest of pigeoms through intracerebral vaccination. Magy allatorv lap 17:25-16 S '62.
1. Phylaxis Allami Oltoanyagetermelo Intezet, Budapest.

OLAH, Pal, dr.; PALATKA, Zoltan, dr., az allatorvostudomanyok kandidatusa Hemolytic property of organ extracts of dogs containing the

viruses of infectious hepatitis and distemper. Magy allatorv lap 17 no.7:271-273 Jl '62.

1. Phylaxia Alleni Olteanyagtermelo Inteset. Igasgato: Molnar Jossef d.

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STATES

HUNGARY

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OLAH, Pal, Dr, PALATKA, Zoltan, Dr, candidate of veterinary medicine; The Phylaxia National Vaccine-Producing Institute (A Phylaxia Allami Clicoanyagtermelo Intezet) (director: MCLMAR, Jozsef, Dr).

"The Hemolytic Effect of the Pancreas Extract of Normal and Swine Fever Infected Pigs."

Budapest, Maryar Allatorvoice Lapis, Vol 5, No 18, May 63, pp 210-211.

Abstract: [Authors' English surmary modified] The hemolytic activity of pancreas extracts of pigs decreased after infection with virulent swine fever virus or inoculation with lapinized virus. The pancreas extract showed a hemolytic activity in dilutions less than 1/512 in 87 per cent of the infected pigs, but 78 per cent of normal pig extracts produced hemolysis even in a nighter dilution. The demonstration of the decrease of hemolytic activity serves no diagnostic purpose since it varies greatly with the age of the animal and because it can also be demonstrated using pancreas extracts of pigs infected with Aujeszky's disease or swine erysipelas. 4 Western, 3 Eastern European references. 1/1

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HEGOLY-MEREI, Gyula, Dr.; PALATKAS, Bela, Dr. Hew data on the life of Andre Hogyes. Orv. hetil. 100 no.17:622-624 (BIOGRAPHIES Hogyes, Endre (Hun))



S/137/62/000/001/119/237 A052/A101

A874118-2175

AUTHORS: Palatkin, L. S., Kovalev, G. N.

TITLE: X-ray investigation of alloys of some metals with sulfur

State - Sala

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 4, abstract 1122 (Uch zap. Khar'kovsk. un-t, 110, Tr. Khim. fak. 1 N.-1. in-ta khimi1 KhQU, 17, 109 - 120)

TEXT: Alloys of Ag, Cu. Cd, Zn, In, Pb, Sn, Ge, Bi and Sb with S prepared by the method of Academician S. A. Vekshinskiy were investigated. As initial materials were taken Ag (99.92%), Sn (99.94%), Cu (99.97%), Pb (99.99%), Bi, Zn and Cd of (ch.d.a.) grade, Sb (99.2%), In (99.98%), Ge (99.9%) and stick sulfur after a 4-fold vacuum distillation. The investigation was carried out by X-ray method and with radioactive isotopes (S^{35}) . A relatively stable vitreous state was established in Cu-S (65 - 80% S), Ag-S (70 - 90% S), Sn-S (75 - 85% S), Pb-S (75 - 85% S), Bi-S (70 - 80% S), Zn-S (45 - 70% S), Cd-S (40 - 70% S), In-S (25 - 80% S), Ge-S (15 - 60% S), Sb-S (5 - 90% S) alloys. It is pointed out that the range of S concentration, within which the vitreous state is stable, extends with the increased ability of metal to stay in amorphous state. Diagrams of meta-

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1991年2月2日19月19月19月19月 17850-66 BFR(4)BFP(1) IJP(.) ACC IR: AP6004551 SOURCE CODE : UR/0103/66/000/001/0074/0086 1119 felataik, A. M. (Moscow) 11-1 TITLE: A general property of two-dimensional modulated servory SOURCE: Avtomatika i telemekhanika, no. 1, 1966, 74-86 TOPIC TACS: servosystem, sutomatic control system ABSTRACT: The author investigates a two-dimensional servosystem consisting of an a-c circuit and a linear two-channel section. The derivation of the general transfer function of linear two-channel systems is given. It is demonstrated that in the case of arbitrary demodulation functions and general transfer functions the Q-factor remains bounded even if the amplifications of the individual stages tend to infinity. Since the d-c component at the output of the phase detector is a linear combination of the amplitudes of error barmonics, an infinite increase in the system's amplification reduces only the amplitude combination to zero and not each of the components separately. This is equivalent to the effect of an additional negative feedback. Author thanks B. H. Petrov for his interest and Cerd 1/2 Card 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238 L 17850-66 ACC IR: AP6004551 V. T. Borisov for a discussion of the results. Orig. art. has: 45 formulas and 2 figures. SUE CODE: 13 / SUEM DATE: 25Mar65 / ORIG REF: 003 Gard 2/2







"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238" LEONT'YEVA, T.P.; PALATNIF, I.B. Study of an axisymmetrical turbulent counter jet. Trudy Inst. energ. AN Kazakh. SSR 2:234-236 '60. (KIRA 15:1) (Fluid dynamics)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

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代表的思想是要求成果这种法法法 . . 2:372 :11 1200 S/124/61/000/008/016/042 24.4300 A001/A101 AUTHOR : Palatnik, I.B. TITLE : On propagation of a free axial symmetrical turbulent jet of finite PERIODICAL: Referativnyy zhurnal Mekhanika, no. 8, 1961, 33, abstract 88207 ("Izv. AN KazSSR. Ser. energ ", 1960, no 2 (18), 84-92, Kazakh TEXT: The author describes the results of a theoretical and experimental investigation of a slightly heated jet of finite dimensions in a stationary surrounding medium at non-uniform distribution of velocities (at outlet from the nozzle). In theoretical analysis the hypothesis was made boundary layer for heat and momentum transfer can be reduced to linear differential equations of the type of heat conductivity equation with corresponding boundary and initial conditions. Three cases of initial velocity profiles at the outlet from the nozzle are considered: 1) uniform profile, 2) developed turbulent profile, and 3) profile corresponding to outflow from two concentrical axial symmetrical nozzles at different ratios of dimensions of the latter The solu-Card 1/2

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PALATNIK, I. B., SAKINOV, Z. B., USTIMENKO, B. P., VULIS, L. A., and LEONT YEVA, T. P.

"Thermal Problems of a Free (stream) Turbulent Boundary Layer."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

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AUTHORS. Vulis, L. A., Palatnik, I. B.

TITLE: Mechanism of turbulent mixing in gas flows

FERIODICAL: Inzhenerno-fizicheskiy zhurnal, v 4, no 9, 1961, 5-11

TEXT: The experimental arrangement shown in Fig. 1 was used to study the turbulent mixing of a gas jet with a gas flow of different temperature. The limits within which the parameters of gas jet and gas flow were varied, are listed in Table 1. In their experiments, the authors determined the velocity head and the temperature distribution along the axis and wor the cross section. The velocity head was measured with a Fitot tube formation of a measurement was determined by means of a plating of the respective was determined by means of a plating of the respective of the nozzle was measured by means start of STAM-3A (ETAM-3A) electrothermoanementer. The flow velocities for the intensity of turbulent mixing at a given point of the flow, the following relations were used $\mathbf{\xi} = 1 - (\sqrt{\mu})_m^{-1}/(\sqrt{\mu})^{-1}$ and Card 1/6

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 $\xi_{ij} = 1 - (T_n - T_n)/(T_0 - T_n)$, where the subscript m refers to the axis of the jet These characteristics tend toward zero in the absence of mixing and toward unity with complete mixing. The authors determined the function $\boldsymbol{\xi}_{\mathrm{T}} = f(\mathrm{m})$, where $(\mathrm{m}^2 = (\mathrm{cu}^2)_{\mathrm{c}})$; it may be seen from this function that at any given distance from the mouth of the nozzle, the quantity $\varepsilon =$ and consequently, the conditions for a minimum mixing of the jet with the flow practically coincide at m = 1 In this case, jet and flow have the same velocity . The decisive role played by the density of the pulse flow V in turbulent mixing may be seen from the function ${f L}_{\gamma}$ = f(m). Measurements were then obtained at one and the same point on the axis of the jet $(x/d_{o} = 5; x \text{ is the distance from the mouthpiece of the nozzle, and d_{o} :s$ its diameter) at different temperatures — The relative disposition of the curves $\boldsymbol{\xi}_m = f(m)$ indicates that the damping rate of the jet varies with increasing temperature . The decrease of the quantity $\Delta T_m / \Delta T_c$ and also of u_m/u_0 with $U = T_0/T_n > 1$ is greater than with $U \approx 1$ On the basis of the "similarity of (u^2) it is shown that a universal dependence of $((u^2)_m/(\sqrt{2}))$ Card :/6

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on x/d_0 on the axis of the jet is confirmed by the results of the source state. Moreover, it was 2 and that the quantity (xu_1/xu_2) from the ware, the higher is the temperature of the gas jet. The mixing process accelerates slowly and continuously with ω . With slight heating the level of pressure pulses rose from 1-25 at $\omega = 1$ to 10-175 at $\omega = 3$; with intense heating, values of 3-4 and 12-155 were obtained at the analogous values of ω . G. N. Abramovich is mentioned. There are 4 figures, 1 table, and 7 Soviet references.

ASSOCIATION: Institut energetiki AN KazSSR, C. Alwa-Ata (Institute of Power Engineering AS Kazakhskaya SSR, Alma-Ata)

SUBMITTED: June 21, 1960

Fig. 1: Schematic representation of the experimental arrangement. Legend: (1) Outer tube; (2) inner tube; (3) nozzle for the central gas jet (diameter, 10 mm); (4) nozzle for the outer gas flow (diameter, 250 mm); (5) air intake for the inner tube; (6) centrifugal ventilator for the outer Card 3/6

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PALATNIK, I. B.; LEONT'EVA, T. P.; SAKIPOV, L. B.; USTIMENKO, B. P.

"Enermal Problem of a Free (Jet) Turbulent Boundary Layer"

Report presented at the Conference on heat and Mass Transfer. Minsk, USSR, 5-10 June 61

°.

General problem of heat and Mass transfer are discussed and method of solution of heat and dynamic problems of stream flows is given' in this paper. New experimental data for cold, low-heated flat and axis-symmetrical streams are presented.

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VULIS, L. A. (Leningrad); KARELIN, V. Ye.; PALATNIK, I. B.; SAKIPOV, Z.; USTIMENKO, B. P. (Alma-Ata)

"Laws of propagation of turbulent compressible gas jets"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

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CCESSION IR: AR5020403	SOURCE CODE: UR/0124/	'6 5/000/008/9057/9 057
WMOR: Paletnik, I.B.; Temir	beyev, D.2h.	51
80: 2000		\mathcal{B}
TTLE: Diffusion of free turb	". ulent jets flowing from a recta	ngular nozzle
OURCE: Ref. zh. Nekhenika, A	ba. 88385	1
27 SOURCE: Sb. Prob. teplos (azSSR, 1964, 18-28	merg. i prikl. teplofiz. Vyp. 1	. Alma-Ata, AN
jet flow RAMSIATION: The problem of p	lar nozzle, turbulent jet, ropagation in the motionless at	mosphere of a turbu-
nitial system of equations wa ions of velocities and gave or relocities, the authors attemp	gular nozzle ² was examined. Not s not closed and that it contain any two equations for determining ted to find the field of the lo ther two components undetermine	ned unknown correla- ng three component ngitudinal component

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and the equivalent problem of the thermal conductivity theory, i.e., the .on # rsion of the system of coordinates was introduced, reducing the equation for determining the longitudinal component of the impulse to the equation of thermal aductivity, in which the functional relation describing this conversion had to ... determined by the test. An experimental study was made also of the expansion " an immersed rectangular jet. During these tests a determination was made of the distribution of the longitudinal component of the impulse in the various lateral profiles of air jets flowing into the motionless air from nozzles with discharge cross sections of 20 x 20, 15 x 30, and 10 x 30 mm and a 39 m/sec velocity. A comparison of the experimental and calculated distributions of the impulse along the axis of the jet made it possible to determine the type of relationship, describing the conversion of the coordinates, for each of the cases studied and also for nozzles with lateral ratios of 1:5 and 1:20; the experiments on the latter were conducted by V.A. Turkus. With the help of these empirical functions and the solution of the thermal conductivity equation of the profile of the longitudinal inpulse component in the various interal profiles of the jet, comparisons were made with the corresponding experimental data. An estimate was given of the distance from the nozzle at which the jet flowing from the rectangular nozzle acquired an axial symmetry. References 13. O.V. Yakovlevskiy. SUB CODE: 20

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W ACCESSION NR: AT5011661	UR/3149/64/000/001/0018/0028
AUTHOR: Palatnik, I.B.; Temirbay	<u>ev, D. Zh:</u>
TITLE: The propagation of free tur shaped <u>nozzles</u>	bulent currents originating from rectangularly- $\mathcal{B}^{+ }$
SOURCE: Alma-Ata. <u>Kazakhskiy n</u> telpoenergetiki i prikladnoy teplofiz	a <u>uchno-issledovatel'skiy institut energetiki</u> . Problemy iki, no. 1, 1964. Prikladnaya teplofizika, 18-28
TOPIC TACS: free turbulent curre density, rectangular jet momentum propagation, aerodynamics	nt, <u>rectangular nozzle jet</u> , rectangular jet current density, radial jet velocity, turbulent current
currents originating from rectangu discussions (see, e.g., I.B. Palati 1960, no. 2 (18); Sh. A. Yershin, 1 cheskaya, 1962, no. 1 (21)) could n the investigations (see, e.g., V.A.	f applied gas dynamics of jet flow is the propagation of arly shaped openings. However, existing theoretical nik, Izvestiya AN KazSSR, seriya energeticheskaya, L.P. Yarin, Izvestiya AN KazSSR, seriya energetic- ot be brought to a successful conclusion since Turkus, Otopleniye i ventilyatsiya, 1933, no. 5; go otdeleniya AN SSSR, 1958, no. 2) did not supply velocity distributions at the exit of the nozzle.

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CCESSION NR: AR5014261	UR/0285/65/000/005/0015/0015 621.438: 621.43.056
OURCE: Ref. zh. Trubostroyeniye. Otd	el'nyy vypusk, Abs. 5.49.104
UTHOR: Palamik, I.B.; Temirbayev, I	<u>), Zh</u> ,
TITLE: A study of combustion chamber I	
CITED SOURCE: Sb. Probl. teploenerg. AN KazSSR, 1964, 73-82	i priki. teplofiz. Vyp. 1. Alma-Ata,
mixer model test, mixer calculation prog	
mixing process in mixers of gas turbine Expressions derived by Yu. V. Ivanov (s	ons and an experimental study of the gas combustion chamber models are reported. ee Energomashinostroyeniye, 1958, No. 11) cams and stream systems in a transverse ving a program for calculating the mixing tions for a combustion chamber mixer.

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Tests were made on a mixe	r model to verify the calculation method. Cold at	r fed
in a stream was mixed with a cylindrical mixer, Veloc	the products of initial gas overe measured at vari- ity and temperature fields were measured at vari- Measurements were made at various positions of the mixer. Test results were compared with	ous of the
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	지 것 동안 것은 것 같아요. 그렇게 동안 것은 것이 것 것 것 같아요. 가지 않아요. 가지 않는 것 같아요. 그는 것이 것 같아.	승객 그는 물건을 가지 않는다.
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	AUTHOR: Karelin, V. Ye.; Palatnik, I. B.; Ustimenko, B. P.
•	ORG: Power Engineering Institute, AN KazSSR (Institut energetiky AN FazSSP)
	TITLE: Study of heat and momentum transfer processes in a compressible turbulent jet in a cocurrent uniform flow
	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, 399-406
	TOPIC TAGS: heat transfer, jet, combustion ABSTRACT: The aerodynamics and heat transfer in nonisothermal cocurrent jets are important for the intensification of combustion processes. If A comprehensive program to study this problem was conducted at the Kazakh Scientific Power Engineering Insti- tute in 1962-1963. The experiments were carried out in a wind tunnel with a test tute in diameter. The jet was preheated by passage through a combustion section 0.6 m in diameter. The jet was preheated by passage through a combustion chamber in which butane-propane was burned. The jet was then injected into the test section through a nozzle 0.05 m in diameter. The velocity of the cocurrent air stream- in the test section was varied between 10 and 20 m/sec to obtain ratios of the
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A LOCAL DESCRIPTION OF A LOCAL DESCRIPT L 39537-66 ACC NR: AT6006926 cocurrent stream to jet velocity of 0-0.482. Dynamic pressure, static pressure, and temperature profiles were measured by means of a special probe. The data were correlated in terms of excess momentum and heat capacity. Comparison with theoretically calculated relationships showed that similar problems in the theory of heat conduction can be used for calculating jets of finite dimensions flowing in cocurrent streams. Orig. art. has: 4 figures. [PV] 21 / SUBM DATE: 09Nov65/ ORIG REF: 008/ OTH REF: 004/ ATD PRESS: 4208 SUB CODE: Card 2/2 Vmb Autor a Tria Sec. Same Martha E. the state of Store Level

ALC NR: AT6006928	SOURCE CODE: UR/0000/65/00	0/000/0414/0419 53
WTHOR: Pelatnik, I.	B.; Temirbayev, D. Zh.	Bri
RG: <u>Power Institute</u>	AN KezSSR (Institut energetiki A	N KazSSR)
ITLE: Free turbulen	t jets issuing from a rectangular	opening
zaimodeystvii tel s	soperence. t. II: Teplo- i messo botokami zbidkostey i gezov (Heat transfer in the interaction of bo t, Nauka i tekhnika, 1965, 414-41	and mass transfer. dies with liquid
OPIC TAGS: turbulen	; jet, meas transfer, fluid flow	
omponent of the dens	a-dimensional flow, the field of ty of the momentum flux can be d	the longitudinal escribed by an
quation of the form:	$\frac{\partial \rho u^{a}}{\partial \tau} = \frac{\partial^{a} \rho u^{a}}{\partial z^{a}} + \frac{\partial^{a} \rho u^{a}}{\partial y^{a}}, \qquad ($	D
unction of the longitoordinates. For the	subject to experimental determin tudinal coordinate x, and x and y case under consideration, this e sing boundary and initial conditi	are the transverse quation must be



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L 442229-66 EVT(1)/EWP(m)____WW ACC NR: AT6023748 SOURCE CODE: UR/3149/66/000/003/0099/0105 37 AUTHOR: Palatnik, I. B.; Smakov, Z. ORG: none TITLE: The use of methods of an equivalent problem of the thermal conductivity theory for studying the jet discharging from a complex ₹/ nozzle SOURCE: Alma-Ata. Kazakhskiy nauchno-issledovatel'skiy institut energetiki. Problemy teploenergetiki i prikladnoy teplofiziki, no. 3, 1966, 99-105. TOPIC TAGS: heat conductivity theory, complex nozzle, flow field, inductivity density goa jet ABSTRACT: Experimental data on the distribution of the pulsed flow density and enthalpy in the flow field of a submerged, slightly heated jet, issuing from a cross-shaped nozzle is compared with a solution obtained using the method of an equivalent problem of the thermal conductivity theory. It is demonstrated that this method can be used to calculate the flow fields under conditions where other calculation methods can not be applied. Orig. art. has: 5 figures and 8 formulas. [AV] ORIG REF: 005/ SUB CODE: 20,21/ SUBM DATE: none/ Card 1/1/17

ACC NR: AT602	23747	SOURCE CODE:	UR/3149/66/000/	003/0094/0098	
AUTHOR: Pal	atnik, I.	B.; Temirbayev, D). Zh.	c-af	
ORG: none		·		52	
TITLE: Sele hamber flam	ection of o he holder	ptimum characteri	stics of $\hat{\mathcal{F}}_{gas}$ tur	bine combustion	
SOURCE: Alm energetiki. 1966, 94-98	a-Ata. Kaz Problemy to	akhskiy nauchno-i eploenergetiki i	<u>ssledovatel'skij</u> prikladnoy teplo	<u>institut</u> ofiziki, no. 3,	
COPIC TAGS: holder, gas t	gas turbin urbine, fla	ne,combustion cha ame holder	mber, combustion	chamber flame	·
experiments particularl mixing under of a reductivere conduct where S is	ers of a ga were conduc y pressure r variable on in press ed with s p the ratio c	l results are pre as turbine combus ted to study the drop across the operating condit sure drop on the parameter variation of the total area	tion chamber fla problem of hydr perforations) an ions. To determ quality air-fuel ons in the range of perforations	me holder. The aulic drag, d nonuniform ine the effect mixing, tests $0.5 \le S \le 0.8$ to the flow	
ard 1/2	section).	The obtained re	sults show that	the pressure	

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drop across the perforations can be reduced if the relative between the perforations is not smaller than 2.6 (where the pitch is defined as the ratio of the distance between the ce perforation and its diameter). It was also found that at the pressure drop, round perforations are more effective than the rectangular, i.e. they produce better <u>air-fuel</u> mixing. Orig 5 figures and 1 formula.	relative nter of a e same
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PALATNIK, 7 -. 4 Determination of calcium oxide in fused applomerate by use of a stylemeter. A. V. Lukanin and L. J. Palanik (Kirov Mcl. Plaut, Makeevka). Zarodikoya Zab, 23, 685(1957).—For Tabid detn, of CaO, a mixt, of applomerate and powd. Cu(1:10 ratio) is pressed into a pellet 9 mm, diam. X 2.5 mm, and the CaO content is detd. spectrophoto-metrically, by using the vapor lines in the greet part of the spectrum: Ca(1) dob8.47 A, and N(11) 5335.39 A. By comparison with chem, analyses, the av, error was found to be ± 3.5 -4.0%. Wilmer Stratton $\overline{\sigma}^{[l]}$ Ъ. 2 1

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21 11- 53	Machining of shing a Crite- A. Palataik,		of cryst: metals after des, present- f unlike	5 1213 1	<pre>s following forms of ances of electrodes: cathode out of anode lloys (mixts, solid solms, in surface layer of cat- diffusion of anode and are of substance from mation of coatings or mation of coatings or lis expressed by ratio is expressed by ratio ding to initial stages of melting and intem- ting volumes" of elec- a and gives graphical fillon. States that crite- alns results of industrial itional ways to ingrease achining of metals and tection, and also ways to contacts and to improve alysis of alloys. Sub- deberg 29 Jan 53.</pre>
und Metallurgy - Notal Freessing, Spark Machining	"Phase Transformations During Spark Machining of Metals and the Experiment of Establishing a Crite- rion for Interactions Observed," L. A. Falataik, Xhar'kov State U im A. M. Gor'kiy	DAN SESR, Vol 89, No 3, pp 455-458	Discusses results of X-ray analysis of cryst: phases detected in surface layer of metals after spark treatment with various electrodes, present- ing data on about 100 combinations of unlike		
With /iotallwc	"Phase Transfor Notals and the rion for Inter Thar 'kov State	DAN SESR, Vol	Discusses resu phases detectes spark treatmen ing data on ab	(1)	electrodes. Distinguishe interaction between subsi- formation of coatings on material; formation of a. or intermetallic compds) hode as result of mutual cathode elements; transf- cathode on anode with for alloys. Suggests approx fer and interaction. It between periods correspon- in origination of center- trodes. Develops formul. (2) representation of criter ripo satisfactorily expli- experience and shows add effectiveness of spark m their anti-corrosive pro- decrease erosion of clec accuracy of spectrum an "mitted by Acad G. S. Law
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