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concentration the flame temperature was lower on the axis than at the periphery and where the concentration evened up so did the temperature. The CO_2 and O_2 concentrations became stabilized beyond the point where flame type combustion reaches the axis of the fuel/air flow, i.e. the time of ignition is commensurate with the combustion time, a conclusion which is supported by analyses of fuel samples taken from the flame. The influence of the rates of supply of primary and secondary air are discussed. The degree of blackness of the flame was higher than usually reckoned reaching a maximum value of about 0.8 for Vorkuta gas coal and up to 0.85 - 0.9 for lean coal and anthracite with a mean value of 0.65 to 0.75, which is in good agreement with data recently obtained by the International Committee on Flame Study. The existence of a maximum in the degree of blackness does not accord with the usual view of the decisive influence of volatiles on radiation from a pulverized fuel flame. The usual assumptions that the flame is uniform at all sections, that all the fuel ignites at the burner mouth where all the volatiles are consumed and that combustion occurs at a constant temperature, all lead to a

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require correction. The best developed method of making calculations is that of V.V.Pomerantsev, S.L.Shagalova and K.M.Aref'yev (Teploenergetika, no.11, 1958) which gives results that are in good agreement with the data from full-scale furnaces in service. Accordingly, this method was applied to the present tests which were on a much smaller scale than a normal furnace and once again agreement was found to be good. The tests gave somewhat higher degree of blackness for anthracite and lean coal than for gas coal which implies that the basis of the Soviet standard method of calculation is wrong. For gas coals the degree of blackness is actually appreciably below the calculated value whilst for anthracite the calculated values are too low. This is because the main source of radiation is burning particles of coal and not hot gases or volatiles, as assumed in the calculations. There are 9 figures and 2 tables.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut
(The Central Boiler and Turbine Institute)

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VERESHCHAGIN, B.V.; PLUGAR', S.G.

Effect of aerial dusting of the forests of Moldavia with 5,5% DDT dust on the forest entomofauna. Vop. ekol. 7:26-27 '62. (MIRA 16:5)

1. Institut biologii AN Moldavskoy SSR, Kishinev.
(Moldavia--Aeronautics in insect control)
(Moldavia--Forest insects)
(DDT (Insecticide))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

LERER, A.Z.; PLUGAR', S.G.

Study of tachinid flies (Diptera, Larvaevoridae), parasites of oak pests in Moldavia. Ent. oboz. 41 no.2:359-365 '62. (MIRA 15:11)

1. Yasskiy muzey yestestvoznaniya, Yassy, Rumyniya, i Institut zoologii AN Moldavskoy SSR, Kishinev.
(Moldavia--Tachinid flies)
(Moldavia--Oak--Diseases and pests)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGAR', S.G.

The greater spruce bark beetle (Dendroctonus micans Kug.) as a pine pest in the southern part of the Baikal region. Trudy Vost.-Sib. fil. AN SSSR no.5:147-150 '57. (MIRA 11:9)
(Irkutsk Province--Bark beetles) (Pine--Diseases and pests)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

USSR / General and Special Zoology. Insects. Insect and Mite Pests. P

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54390.

Author : Plugar', I. G.
Inst : Eastern Siberian Affiliate AS USSR.
Title : Some Data on the Aerial Chemical Control of the Siberian Silkworm in the Irkutskaya Oblast.

Orig Pub: Tr. Vost.-Sib. fil. AN SSSR, 1957, vyp. 5, 151-155.

Abstract: This is a brief historical reference work on the flare-ups in mass propagation and extermination work of the past years. The article contains a description of the 1953-1955 outbreak in the cedar forests of Slyudyansk Leskhoz along the watersheds of the Malaya River and the Bol'shaya Bystraya River. The aerial dusting of 7560 ha. with DDT in the fall of 1955 was carried out after the mass

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VERESHCHAGIN, Boris Viktorovich; PLUGAR', Sergey Georgiyevich; DRYAKHLOVA, V.I., red.; POLONSKIY, S.A., tekhn. red.

[Oak procession moth and its control]Dubovyi pokhodnyi shelkopriad i mery bor'by s nim. Kishinev, Izd-vo "Shtiintsa," 1962. 21 p. (MIRA 15:10)
(Moldavia--Oak--Diseases and pests) (Moldavia--Moths)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGAREV, A.P.

Weisbrem's method of apodactylic mandibular anesthesia.
Stomatologiia, Moskva no.2:57 1951. (CLML 20:11)

1. Of the Ambulatorium and Hospital of Pevek Village, Kamchatka Oblast, Chukotsk National Okrug.

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PLUGATARENKO, V. (g.Kadiyevka); NIKITIN, I. (g.Yuzno-Sakhalinsk)

Readers reply to Valia Mitiukova. Obshchestv. pit. no. 5:27 My '61. (MIRA 14:5)

(Drinking schools)

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LYSENKO, V.G., kand. ist. nauk; EPSHTEYN, A.I., kand. ist. nauk; CHIRKOV, N.P., kand. ist. nauk; KIYAN, Ye.A., kand. ist. nauk; PLUGATAREV, P.G., kand. ist. nauk; POBEDINA, Ye.N., kand. ist. nauk; DRONOVA, A.I., kand. ist. nauk; BLOKH, B.A., kand. ist. nauk; VORONINA, V.M., red.; LIMANOVA, M.I., tekhn. red.

[Outline history of the Kharkov Tractor Plant, 1931-1961] Ocherk istorii Khar'kovskogo traktornogo zavoda im. Ordonikidze, 1931-1961. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1962. 296 p. (MIRA 16:6)
(Kharkov--Tractor industry)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGCHIEV, I.

PLUGCHIEV, I. Experiment of the Balchik Forest Service in transforming the low-trunk forest into a high-trunk forrst by changing the types of trees. pl 218. Vol. 12, no. 5, May. 1956. GORSKO STOPANSTVO. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4 April 1957

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

FLUGIN, I.Ye.; ABRAMOV, P.V.; KORNAKOV, I.A.

Nonseparable thermostatic condensate eliminator. Prom.energ. 15 no.2:20 F '60. (MIRA 13:5)
(Steam)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGIN, V., mayor

Folder plane-table board. Voen.vest. 38 no.9:78-79 S '58. (MIRA 11:9)

(Plane table)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGIN, V., podpolkovnik

Examination in the field. Voen.vest. 41 no.12:62-64 D '61. (MIRA 15:3)

(Military topography)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGIN, Vadim Georgiyevich, kand. ped. nauk; KRAYEVOY, Yuriy Petrovich; DUKACHEV, M.P., polkovnik, red.; KOCHOVALOVA, Ye.K., tekhn. red.

[Visual aids and training apparatus in military topography (approved by the Chief of the Military Topographical Administration)] Nagliadnye posobiia i trenazhery po voennoi topografii (odobreno nachal'nikom voenno-topograficheskogo upravleniia). Moskva, Voenizdat, 1963. 127 p. (MIRA 16:10)

(Military topography--Study and teaching)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

GRIGOR'YEV, L.K., inzh.; PLUGIN, V.A., inzh.

Small MPK-2 loader. Ugol.prom. no.5:37-38 S-O '62. (MIRA 15:11)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut podzemnogo shakhtnogo stroitel'stva (for Grigor'yev).
2. Luganskiy sovet narodnogo khozyaystva (for Plugin).
(Donets Basin--Coal mining machinery)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

BERGEL'SON, L.D.; GRIGORYAN, A.N.; PLUGINA, L.A.

Unsaturated acids and macrocyclic lactones. Report No. 8: Synthesis of acetylenic keto acids. Izv.AN SSSR.Otd.khim.nauk no.3:509-516 Mr '63. (MIRA 16:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Acids, Organic) (Acetylene compounds)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGINA, V., inzh., uchastnitsa avtoprobega.

Twentieth anniversary of the first race of gas-producer automobiles. Avt. transp. 36 no. 6:50 Je '58. (MIRA 11:7)
(Automobiles--Gas-producers)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGIN, V.G. (Khabarovsk)

Necessity for mastering the reading of topographical maps in the secondary school. Geog.v shkole 24 no.3:25-26 My-Je '61. (MIRA 14:5)

(Maps, Topographic)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGYANSKAYA, M.N., kand.tekhn.nauk

Using anti-alkali coatings for protecting concrete and other porous materials. Trudy NIIZHB no.2:81-92 '58. (MIRA 11:9)
(Corrosion and anticorrosives) (Protective coatings)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUGYANSKAYA, M.N., kand.tekhn.nauk

Protecting porous materials from the effect of acids. Trudy NIIZHB no.2:93-100 '58. (MIRA 11:9)
(Corrosion and anticorrosives)

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

28

CA

The influence of the shape of diffusion cells and irregularities of filling upon the extraction of sugar. Rudolf Hubáček and Emil Slavíček. *Listy Cukrovar.* 65, 125-8 (1949). Transparent models of cells filled with grains produced characteristic flow patterns. Frank Marsh

COMMON ELEMENTS

COMMON VARIABLES INDEX

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, C. Jaroslav

(3)

13060* (Economic Heat-Resisting Alloys for Temperatures Above 800 C.) Úsporné žáruvzdorné slitiny pro teploty nad 800° C. Jaroslav Pluhař and Miloslav Vyklický. Slévárenství, v. 2 no. 4. Práce Československého Výzkumu Slévárenského, v. 1, no. 3, 1954, p. 21-28.

Heat resistance of 29 alloys of Fe-Si, Fe-Si-Al, and Fe-Al with C and up to 12% Si and 33% Al. Steel specimens with 13 to 25% Cr and austenitic Cr-Ni steel. Specimens examined at 800 to 1100 C. Tables, graphs, micrographs.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.; VYZKUM, H.

"Economic Heat-resisting Alloys for Temperatures above 800°C. Prace." p. 9. (SLEVARENSTVI. Vol. 2, No. 4, Apr. 1954; Praha, Czech.)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, April 1955, Uncl..

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

FLUHAR, J.

Assigning research tasks and assuring realization of results.

p. 127
Vol. 5, no. 3, 1955
ZA SOCIALISTICKOU VEDU A TECHNIKU
Praha, Czechoslovakia

Source: Monthly List of East European Accesions, (EEAL), LC, Vol. 5, no. 2
February 1956, Uncl.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.

27 27 27

Heat-Resisting Carbide Type Iron-Aluminum Alloys. J. Pluhar. (*Problems and Perspectives of Czechoslovak Metallurgy and Foundry*, 1958, 61-78). A new carbide-type alloy has been developed with good heat and corrosion resistance, good mechanical properties and satisfactory castability. It is suitable for machine parts made, so far, from chromium or chromium-nickel steels. (39 references).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR J.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.

What is "Pyroferal?"

P. 54, (Sbirke Vynalezu) Vol. 6, no. 3, Mar. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.

The present state of the development of heat-resistant materials.

P. 264, (Strojoelektrotechnicky Casopis) Vol. 8, no. 5, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.

19

Fuel elements, fuel-element cladding, and construction materials in a reactor. I. Fuel elements and fuel-element cladding. Jaroslav Pluhař and Jaroslav Vrtěl. *Jaderná energie* 5, 296-303(1959).—The following aspects are surveyed: types of materials in solid fuel elements (metal, alloys, ceramics, cermets) and their mech., thermal, corrosion, and nuclear properties; cladding and jacket materials (Al, Mg, Zr, Be, Nb, V, their alloys, and special steels); construction details of the fuel element (rods, plates, or tubes), including surface ribs for gas-cooled reactors; and possibilities of fuel elements based on Pu.

H. Newcombe

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G—
4E2b(v)
4E2c
1-M/C. ID
4E3d
2-4E3c
1-RS

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.

CZECH/34-59-5-19/19

AUTHORS: Ježek, Jaroslav, RNDr., Koutský, Jaroslav, Candidate of Technical Sciences, Ing. and Pluhař, Jaroslav, Ing.Dr.

TITLE: The Nature of the Precipitates which Separate Out from Modified 12% Chromium Steel at Temperatures above 550°C (Podstata precipitátů vylučujících se z modifikovaných 12procentních chromových ocelí v oblasti nad 550°C)

PERIODICAL: Hutnické Listy, 1959, Nr 5, pp 469-472 (Czechoslovakia)

ABSTRACT: (Czechoslovak Metallurgical Research Reports). The authors studied the precipitates of 12% Cr steels alloyed with small quantities of W, Mo, V and in some cases also Co (full analyses of the tested steels are entered in Table 1, p 469) after various heat treatment procedures, using chemical, electrolytic and extraction separation and electron and X-ray diffraction analyses. It was found that in steels, which in addition to chromium contain tungsten as the main alloying element, the inter-metallic phase Fe_2W separates out from the δ-ferrite and sorbite after long duration annealing. This phase occurs in steels with δ-ferrite as well as in purely martensitic steels and its range of existence

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

The Nature of the Precipitation which Separates out from Modified 12% Chromium Steel at Temperatures above 550°C

extends to the Ac_1 temperatures. In steels which have an increased Mo content and no W the isomorphous inter-metallic phase Fe_2Mo is present, the range of existence of which does not exceed 700°C. In chromium steels which do not have any further alloying additions, a small quantity of the nitride Cr_2N forms in addition to the carbide $(Fe,Cr)_{23}C_6$.

There are 3 figures, 4 tables and 14 references, 10 of which are Czech, 4 English.

ASSOCIATIONS: SVÚMT Prague and VZÚ Závodu V. I. Lenina, Plzeň (V. I. Lenin Works, Pilsen)

SUBMITTED: February 7, 1959

Card 2/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

FLORIAN, J.

Third International Conference on Peaceful Use of Atomic Energy. Jaderna energie 10 no.9:311 S '64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, Jaroslav

Negotiations between the Czechoslovak Academy of Sciences and the National Academy of Sciences in Washington. Vestnik CSAV 73 no.2:348-350 '64.

Delegation of the Czechoslovak Academy of Sciences visiting the United Arab Republic. Ibid.:358-360

1. Corresponding member of the Czechoslovak Academy of Sciences.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J.

The essence of precipitates segregating from modified 12% chromium steel in the temperature area above 550°C. Jaroslav Ježek, Jaroslav Koutský, and Jaroslav Pluhař. *Hutnické listy* 14, 469-72(1950).—Chem., ~~electrolytic, and~~ extn. sepn. and electron and x-ray structure analysis were used to exam. the ppts. in 12% Cr steels alloyed with smaller quantities of W, Mo, V, in some cases, Co, and treated under different temp. conditions. In steels in which besides Cr, W occurs as the main alloying element, if subjected to a long-time annealing at service temps., there segregates from δ-ferrite and sorbite the intermetallic phase Fe_2W. The region of pptn. of this phase extends to the temps. Ac_1. In steels with increased content of Mo and without W there occurs the isomorphous intermetallic phase Fe_2Mo, the region of which extends only to lower temps. and does not exceed 700°. Petr Schneider

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLANAN, J; VETEL, J.

Fuel elements, cladding and reactor-construction materials. I. Fuel elements and cladding. (To be contd.) p. 296.

JADERNA ENERGIE. (Ministerstvo energetiky)
Praha, Czeckoslovakia Vol. 5, no. 9, Sept. 1959

Monthly List of East European Accession, (EEAI), LC, Vol. 8, No. 12, Dec. 1959
Uncl.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J. ; VRTNL, J.

Fuel elements, fuel-element cladding and reactor-construction materials. II. Reactor-construction materials. (To be contd.) p. 331.

JADERNA ENERGIE. (Ministerstvo energetiky) Praha, Czeckosloviakia Vol. 5, no. 10, Oct. 1959

Monthly List of East European accession, (EEAI), LC, Vol. 8, No. 12, Dec. 1959 Uncl.

S/123/62/000/017/001/006
A052/A101

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

AUTHORS: Pluhař, Jaroslav, Sícho, Miroslav

TITLE: The properties of Cr-Mo-V type heat-resisting stainless steel at temperatures up to 600°C

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 17, 1962, 14 - 15, abstract 17A99 ("Materiál. sb. 1960. Část 2". Statní výzkumný ústav materiálu a technol. Prha, 1960, 7 - 24, Czech; summaries in Russian and English)

TEXT: The results are reported of a study of the effect of heat treatment and the amount and form of δ-ferrite separation on the impact toughness, fatigue strength, internal friction, heat resistance, structure stability and the tendency to temper brittleness of 20Cr12 Mo2V type stainless steel in the 450 - 650°C temperature range. The data obtained entitle to a conclusion that the steel of the said type, used for steam turbine blades for operation at 600°C, must contain not more than 10 - 15% δ-ferrite. Temperature regions of existence of intermetallide phases are established.

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

CZ/38-60-1-17/24

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[illegible] exposed to higher temperatures. The members of the Soviet Academy of Sciences, Oding and Ivanov and their contributions on the structural theory of metal melting are mentioned.

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24294
Z/032/61/011/009/006/009
E073/E535

18.1130

AUTHORS: Pluhař, J. et al.

TITLE: Properties of chromium creep-resistant steels of the 12% Cr type for castings with further additions

PERIODICAL: Strojírenství, 1961, Vol.11, No.9, p.712

TEXT: On thirty laboratory heats of stainless chromium steels with various inoculations, the mechanical properties, the creep resistance, corrosion resistance and structural stability under conditions of long duration annealing as a function of the chemical composition and the heat treatment were investigated. As a result, three types of cast creep-resistant chromium steels are recommended: type 18 Cr 11 Mo 1 V for larger castings with larger wall thicknesses, type 18 Cr 11 Mo 2 V for medium and small castings and type 20 Cr 11 Co 2 W 2 V for small, highly stressed, castings. The first two are capable of substituting the more expensive austenitic steels.

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Properties of Incubated [illegible] [illegible]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

KOLOMB'YE, L. (Frantsiya); PLUGARZH, Ya. [Pluhar, J.] (Chekhoslovakiya); VYKLITSKIY, M. (Chekhoslovakiya); PRAZHAK, M. [Prazak, M.] (Chekhoslovakiya); CHIGAL, V.; KHEYSKANEN, K. (Finlyandiya); SKIN, K.

Reports made at the Symposium on Stainless Steel. Metalloved. i term. obr. met. no.5:51-54 My '62. (MIRA 15:5)
(Steel, Stainless--Congresses)

S/189/62/000/005/009/011
E073/E335

18.1120

AUTHOR: Pluhář, J. (Czechoslovakia)

TITLE: Development of corrosion-resistant steels for the chemical and power engineering industry

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1962, 52

TEXT: The paper was presented at a symposium on stainless steel.
It contains a review of new Czechoslovak stainless steels with a reduced nickel content. Austenitic refractory steels developed in Czechoslovakia in 1957, intended for operation up to 650 °C: steel Mn17Cr7Ti (CSN 17481), steel Mn17Cr10V (CSN 17482) and steel Mn17Cr7MoV (CSN 17483). At 650 °C the steel Mn17Cr7MoV has a strength under prolonged conditions of loading $\sigma_{10\,000} = 8$ kg/mm^2 and was the most economical for operation at this temperature; it is used for components of superheaters, boilers and steam piping. Deformed (forged) and

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Development of S/129/62/000/005/009/011
E073/E335

cast Cr-Ni-Mn steel Poldi AKM (ČSN 17460), which contains up to 0.12% C, 18% Cr, 8% Mn, 4.5% Ni and 0.25% N is being used in Czechoslovakia. An additive material for welding such steels has been developed, [illegible]

[illegible] American steel, "[illegible]". Steels are also available which are intended for castings. These steels are welded with electrodes made of the steels Cr18Ni15Mn8N and Cr18Ni18Mn6. Of the two-phase austenitic-ferritic steels, the manufacture of the dispersion-hardened steel 17-7-Al-Ti and of the steel Cr20Mn10 has been achieved in Czechoslovakia. It is assumed that in 1965 35-40%

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

S/137/62/000/012/044/085
A006/A101

AUTHOR: Pluhař, Jaroslav

TITLE: Stainless chrome steel with Mo and V admixture for use at temperatures up to 600°C

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 73, abstract 12I434 ("Wiss. Z. Techn. Univ. Dresden", 1962, v. 11, no. 2, 375 - 384; German)

TEXT: A description is given of the structure, mechanical properties at room and elevated temperatures, and corrosion resistance of four modified 12% Cr-steel grades, containing 0.18 - 0.23% C and 0.89 - 1.42% Mn. Three grades contained Mo (2.2 - 2.7%) and V (0.24 - P 32% (?)); the fourth grade contained 4.59% W and 6.25% Co. The Mo-V steels were oil-quenched from 1050°C and tempered at 660 and 740°C (σ_b was 94 - 100 and 79 - 85 kg/mm^2 respectively, σ_s was 78 - 80 and 55 - 61 kg/mm^2). W-Co steel was tempered for 5 hours at 680°C (σ_b was 110 - 112 kg/mm^2, σ_s was 88 - 91 kg/mm^2). The results of endurance tests of Mo-V steel within a temperature range from 550 to 650°C are given in the form of a Larson-Miller diagram, which shows that one part of the heats possessed reduced

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endurance strength. An analysis of the microstructure has shown that heats of reduced strength contained besides streaky ferrites, sorbite, infiltrated with ferrite islets. In heats of higher endurance strength, the sorbite base was separated from the ferrite streaks. As modified Cr-steels are mainly intended for turbine blades, the authors studied fatigue strength under alternating tension--compression and rotating bending conditions at 20 and 600°C. It was found that at 600°C the slope of fatigue curves increased with a greater constant stress component σ_T; at σ_T 30 kg/mm^2, the Weller curve breaks off after less than 10^8 cycles. The corrosion resistance of modified Cr-steels in overheated steam at temperatures up to 700°C can be compared to the resistance of conventional 13%-Cr steels and is not different from that of low-alloy heat-resistant Cr-Mo and Cr-Mo-V steels at temperatures up to 560°C. Modified Cr-steels are prone to brittleness after extended holding at high temperatures. The degree of embrittlement is the higher, the greater the δ-ferrite amount in the steel. Therefore the steel composition should be selected in such a manner that the amount of δ-ferrite should not exceed 15%. Analyses of the carbide deposit after holding at different temperatures show that the deposit base is $M_{23}C_6$ carbide. M_6C carbide was detected in considerably lesser amounts. At temperatures over 600°C Loves' phases

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, Jaroslav

The Warsaw conference of the academies of sciences of socialist states. Vestnik CSAV 71 no.4:369-372 '62.

1. Clen korespondent Ceskoslovenske akademie ved.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, Jaroslav

Activity of the Czechoslovak Academy of Sciences in 1963 and its future tasks. Vestnik CSAV 73 no.3:409-424 '64.

1. Corresponding member of the Czechoslovak Academy of Sciences; First Scientific Secretary of the Czechoslovak Academy of Sciences.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

ACC NR: AP7004410 SOURCE CODE: CZ/0032/67/017/001/0026/0031

AUTHOR: Pluhar, J. (Prague); Lobl, K. (Prague); Sicho, M. (Prague)

ORG: none

TITLE: CSN 42 2916 (ARM) cast heat-resistant stainless steel

SOURCE: Strojirenstvi, v. 17, no. 1, 1967, 26-31

TOPIC TAGS: CHROMIUM STEEL, chromium, stainless steel, ~~chromium~~ heat resistant steel, molybdenum ~~containing~~ steel, vanadium ~~containing~~ steel, SOLID mechanical property/ARM STAINLESS steel

ABSTRACT: CSN 42 2916 heat-resistant stainless steel (0.16—0.22% carbon, 10.2—11.8% chromium, 0.90—1.20% molybdenum, and 0.20—0.35% vanadium), intended for cast parts used in the power and chemical industries, has been developed. In heat-treated condition (annealed at 1040—1070°C, air cooled and tempered at 720—750) the steel has a tensile strength of 65—85 kp/mm^2 and the following minimum values of other properties: yield strength 45 kp/mm^2, elongation 15%, reduction of area 30%, and notch toughness 4 mkp/cm^2. The 100,000-hr rupture strength at 550 and 600°C was 12.4 and 7.4 kp/mm^2, and the creep strength (1% total deformation in 100,000 hr) was 8.3 and 5.0 kp/mm^2, respectively. Orig. art. has: 4 figures and 4 tables. [DV]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 015/ OTH REF: 002/ SOV REF: 001

Card 1/1 UDC: none

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

L 31947-66 EWA(d)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6018258 (N) SOURCE CODE: CZ/0065/65/000/006/0526/0548

AUTHOR: Pluhar, Jaroslav; Voboril, Josef; Macek, Karel

ORG: Department of Science of Materials, CVUT (Katedra nauky o materialech CVUT); State Research Institute of Materials and Technology, Prague (Statni Vyzkumny ustav materialie o technologie)

TITLE: Structural stability of austenitic manganese steels

SOURCE: Kovove materialy, no. 6, 1965, 526-548

TOPIC TAGS: metal heat treatment, austenitic steel, manganese steel, carbide phase

ABSTRACT: Based on results of tests the authors offer the following conclusions. The austenitic structure in modified Mn steels of the type investigated is less stable than in steels of the classical type. The austenite in manganese steels containing more than 8% Mn remains stable up to -100C. It also remains stable after plastic deformation and subsequent freezing over the entire temperature range including deformation up to 30C and freezing down to -50C. Aside from phases forming the decomposition product of austenite during isothermal annealing of classical manganese, ferritic and bainitic reactions were found to take place. The regions and boundaries of all phases were established. Classical and modified steels show two hardness peaks as a function of temperature and isothermal annealing. The second

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ACC NR: AP6018258

peak has not been reported elsewhere. The region of the first hardness peak is characterized by the precipitation of the carbide phase and the formation of pearlite or bainite. The region of high temperature maximum is produced by martensite formed in specimens cooled down from the annealing temperature. The process taking place during continuous slow heating can be equated with changes under isothermal conditions. Thermal hysteresis increases with the rate of heating and with a lower reaction temperature. The amount of transformed austenite is smaller with continuous heating. Changes appearing in the solid solution during the initial stages of continuous heating can be related to the formation of atmospheres of interstitial atoms on packing defects. This process precedes the precipitation of carbides. The article was reviewed by Frantisek Poboril, Research Institute of Ferrous Metallurgy, Prague. Orig. art. has: 21 figures and 4 tables. [GC]

SUB CODE: 11, 13/ SUBM DATE: 23May65/ ORIG REF: 005/ OTH REF: 011

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

CIHALIK, J.; PLUHAR, J.

Application of Iodine chloride in analytic chemistry. Pt.II.
Coll Cz Chem 30 no.5:1473-1479 My '65.

1. Institute fur analytische Chemie, Karls-Universitat, Prague.
Submitted April 9, 1964.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, J., prof., inz. dr.

Development and prospects of the research on materials.
Strojirenstvi 13 no.11:828-829 N '63.

1. Ceske vysoke uceni technicke, Praha.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

ACCESSION NR: AP4012492 Z/0034/64/000/002/0147/0147

AUTHOR: Pluhar, J. (Engineer, Doctor); Svoboda, M. (Engineer); Voboril, J. (Engineer)

TITLE: Method of Creating Surface Layers on Articles Made of Austenitic Steel and Alloys

SOURCE: Hutnicke listy, no. 2, 1964, 147

TOPIC TAGS: Surface Hardening of Steel, austenitic steel, steel alloy

ABSTRACT: The problem of a simple and technically and economically feasible method of creating surfaces of special properties on objects made of austenitic steel and alloys, especially manganese alloys, which would have a composition such that the removal of certain elements determining the austenitic structure would bring about a conversion of the austenite to another phase, has been solved by a discovery. According to the discovery, in order to create a hard wear-resistant surface of steel or alloy, an element, or elements accelerating the diffusion of carbon or other austenite-formed elements can be used, after which, the articles are kept for from one to 20 hours at temperatures from 800 to

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ACCESSION NR: AP4012492

1,200°C in a medium which combines one or more austenite-formed elements. The rapid diffusion of carbon as a result of the higher temperature from the surface of the part, which combines with the surrounding medium, which includes the compounds that are combined with it, such as ferr oxygen, creates a sufficiently deep surface grade with high surface hardness on the surface of the part.

ASSOCIATION: None

SUBMITTED: 12Oct59 DATE ACQ: 19Feb64 ENCL: 00

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

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, Jaroslav, prof., inz.dr.; SVOBODA, Miroslav, inz.; VOBORIL, Josef, inz., CSc.

Some metallurgic problems of modified austenitic manganese cast steels. Slevarenstvi 11 no.10:413-418 O '63.

1. Clen korespondent Ceskoslovenske akademie ved; Vysoke uceni technicke, Praha (for Pluhar).
2. Statni vyzkumny ustav materialy a technologie, Praha (for Svoboda and Voboril).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNAR, K.

[illegible]

SO: *Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,* Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, K.

Lupac, V.; Pluhar, K. - Pouring of heavy steel castings in chemically hardened sand molds. p. 161

SO: Monthly list of the East European Accession, (EEAL), LC. Vol. 4, no. 10, Oct. 1955, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

USSR

Pouring of Heavy Steel Castings in Chemically Hard-ened Sand Molds. Odlévání těžkých ocelových odlitků do forem z písku CT. (Czech.) Václav Lupač and Karel Pluhar. Slévárenství, v. 3, no. 6, June 1955, p. 161-163. Production experience; advantages of CO_2 hardening process. Graphs, photographs.

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAR, L.

The plan for road and bridge building in 1957. p.4.
(Silnice, Vol. 6, No. 2, Feb. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

PLUHAR, Z.; TOLAR, J.

Transformation matrix for the isotropic harmonic oscillator eigenvectors in $[n_1n_2n_3]$ and [nlm] representations. Chekhosl fiz zhurnal 14 no.5:287-293 '64.

1. Faculty of Technical and Nuclear Physics, Czechoslovak School of Technology, Prague 1, Brehova 7.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAROVA, B.

Formation of hydroxamic acids from peptides. III. Specificity of glutathionase. Karel Slavík, Blanka Pluharová, and Věra Matoulková (Fak. nemocnic. [illegible] Chem. Listy 43, 1078-81(1954); cf. C.A. 46, 112645.—Transpeptidation (by way of hydroxamic acid formation) and hydrolysis of simple γ-glutamyl peptides by means of glutathionase were followed by paper chromatography. The sequence for transpeptidation was glutamine > γ-glutamylglycine, γ-glutamylglycinamide > γ-glutamyltyrosine; sequence for hydrolysis was γ-glutamylglycine > γ-glutamylglycine amide > glutamine > γ-glutamyltyrosine. Hydrolysis and transpeptidation occur with γ-amino acids, having a COOH group in the γ position; their rates depend on the substituents bound to the γ-amino group. Glutathionase is not stereo-specific, but the rates of hydrolysis and transpeptidation of D-glutamic derivs. are lower than those of the L antipodes. M. Hudlický

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUHAROVA, B.

CZECH

Formation of hydroxamic acids from peptides. III. Specificity of glutathionase. Karel Slavík, Blanka Pluhárová, and Věra Matoulková. Collection Czechoslov. Chem. Commun. 19, 1311-15(1954)(in English).—See C.A. 48, 13748e.

B. J. C.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PESLER, J.; PLUHAROVA, H.

Use of waste water from brewing rooms. Kvasny prum 9 no.1:19 Ja '63.

1. Severoceske pivovary, n.p., Louny.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

SLUKAN, J.

evaluation of the photographs obtained, a Tesla electron

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUKS, Ya.

Alikayev, V. A. and Leonov, N. I. "The Fight Against Diseases of Animals." Translated by Ya. PLUKS, Riga, Latgosizdat, 1951, 192 pages with illustrations. In Latvian.

SO: Veterinariya; January 1952, Unclassified. Trans. #155 by L. Lulich

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUKSNE, E.M., red.; PETROVA, V.V., red.izd-va; GILENSON, P.G., tekhn.red.

[Supplement to part 6 of the "Manual of consolidated indices of the cost of planning and research; mining industry"] Dopolneniia k chasti 6 spravochnika ukrupnennykh pokazatelei stoimosti proektnykh i izyskatel'nykh rabot; gornorudnaia promyshlennost'. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 14 p. (MIRA 14:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Mining engineering)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUKSNE, E.M., red.; PEVZNER, A.S., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Manual of consolidated indices of the cost of planning and research] Spravochnik ukrupnennykh pokazatelei stoimosti proektnykh i izyskatel'skikh rabot. Vvoditsia v deistvie s 1 ianvaria 1958 g. Pt.6. [Mining industry] Gornorudnaia promyshlennost'. 1957. 26 p. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Mining industry)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUM, N.

CZECHOSLOVAKIA/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi R-2

Abs Jour: Ref Zhur - Biol., No 1, 1959, 2808

Author : Plum, N.
Inst : Not given
Title : Disposing of Tuberculosis with the Help of Tuberculin Tests

Orig Pub: Veterinarstvi, 1958, 8, No 2, 50-54

Abstract: No abstract

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUMAN, V.A.

BUZULUTSKOV, Fedor Semenovich; GUROVA, Tamara Ivanovna; KOROBEYNIKOVA, Lidiya Illarionovna; PLUMAN, Viktoriya Aleksandrovna; PODA, Antonida Grigori'yevna; SOROKINA, Yevgeniya Gerbetovna; YASKINA, Klavdiya Vasil'yevna; VASIL'YEV, V.G., red.; PERSHINA, Ye.G., ved.red.; MUKHINA, E.A., tekhn.red.

[Lithology of the Mesozoic and Cenozoic of the West Siberian Lowland] Litologiia mezozoia i kainozoia Zapadno-Sibirskoi nizmennosti. Moskva, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1957. 187 p. (MIRA 10:12)
(Siberia, Western--Petrology)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUMAN, V.A.

3(5) PHASE I BOOK EXPLOITATION SOV/1798

Buzulutskov, Fedor Semenovich, Tamara Ivanovna Gurova, Lidiya Illarionovna Korobeynikova, Viktoriya Aleksandrovna Pluman, Antonida Grigor'yevna Poda, Yevgeniia Gerbetovna Sorokina, and Klavdiya Vasil'yevna Yaskina

Litologiya mezozoya i kaynozoya Zapadno-Sibirskoy nizmennosti (Mesozoic and Cenozoic Lithology of the West Siberian Plains) Moscow, Gostoptekhizdat, 1957. 187 p. 1,000 copies printed.

Sponsoring Agencies: USSR. Ministerstvo neftyanoy promyshlennosti, and Zapadno-Sibirskiy gosudarstvennyy nefterazvedochnyy trest.

Ed.: V.G. Vasil'yev; Exec. Ed.: Ye.G. Pershina; Tech. Ed.: E.A. Mukhina

PURPOSE: This book is intended for lithologists, petrographers, stratigraphers, and exploration geologists in general.

COVERAGE: The book describes the methods and results of lithological and petrographic studies of Mesozoic and Cenozoic sediments conducted in the area of the West Siberian Plains during the period 1950-1954. An analysis is made for each stratigraphic component of the mineral -

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

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Middle and Upper Jurassic [illegible]
Upper Jurassic [illegible]

ACC NR: AP6014984 SOURCE CODE: UR/0364/66/002/006/0732/0734

AUTHOR: Silin', E. A.; Plumane, D. E. 39 B

ORG: Latvian State University im. Petr Stuchka (Latviyskiy gosudarstvennyy universitet)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

TITLE: Study of certain electrophysical properties of low-molecular-weight charge-transfer complexes introduced into polymer films 16

SOURCE: Elektrokhimiya, v. 2, no. 6, 1966, 732-734

TOPIC TAGS: organic semiconductor, charge transfer complex, photoconductive material

ABSTRACT: The electrical properties of low-molecular-weight charge-transfer complexes (CTC) are usually studied with donor-acceptor multilayer specimens, as with powder or film specimens prepared by depositing CTC from solutions. However, the reproducibility of electrical measurements using low-molecular-weight CTC films deposited from solution is poor owing to nonhomogeneity. Therefore, a study has been made of the feasibility of preparing new polymeric photosensitive semiconductors, whose properties can be predetermined by introducing CTC in polymer film "matrices." The acceptor, p-chloranil (PCA), and the donor, p-phenylenediamine (PPD), were introduced into polyacrylonitrile

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(PAN) films by deposition from 0.03M PPD + 0.03M PCA + 1% PAN solutions in dimethylformamide. This method yielded strong homogeneous films of the PPD + PCA complex and PAN. The complex in the [illegible]

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Plume, Z.

"Academician Dimitrii Nikolaevich Prianishnikov.", p. 315, (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 3, #3, Mar. 1953, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress, August 1953, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

Mathematical Reviews
Vol. 14 No. 7
July - August 1953
Analysis

Plūme, Z. Solution of Neumann's boundary problem in potential theory by singular integral equations. Latvijas PSR Zinātņu Akad. Vēstis 1950, no. 8(37), 119-126 (1950). (Latvian. Russian summary)

The interior Neumann problem for a plane domain bounded by a curve L having a Hölder continuously turning tangent (but in general no radius of curvature) is solved by using singular integral equations. The solution is represented as a potential of a double layer. [For a similar treatment of the Dirichlet problem see G. Bertrand, Bull. Sci. Math. (2) 47, 282-288, 298-307 (1923); N. Mushelišvili, Soobšč. Gruzin. Filial. Akad. Nauk SSSR 1, 99-106, 169-170 (1940); these Rev. 1, 314.]

L. Bers (New York, N. Y.).

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

1. PLUME, Z. Ya.

2. USSR (600)

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

Plume, Z Ya

USSR.

Taksar, I. M., and Plume, Z. Ya. Some boundary problems of the theory of impulsive magnetization.

[illegible]

The authors treat the problem [illegible] tion of an infinite, circularly cylindrical, conducting wire [illegible] unit radius by the application of an external magnetic field. The wire has constant conductivity and permeability [illegible] the radius [illegible] the axis and other [illegible] and permeability between [illegible]

[illegible]

[illegible]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUMYE, Z. Ya.

The Dirichlet Problem of the Theory of Differential Equations of Elliptic Type in the Case of Open Contour Izv. AN Latv. SSR, No 2, 1954, pp 129-136

The author introduces an elliptic type differential equation and solves the Dirichlet problem when certain boundary conditions are imposed. The holomorphic function entering into the general representation of the solutions is expressed with a Cauchy integral, and the problem is reduced to a singular integral equation. (RZhMat, No 4, 1955)

SO: Sum. No. 568, 6 Jul 55

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

GOFFE, A.P.; PLUMMER, G.

Electron microscopy of foamy virus. Acta virol. 7 no.2:191 Mr '63.

1. Wellcome Research Laboratories Beckenham, Kent, England.
(ANIMAL VIRUSES) (VIRUS CULTIVATION) (KIDNEY)
(TISSUE CULTURE) (MICROSCOPY, ELECTRON)

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EYDEL'NANT, N.L.; RUBINA, S.I.; SMOLYANITSKIY, V.Z.; SEREBRYAKOVA, V.L.; PLUNGIAN, L.V.; DASHKEVICH, V.S.; Prinimali uchastiye: PESCHANSKAYA, R.Ya.; LEVINA, A.Yu.; GOL'DBERGKH, I.Ye.; SHCHERBAKOVA, L.P.; PAPULOVA, P.A.

Activated kailin and its use in rubber compounding. Kauch. i rez. 20 no.9:46-49 S '61. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy, Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh materialov i iskusstvennoy kozhi i zavod "Sangigiyena".
(Kaolin)
(Rubber, Synthetic)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PEREVEZENTSEVA, M.M.; PLUNGIAN, L.V.; SEREBRYAKOVA, V.L.

Intensification of the processes of plasticization and mixing on rollers. Kauch. i rez. 17 no.6:34-35 Je '58. (MIRA 11:7)

1.Moskovskiy zavod rezinovykh izdeliy sanitarii i gigiyeny.
(Rubber)

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SOV/138-58-6-10/25

AUTHORS: Perevezentseva, N.M., Plungian, L.V., Serebryakova, V.L.

TITLE: Intensifying Processes of Plasticisation and Mixing on Roll Mills (Intensifikatsiya protsessov plastikatsii i smesheniya na val'tsakh)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 6, pp 34 - 35 (USSR)

ABSTRACT: The aim of the investigation was to intensify the plasticisation of natural rubber and colouring of mixtures whilst working on rollers (temperature of the roller = 50° - 60°C) by using non-toxic plasticisers. The first stage of the investigation consisted in testing, under laboratory conditions, substances recommended by NIIR, NIIShP and the Lomonosov NITKhT. (1) Anti-oxidants: dimethylphenylparacresol (DMFPK), mercapto-benzimidazol (MB), tritert.-butylphenol (P-23), di-tert.-butylhydroquinone (P-20). (2) Vulcanisation accelerators: tetramethylthiuramdisulphide (thiuram), peroxide (isopropylbenzene hydroperoxide), chlorinated paraffin, ferric stearate, bis- (para-tert.-butylphenol) disulphide and renatsit H. The effect of these various substances was tested; however, negative results were obtained.

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SOV/138-58-6-10/25

Intensifying Processes of Plasticisation and Mixing on Roll Mills

of plasticisation was shortened by 20% when using the substance with heated plasticised rubber, and by 11 - 14% when using it with heated unplasticised natural rubber.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYAN, A.A., kand. tekhn. nauk

Experimental investigation of the efficiency of a damper of variable-rigidity torsional vibrations. Izv. vys. ucheb. zav.; mashinostr. no.2:69-71 '63. (MIRA 16:8)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYAN, R. (Tashkent)

With volunteer correspondents' hands. Sov. profsoiuzy 19 no.8:8 Ap '63. (MIRA 16:6)

1. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy". (Tashkent—Journalism, Labor)

PLUNGYAN, R.

He thinks he can do what he wants. Sov. profsoiuzy 18 no.9: 48 My '62. (MIRA 15:4)

1. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy", Tashkent, Uzbekskaya SSR.
(Yangi-Yul' (Uzbekistan)—Emulation)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

SAVVATEYEVA, Zinaida Vladimirovna. Prinimal uchastiye PLUNGYAN, T.M., kand. tekhn.nauk; FLEROVA, L.N., kand. tekhn. nauk, retsenzent; GOL'DBERG, N.V., prep. tekhnikuma, retsenzent; TIMONINA, Ye.P., prep. tekhnikuma, retsenzent; GABOVA, D.M., red.; BATYREVA, G.G., tekhn. red.

[Technology of the manufacture of knit clothing] Tekhnologiia trikotazhno-shveinogo proizvodstva. Moskva, Gizlepgrom, 1963. 430 p. (MIRA 16:9)

1. Ivanovskiy trikotazhnyy tekhnikum (for Flerova). (Knit goods industry)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYAN, Tatiyana Markovna; ZNAMENSKIY, A.K., retsenzent; GABOVA, D.M., red.

[Conveyorization of operations in knit goods manufacture] Konveierizatsiia protsessov v trikotazhnom proizvodstve. Moskva, Legkaia industriia, 1964. 140 p. (MIRA 17:9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYAN, T.M., starshiy nauchnyy sotrudnik; MEDVEDEV, M.F.; TSITOVICH, K.G.

Rhythmic conveyers for the final output operations in the manufacture of nylon hosiery. Tekst.prom. 20 no.10:69-72 O'60.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut trikotashnoy promyshlennosti (for Plungyan). 2. Glavnyy insh. Tushinskoy trikotashnoy fabriki (for Medvedev). 3. Glavnyy insh. Ivanovo-skoy trikotashnoy fabriki imeni Dzerzhinskogo (for Tsitovich).
(Hosiery) (Assembly-line methods)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYANSKAYA, M.N., kand. tekhn. nauk; KRIVITSKIY, M.Ya.

Waterproofing of foamed concrete and silicate using silicon organic GKZh-94 admixtures. Trudy NIIZHB no.9:41-52 '59 (MIRA 13:3)
(Waterproofing) (Lightweight concrete)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYANSKAYA, M.N., kand.tekhn.nauk, ROZENFEL'D, L.M., kand.khim.nauk

Thorough waterproofing of products made of autoclave-hardened foamed cinder concrete. Stroi. mat. 6 no.7:37-38 Jl '60. (MIRA 13:7)

(Waterproofing) (Lightweight concrete)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

SOV/4-91

Gorbatov, A. A., Engineer

Reinforced Concrete and Stone. 1960. 111 p. 5,000 copies printed.

Building and Architecture Publishing House:

Mortars and construction

Chemical processes which occur in decreasing the durability of composition components and is analyzed. Ways of [illegible] are discussed. No [illegible]

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Chapter I. Electro-chemical processes in the hardening of cement 72

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Chapter III. Protective measures 110

24/Dec/54

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYANSKAYA, M.N., kand. tekhn. nauk;BATRAKOVA, G.S., inzh.

Improving the water resistance of concrete by incorporating paraffin emulsions with its mixes. Trudy NIIZHB no.9:53-58 '59 (MIRA 13:3)

(Waterproofing) (Concrete)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLENGYANSKAYA, M.N., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk; MITYUSHIN, N.A., kandidat tekhnicheskikh nauk.

Nonshrinking glue-paste for strengthening wooden supporting members. Biul.strei.tekh. 9 no.2:24-26 Ja '52. (MLRA 9:4)

1.TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy. (Glue)

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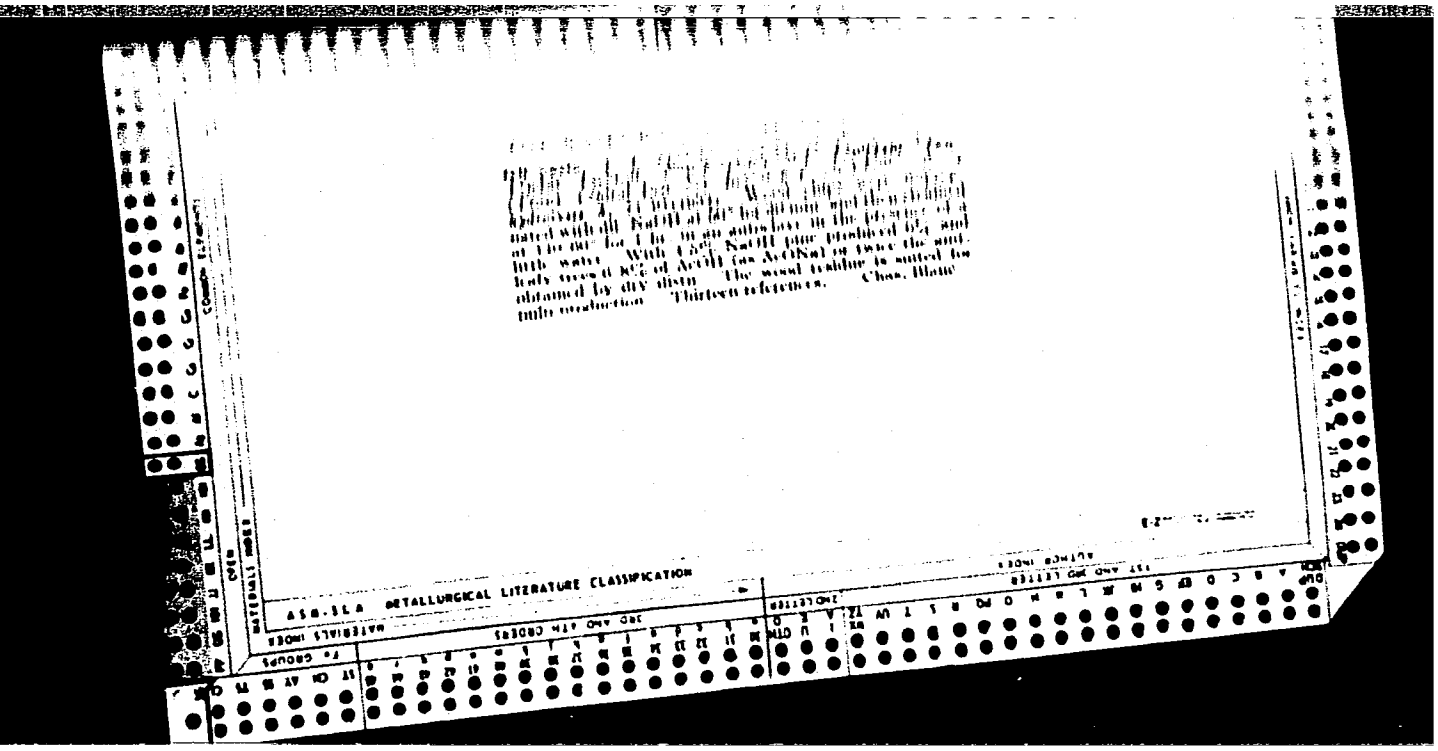

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PROCESSES AND PROPERTIES INDEX

CA

The investigation of the thermohydrolysis process of plant materials. M. N. Plungyanskaya and M. G. Gan. *Trudy Nauch.-Issledovatel. Lab. i Op. Stantsii Barbalaitu* 1937, 33-47; *Khim. Referat. Zhur.* 1, No. 7, 85(1938).—The dependence of the physicochem. properties of Barkalite on the autoclave conditions (with a pressure of 14, 12, 10, 8 and 6 atm.; the max. pressure kept for 1 hr.) and on the amt. and manner of the water added (with a 5 and 7 atm. pressure the added water for each variant was 50, 100, 150% of the abs. dry wt. of the raw material) was investigated. Analyses of the vapor phases and of the resulting products were performed for each case. All substances contained in the steam-gas mixt. obtained during the thermohydrolysis, in the dry powder obtained after the autoclave reaction, and in the steam-gas mixt. obtained after the pressure reaction were detd. Conclusions: CO_2 is the main gas component of both phases; no traces of CO, CH_4 or of any unsatd. hydrocarbons were found in the gas phase; the main component of the condensate was AcOH whose content was increased with an increase of the temp. and pressure; the amt. of lignin in the powder is increased; and the cellulose in the autoclave reaction process is only slightly decomposed.

W. H. Hom

METALLURGICAL LITERATURE CLASSIFICATION

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PLUNGYANSKAYA, M.N., kand.tekhn.nauk

Protective coatings based on water-repellent materials, perchlorvinyl, and epoxy lacquers and enamels. Trudy NIIZHB no.15:103-109 '60. (MIRA 13:9)

(Protective coatings)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

MOSKVIN, V.M., prof., doktor tekhn.nauk; PLUNGYANSKAYA, M.N., kand.tekhn. nauk; BALALAYEV, G.A., inzh., red.; MEDVEDEV, V.M., kand.tekhn. nauk, red.; KHAVIN, B.N., red.izd-va; EL'KINA, E.M., tekhn.red.

[Instructions for protecting reinforced concrete and masonry work by using varnish, paint, and water-repellent coatings] Instruktsiia po zashchite zhelezobetona i kamennoi kladki lakokrasochnymi i gidrofobiziruiushchimi pokrytiiami. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 58 p. (MIRA 13:3)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Moskvin).
(Protective coatings)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLUNGYANSKAYA, N.M., st. nauchnyy sotrudnik, kand. tekhn. nauk.

Fireproof wood paints. Nauch. soob. TSNIISK no.6:39-47 '58. (MIRA 12:3)

(Fireproofing of wood) (Paint, Fireproof)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341320015-1

PLURA, I.; KRAUSE, A.

On the preparation of ferromagnetic ferrites from natural raw materials. p. [illegible].

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, no. 1, 1959.

MONthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Uncl.

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