"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

OMNYAGIN, M. L., ed.

Cutters for high-speed metal cutting; experience of heavy machinery plants
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 37 p.
(54-38725)

TJ1230.U5

1. Cutting machines. 2. Metal-cutting. I. Moscow. Vsesoiuznyi proektno-tekhnologicheskii institut.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

ABANOV, L.V.; AL'SHITS, I.Ya.; BERDICHEVSKIY, Ya.G.; KODNIR, D.S.; UMNYAGIN, M.G.; USTYUZHANINOV, M.I.; KOROLEV, A.A., kandidat tekhnicheskikh nauk, redaktor; POPOVA, S.M., tekhnicheskiky redaktor

[Liquid friction bearings for rolling mills] Podshipniki zhidkostnogo treniia prokatnykh stanov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 195 p. (MLRA 8:6)
(Bearings (Machinery))

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G.

ZUBOK, V.N., inzhener, redaktor; UMNYAGIN, M.G., inzhener, redaktor; KASSATSIER, M.S., inzhener, redaktor; SHIFRIN, S.M., redaktor; TYEMKIN, A.V., redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor.

[Experience in introducing advanced technology in factories engaged in heavy machine building] Opyt vnedreniia peredovoi tekhnologii na zavodakh tiazhelogo mashinostroeniia. Pod obshchei red. V.N.Zubok, M.G.Umniagina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. 1955. 306 p. (MLRA 9:4)
(Machinery--Construction)

1. Moscow. Vsesoyuznyy proyektno-tekhnologicheskiy institut.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G., inzh.

Over-all mechanization and automation in the heavy machinery industry. Mashihostroitel' no.2/3:4-11 N-D '56. (MIRA 12:1)

1.Direktor Vsesoyuznogo proyektno-tekhnologicheskogo instituta Ministerstva tyazhelogo mashinostroyeniya SSSR.
(Automation) (Factory management)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G.

AID P - 4277

Subject : USSR/Engineering

Card 1/ Pub. 128 - 2/25

Author : Umnyagin, M. G., Engineer, Laureate of the Stalin Prize

Title : Some questions relative to the technological development of heavy machine building.

Periodical : Vest. mash., #2, p. 5-9, F 1956

Abstract : Many branches of industry (metallurgical, power, mining, coal and oil etc.) require steadily larger and heavier machine units which must be produced in limited numbers on special lathes, forging and stamping machines, etc. In order to make such machine building more efficient and economical, the author advocates concentrating the productic of one type of machine in one plant instead of many, modernizing the plants' equipment, applying new machine building methods, installing more automation in many machine shops, etc.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

AID P - 4277

Vest. mash., #2, p. 5-9, F 1956

Card 2/2 Pub. 128 - 2/25

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G.

122-5-10/35

AUTHOR: Umnyagin, M.G.

TITLE: Some Problems in the Development of Heavy Engineering Manufacture (Nekotoryye voprosy razvitiya tekhnologii tyazhelogo mashinostroyeniya)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, vol. 37 Nr 5, pp.25-32 (USSR)

ABSTRACT: Development trends and plans are discussed. The specialisation of manufacture will lead to the concentration of certain plants on specific sub-assemblies, e.g., gear-boxes. The maximum amount of metal forming prior to machining is to be practiced. The electric-slag method of welding large cross-sections is to be extended from a maximum wall thickness of 500 mm to 800 mm. The so-called sectional hot die-stamping applied to the forging of crankshafts has solved the problem of producing such accurate forgings of over a ton weight with a large economy in alloy steel. Investment castings and hot rolling of gear teeth are mentioned. The mechanisation of handling in heavy engineering plants is constantly improved. Forging manipulators and handling equipment for automatic and semi-automatic welding are mentioned. Mechanised production lines for the batch manufacture of typical structural frame assemblies for crane and other handling equipment

Card 1/3

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122-5-10/35

Some Problems in the Development of Heavy Engineering Manufacture.

construction is in preparation. The replacement of scraping by grinding is proceeding. Centralised manufacture of hydraulic and pneumatic pressure generating units is under way. A heavy pneumatic actuator and a horizontal dividing table with electrical drive are illustrated. The introduction of unit-type electro-mechanical machining heads is discussed. The setting-up of special machining installations for typical groups of components is reported under the heading of "intensification of production processes". Examples are given of the speeding up of drilling, screw-cutting and broaching. The use of complex set-ups for the simultaneous carrying out of several machining operations in small batch manufacture is illustrated. Combined mechanical and electrical machining methods are being introduced. Surface finishing by rolling and the speeding-up of press-forming, welding, and heat treatment operations is shown. Many plants are introducing standard planning charts of typical machining operation groups. In one instance of electric bridge crane manufacture, 973 different machining sequences have been reduced to 100. The variety of production planning tasks has been reduced from 4000 to 334 different components. The

Card 2/3

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122-5-10/35

Some Problems in the Development of Heavy Engineering Manufacture.

modernisation and specialisation of machining plant is reported with examples of foreign and Soviet heavy machinery. Standardisation of components has permitted the introduction of numerous continuous production lines in heavy engineering. There are 10 illustrations, including 5 photographs.

AVAILABLE: Library of Congress.

Card 3/3

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

SOV-135-58-3-2/19

AUTHORS: Umnyagin, M.G. and Zhivotinskiy, L.A., Engineers

TITLE: Complex Mechanization and Automation of Welding Processes in Heavy Machine-Building (Kompleksnaya mekhanizatsiya i avtomatizatsiya protsessov izgotovleniya svarnykh izdeliy v tyazhelom mashinostroyenii)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 3, pp 4-7 (USSR)

ABSTRACT: Information is presented on the development of complex mechanization of the welding process in the heavy machine-building industry. The following installations brought into use are described and illustrated 1) a production line for welding main beams of overhead travelling cranes (illustrated by a diagram of the entire line and photographs of its components); 2) an installation for welding spherical container bottoms; 3) an installation for electric slag welding of thick-walled drums; 4) a universal electric-slag welding installation for large size work; 5) welding manipulators; 6) an experimental installation for mechanized oxygen cutting of shaped pipes (samples of cuts made with this machine are shown in a photograph. There are 11 photographs and 1 diagram.

Card 1/2

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SOV-135-58-3-2/19

Complex Mechanization and Automation of Welding Processes in Heavy Machine-Building

ASSOCIATION: Vsesoyuznyy proyektno-tekhnologicheskiy institut tyazhëlogo mashinostroyeniya (All-Union Institute for Technology and Design of Heavy Machine-Building)

1. Welding--Equipment 2. Welding--Applications

Card 2/2

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

S/122/60/000/008/001/006
A161/A029

AUTHORS: Vinogradov, K.K., Umnyagin, M.G., Kharaker, G.M., Engineers

TITLE: Heavy Machine Building Development in the Seven-Year Plan

PERIODICAL: Vestnik mashinostroyeniya, 1960, No. 8, pp. 7-17

TEXT: A general review is made of the development planned for 1959-1965 in the production of equipment for electric power plants, metallurgy, mining, oil and gas industry and in the production technology of machine works that have to build the equipment. For heat power plants single steam turbines will be developed, mainly condensation turbines of 300,000 kw with an initial steam pressure of 240 atm and 580°C, and a few 600,000 kw turbines; condensation turbines of 150 and 200 thousand kw with 130 atm and 565°C; heating turbines with steam bleeding for industrial use, of 50 and 100 thousand kw and 130 atm/565°C, and some of 12 and 25 thousand kw. Experimental sets will be built for 300 atm/650°C and higher. Gas turbines will be built for 25 and 50 thousand kw and 750-800°C gas temperature (the maximum before 1959 was 12 thousand kw and 650°C). Single gas turbines of up to 100 thousand kw are planned. Large-scale output of 4,000, 6,000 and 9,000 kw gas turbines is under preparation for compressor stations on

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A161/A029

Heavy Machine Building Development in the Seven-Year Plan

long-distance gas pipe lines. Gas turbines will be used in railroad transport, the metallurgical and oil industry. The power of single water turbines will be raised to 300,000 kw. One of the major tasks at the time being is the development of 215,000 kw turbines for the Bratskaya GES (Bratsk Hydroelectric Power Plant). Turbocompressors will be built of up to 150,000 m^3/hour capacity and 8-9 atm pressure; blast furnace compressor pressure will be raised to 3.8-4.2 atm. Boilers of two or three different designs for different fuel have to be developed for 200,000 and 300,000 kw steam turbines; with 810 ton/hour steam capacity and 315 atm for the 300,000 kw turbines; and of 950 and 1,900 ton/hour and 140 atm and 570°C; 250 atm and 585°C. In the metallurgical industry, a blast furnace with 1,719 m^3 volume will be used in the main part; 1,003, 1,386 and 1,513 m^3 furnaces will also be built; the first 2,000 m^3 furnace is being built in 1960, and in 1961 equipment for 2,700 m^3 volume blast furnaces will be produced. The first 2,700 m^3 furnace has to be built in 1962. Steel output will be increased mainly by designing 500-600 tons and larger open-hearth furnaces. The oxygen process in converters is coming into use. The annual output of 65-70 million tons of rolled steel (at least 35 % of it sheet) to be reached by 1965 will take new rolling mills with automatic control; the continuous rol-

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A161/A029

Heavy Machine Building Development in the Seven-Year Plan

ling process can eliminate the roughing mills (blooming and slabbing mills) if the new equipment combining the continuous teeming unit and the rolling mill will be a success. The rolling speed already reached is high: 11-12 m/sec in continuous sheet mills; 15-18 m/sec in continuous merchant mills and 25-30 m/sec in wire mills. But higher speeds are needed and the rolling mills must be built in a shorter time. Planetary mills and multi-roll mills for 0.1-m sheets of common and special steel, heavy and light nonferrous metals and very thin 1-2-micron bands of high-melting and rare metals are mentioned as becoming very important. The number of tube rolling mill types is low compared with foreign practice. A new cold tube mill type is developed rolling thin-walled tubes with high surface finish (wall thickness less than 1/100 of diameter). The finishing (eliminating defects, piling, marking, sorting, etc.) occupying 80 % of labor must be mechanized. In the ore-mining industry, more than 150 new machines have to be developed, including multibucket wheel excavators with overburden bridge of up to 3,000 m^3/hour capacity; one-bucket excavators with 25, 30 and 50 m^3 bucket. In coal mines work has to be mechanized or automated; dislodging of coal by hydraulic means has to be raised 10 times. About 700 new coal mining machine types

Card 3/6

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A161/A029

Heavy Machine Building Development in the Seven-Year Plan

have to be produced. One example is a stoping machine set with a cutter-loader for 0.85 to 1.8-m flat coal seams, with hydraulic propping system. In the oil and gas industry the output of drilling equipment has to be doubled and the drilling speed raised. The well diameters will be reduced. Turbo-drills and electric drills of new designs will be used. For off-shore drilling new equipment is needed for drilling at longer distance from the shore, as well as for 8 to 10 thousand meter depths. The oil refineries will be equipped for a 2 million tons annual output instead of 600,000 tons by 1952-1958. For foundries of machine building works the mechanization problem seems to be solved in two reconstruction projects developed by VPTI tyazhelogo mashinostroyeniya (VPTI of Heavy Machine Building) for the Uralmashzavod and the Elektrostal'skiy zavod tyazhelogo mashinostroyeniya (Elektrostal' Heavy Machine Building Works). The Uralgiprotyazhmash institute participated in the projects. Casting of up to 800 kg will be produced in three semi-automatic production lines placed across the six bays of the foundry and each bay will be "specialized"; 2-3-ton castings will be produced in separate plots with modernized 17-ton molding machines and a 40-ton table; large castings weighing 30-40 tons will be made in special mecha-

Card 4/6

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S/122/60/000/008/001/006
A161/A029

Heavy Machine Building Development in the Seven-Year Plan

nized casings ("caissons"), and very large castings of up to 150 tons in reinforced concrete casings, using catilever sand slingers of 40-50 m^3/hour capacity. Cores will be made on 12 lines. The mixing will be mechanized, large castings will be knocked out automatically; hydraulic and shot-blast chambers will be used for cleaning castings, and a new electrolytic cleaning method will come into use. It is estimated that the Uralmashzavod will raise the output of steel castings to 90 tons per man from the present 58 tons annually, cut costs by 23 %. "Jacket molding" used at the Elektrostal' works and experiments with a mechanical molding casing at the NKMZ gave a proof that large castings can be produced 2 to 2.5 times faster comparing with 10-30 days with manual molding when molds are joined from standardized sections made from quick-drying mixtures in molding machines. The first mechanical line for the preparation of large mold boxes (up to 3x2.5x1 m), designed by VPTI, is working at the Electrostal' works since 1959. It is a merry-go-round installation with 6 carriages bearing "coordinate plates" with automatic fixing of patterns, preparing 32 molding box halves per hour TsNIITMASH has developed a 2-position molding machine with pressing membranes for making shell molds from mixtures with water glass. The foreign molding method with the use of wet bentonite mixes will be used, as it eliminates

Card 5/6

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A161/A029

Heavy Machine Building Development in the Seven-Year Plan

the drying and facing of molds. Centrifugal and die casting will be used for a wider range of castings than before, and it is planned to develop equipment and technology for centrifugal casting of steel and cast iron blanks weighing up to 50 tons. It is mentioned that electroslag welding will be used extensively for joining portions of heavy forgings, and presently the method is used in production of turbine shafts (previously one-piece 190-ton forgings had to be produced). Of the existing machine tools 30-40 % must be replaced by new equipment, and 20-30 % must be modernized; machining methods are to be improved. There are 4 figures.

Card 6/6

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

KULAGIN, Ivan Dmitriyevich, kand.tekhn.nauk; SHASHKOV, Andrey Nikolayevich, kand.tekhn.nauk; UMNYAGIN, Mikhail Grigor'yevich

Specialists answer questions about welding. Tekh. mol. 28 no. 12:7-10 '60. (MIRA 13:12)

1. Institut metallurgii imeni A.A.Baykova AN SSSR. (for Kulagin). 2. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta avtogennoy obrabotki metallov (for Shashkov). 3. Direktor Vsesoyuznogo proyektno-tekhnologicheskogo instituta tyazhelogo mashinostroyeniya (for Umnyagin).
(Welding)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

S/122/61/000/010/002/011
D221/D304

AUTHORS: Vinogradov, K.K., Cief of Department, and Umyagin, M.G., Director

TITLE: Complex mechanization and automation in heavy engineering

PERIODICAL: Vestnik mashinostroyeniya, no. 10, 1961, 9 - 16

TEXT: The author state that the Soviet-engineering industry has mastered technological methods of manufacturing individual components. Great importance is attached to slag welding, and the use of unit and special prupose machine tools as well as broaching. Sp[redacted] stands equipped with milling, boring and planning heads for single piece production are designed by machine tool makers, with work organized around the component. The Uralmash[redacted]avod organizes production so as to have [redacted]0 % of the components made up of standa ized parts, 40 % of general designation components, and only [redacted]0 % of special items. Casting is to be organized in new and reconstructed shops on the basis [redacted] flow lines envisaged by the steel

Card 1/4

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castings department of the Uralmashzavod or Elektrostal'skiy Plant of Heavy Engineering. Castings are grouped according to size and weight which are handled by specialized sections [redacted]ring complex automation of basic and auxiliary operations. Pattern and moulding box manufacture is normalized. Each group has a single coordinate moulding plate and moulding box size which permits the process to be automated. The planned output of one operator on a line of castings with maximum weight of up to 5000 kg increased 3-4 times as compared to the present production of castings on forming machines with a capacity of 5 tons, whereas on lines with lighter castings this rise may reach 6 times. Large castings are to be made in mechanized caissons, reinforced concrete caissons are foreseen in the case of very large moulds, with application of overhang sand-throwers having a capacity of 40-50 m^3/hour. Cores are made in blocks 1 m long and wide. These lines are composed of a rotary installation of six trolleys, on which coordinates plates with automatic clamping of patterns are mounted. Output of line is 32 half forms by shift, with maximum size of mould [redacted] x 2.5 x 1 m. Sand-jet forming increases the work efficiency by 1.5 - 2.5 times. Handling is

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automated. The complex automation of foundry includes the problem of an electronic computer for cupola charge and control of melting process. Design and modernization of foundry machines is also important. In the field of forging, VPTI has developed a project of complex mechanization. Thermal treatment is to be automated with furnace doors operated from the control panel of charger or loading crane. The level of mechanization is planned to be raised from 50 to 75 %, and that of handling from 60 to 99 %. Work efficiency of an operator will increase by 1.5 times, output per square meter of shop floor will be stepped up by 2.5 times, with a simultaneous reduction of average specific labour by 2.5 times. The introduction of flow lines in manufacturing head and main beams for electric travelling cranes should be mentioned. The use of special stands for machining large components at Uralmashzavod is of great importance. The authors consider that the main problem of engineering is the reduction of volume of machining by rational approximation of dimensions and surface finish of blanks. The stability of machining processes and typicalization as well as standardization of components are also decisive in automation. Increased use of

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computers for work preparation is called for. Mechanization of auxiliary operations, which utilizes now about half of the operators in USSR is considered as urgent. There are 5 figures.

ASSOCIATION: Otdel ekonomiki i razvitiya tyazhelogo mashinostroeniya Gosekonomsoveta SSSR (Department of Economics and the Development of Heavy Machine Construction of the Gosekonomsovet, USSR); VPTI tyazhelogo mashinostroeniya (VPTI of Heavy Machine Construction)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

SPASSKAYA, O.V., inzh.; UMNYAGIN, M.G., inzh.

Determining the degree of mechanization and automation of production processes in the machinery industry. Mekh. i avtom.proizv. 15 no.12:41-47 D '61. (MIRA 14:12)
(Machinery industry) (Automation)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M. G.

Determining the degree of mechanization and automation of production processes in the machinery industry. Vest. mashinostr. 42 no.12:68-74 D '62. (MIRA 16:1)

1. Direktor Vsesoyuznogo proyektno-tekhnologicheskogo instituta tyazhelogo mashinostroyeniya.

(Industrial management)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G., inzh.; KAGAN, N.Ya., inzh.

Means for over-all mechanization of founding processes at heavy machinery plants. Vest.mashinostr. 43 no.4:43-50 Ap '63. (MIRA 16:4)
(Founding—Technological innovations)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G., inzh.

Present state and prospects for the development of overall mechanization of welding in the heavy machinery industry. (MIRA 18:3)
Svar. proizv. no.2:18-23 F '65.

1. Vsesoyuznyy proyektno-tekhnologicheskiy institut tyazhelogo mashinostroyeniya.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G.

Basic trends in the over-all mechanization of the metallurgical machinery industry. Mekh.i avtom.proizv. 18 no.3:5-11 Mr '64. (MIRA 17:4)

1. Direktor Vsesoyuznogo proyektno-tekhnologicheskogo instituta tyazhelogo mashinostroyeniya.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGIN, M.G., inzh.; KHARAKER, G.M., inzh.

Some problems in the development of technological processes in the manufacture of heavy machinery in the countries of the Council of Mutual Economic Assistance. Vest.mashinostr. 44 no.1:54-59 Ja '64. (MIRA 17:4)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

GRIGOR'YEV, N.G., inzh.; UMNYAGIN, M.G., inzh.; KHARAKER, G.M., inzh.

Development of technology in the metallurgical machinery industry. Vest. mashinostr. 44 no.9:79-83 S '64. (MIRA 17:11)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

1. UMNYAGIN, M. Ye., ed.

2. USSR (600)

4. Technology

7. Mechanized knockout, scouring, and cleaning of steel and cast iron castings, Moskva, Mashgiz, 1952.

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

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAGINA, M.G.

UMNYAGINA, M.G., laureat Stalinskoy premii, inzhener, redaktor; TIKHONOV, A.Ya. tekhnicheskiy redaktor.

[General Stakhanovite technology in the mechanical processing of large machine parts; work practice of the Novo-Kramatorsk Stalin Machine-Building Factory in Elekrostal] Kompleksnaia stakhanovskaia tekhnologiia mekhanicheskoi obrabotki krupnykh detalei; iz opyta raboty Novo-Kramatorskogo mashinostroitel'nogo zavoda imeni Stalina, g.Elektrostal'. Pod red. M.G.Umniagina. Moskva, Gos.nauchno-tekhnicheskoe izd-vo mashinostroit.lit-ry, 1953.26 p. (Microfilm)(MLRA 9:5)

1.Moscow. Gosudarstvennyy soyuznyy institut Orgtyazhmash.
(Elektrostal--Machinery--Construction)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, I.; ALESKEROV, Yu.; KOCHEROV, V., red.; BAKHTIYAROV, A., tekhn. red.

[Samarkand; manual and guidebook] Samarkand; spravochnik-putevoditel'. 3., dop. i ispr. izd. Tashkent, Gos.izd-vo UzSSR, 1962. 159 p. (MIRA 16:5)
(Samarkand—Guidebooks)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, I.I.; ALESKEROV, Yu.N.; MIKHAYLOV, K.M.

[Samarkand; a guidebook] Samarkand; kiskacha spravochnik. Tuzuvchilar: I.I.Umniakov, IU.N.Aleskerov i K.M.Mikhailov. Toshkent, Uzbekiston SSR davlat nashrieti, 1958. 106 p. (MIRA 11:12) [In Uzbek].

(Samarkand--Description--Guidebooks)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, I.I.; ALESKEROV, Yu.N.; KOVYNEV, N., red.; BAKHTIYAROV, A., tekhn.red.

[Samarkand; concise reference book] Samarkand; kratkii spravochnik. Izd.2., dop. i ispr. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1958. 158 p. (MIRA 14:2)
(Samarkand--Guide books)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, P., kand.tekhn.nauk

Studies of laminated vibrated brick slabs. Sel'. stroi. 16 no.12: 17 D '61. (MIRA 15:2)

(Brick walls)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, P. N., Cand Tech Sci (diss) -- "The use of reflective thermal insulation in the wall structures of buildings". Moscow, 1959. 16 pp (Acad Construction and Architecture USSR, All-Union Sci Res Inst of New Building Materials), 150 copies (KL, No 12, 1960, 128)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, P.N., inzh.

Using reflecting heat insulation in building walls. Nov.tekh.mont.i spets.rab.v stroi. 21 no.5:22-25 My '59. (MIRA 12:7)

1. Nauchno-issledovatel'skiy institut stroitel'noy fiziki Akademii stroitel'stva i arkhitektury SSSR.
(Insulation (Heat)) (Walls)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, P.N., inzh.

Study of heat engineering properties of some types of vibrated brick slabs. Trudy NIISF no.1:72-79 '62. (MIRA 15:11)
(Brick walls--Thermal properties)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMNYAKOV, P., kand.tekhn.nauk

Economical keramzit concrete slabs. Sel'. stroi. no.7:4-5 '62. (MIRA 15:8)

(Walls) (Lightweight concrete)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

SPIVAK, N.Ya., kand. tekhn. nauk; USHKOV, F.V., kand. tekhn. nauk; UMNYAKOV, F.N., kand. tekhn. nauk; TACHKOVA, N.A., inzh.

Heat conductivity of keramzit concrete. Bet. i zhel.-bet. 9 no.3:137-140 Mr '63. (MIRA 16:4)

(Keramzit)
(Lightweight concrete--Thermal properties)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

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UMNYAKOV, P.N., kand. tekhn. nauk

Heat conductivity of "arbolite" in enclosing structures.
Stroi. mat. 9 no.6:36-37 Je '63. (MIRA 17:8)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

MOROZOV, N.V., doktor tekhn. nauk; DMITRIYAKOV, F.N., kand. tekhn. nauk

Thermophysical characteristics of perlite-concrete enclosing elements of large-panel buildings. Stroi. mat. 11 no.2:20-22 F '65. (MIRA 18:3)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

KOROBEYNIKOV, V.; [illegible], V.

Work of the Council of Young Specialists in our plant. Mashinostroitel' no. 2:42 F '61. (MIRA 14:2)
(Izhevsk--Machinery industry)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

DOMNITSKIY, V.F., inzhener; UMNYKH, V.F.

Automatic loading of drier cars. Der. prom. 5 no.10:21 O '56. (MLRA 9:11)

1. Ussuriyskiy lesozavod no.1-2 Minlesproma SSSR.
(Lumber--Drying)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Stupnikov, A. I., and Umov, A. A. LIMESTONES AND DOLOMITE OF TSCHUSSOV DEPOSITS "BELOIE KAMEN." *Ural Met.*, 8 [9] 9-10 (1939).—The limestone and the dolomite of the deposit contain, respectively, SiO_2 0.75 and 0.71, CaO 29.5 and 32.7, MgO 0.8 and 20.8, [illegible]

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

Limestones and dolomite of Tschussov deposits "Belsil Kamen." A. I. Stupnikov and A. A. Umov. *Ural Met.* 8, No. 9, 9-10(1939); *Chem. Zentr.* 1940, I, 3240.—The limestone and the dolomite of the deposit contain, resp., SiO_2 0.75 and 0.74, CaO 50.5 and 32.7, MgO 0.8 and 20.8, loss on ignition 43.5 and 45.8%. M. V. Condoide

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, Aleksei Alekseevich

(An aid for brigades of bricklayers of metallurgical plants) Sverdlovsk, Gos. nauch.-tekhn. izd-vo lit-ry pochernoi i tsvetnoi metallurgii, 1944. 151 p.

(50-47277)

TN677. U483

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, Alekseyevich; PAVLOV, M.A., nauchnyy redaktor.

[Gas fitter's instructions for the Cowper stove] Pomoshchnik gazovshchika u kaupera. Pod nauchnoi red. M.A.Pavlova. Sverdlovsk, Gos. nauch.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1947. 423 p.

(Gas--Heating and cooking) (MLRA 8:1)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, N. A.

C 1A

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, N.

Izbrannye Sochineniia - Matematika, Mekhanika, Fizika, Astronomiia (Selected Works - Mathematics, Mechanics, Physics, Astronomy)

553 p. 2.25

SO: Four Continent Book List, April 1954

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, N. A.

Author: Umov, N. A., 1846-1915

Title: Selected Compositions. Ed. by A. F. Predvoditelev. 553 pp., ports., diagrs., bibliography

Date: 1950. Moscow

Subject: Physics.--Collected works.

Available: Library of Congress, Call No: QC3.U5

Source: Lib. of Cong. Subj. Cat., 1951

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, Nikolai Alekseevich; USAGIN, Ivan Filippovich

Physicists

Ivan Filippovich Usagin (1835-1919) and Nikolai Alekseevich Umov (1846-1915) in the history of technology in our country. Sov. sviaz. No. 8, 1951.

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, S.S., kand.sel'skokhoz.nauk

Chick-pea in the southern cis-Ural region. Zemledelie 8 no.11:39-41 N '60. (MIRA 13:10)

1. Bashkirskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.

(Ural Mountain region—Chick-pea)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, Ye.; STRIMBAN, Yu.

Improve the management of grain procurement stations. Muk. elev. prom. 23 no.12:13-14 D '57. (MIRA 11:2)

1. Sverdlovskoye oblastnoye upravleniye khleboproduktov.
(Grain elevators)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOV, Ye.; KADLUBIK, I.

Organizing the production of break flower in the SOB-MK grain dryling and cleaning towers of grain receiving stations. Muk.-elev. prom. 27 no.8:20-22 Ag '61. (MIRA 14:7)

1. Sverdlovskoye upravleniye zagotovok.
(Grain milling)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, p 70 (USSR) 15-57-5-6184

AUTHOR: Umova, L. A.

TITLE: A Rarely Observed Granular Structure of an Oolitic Limestone (Redko nablyudayemaya zernistaya tekstura oolitovogo izvestnyaka)

PERIODICAL: Tr. Gorno-geol. in-ta, Ural'sk. fil. AN SSSR, 1955, Vol 26, pp 241-242.

ABSTRACT: Oolitic limestones with granular structure have been discovered in the lower part of the Triassic-Jurassic productive coal beds on the eastern slope of the Urals. Carbonate oolites with a diameter of 0.8 mm to 2 mm are bordered by spherulitic rims up to 0.4 mm thick. The seams between individual grains are covered by a thin film of iron hydroxides.

Card 1/1

O. I. Z.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3, p 12 (USSR) 15-1957-3-2628

AUTHORS: Papulov, G. N., Umova, L. A.

TITLE: Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon (Melovyye i paleogenovyye otlozheniya pravoberezh'ya r. Iseti v predelakh Shadrinskogo rayona)

PERIODICAL: Tr. Gorno-geol. in-ta, Ural'skiy fil. AN SSSR, 1956, vol 24, pp 178-186

ABSTRACT: The stratigraphic subdivision of the Upper Cretaceous and Paleogene marine deposits of the region has been made from data obtained from three holes drilled near Shadrinsk in 1949-1950. All the drill-holes passed through Paleogene and Upper Cretaceous rocks. Continental beds, apparently Lower Cretaceous, were encountered in two holes. The Paleozoic substratum (argillaceous-chloritic metamorphosed shales at a depth of 330.5 m) was uncovered only in drill-hole No. 1.

Card 1/7

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Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon 15-1957-3-2628

Detailed descriptions are given of the stratigraphy of the Cretaceous and Tertiary rocks, their mineralogical peculiarities, and their fossil content. The age of the rocks has been determined by comparing the fossils with those of neighboring regions (see Table).

System	Group and Series	Thickness, m	Lithology	Guide fossils
Quaternary		up to 16	Brown sandy clays, sands, clays	
↑	Oligocene	up to 34	Clays, beidellitic, olive green and laminated, silty in lower part	

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon 15-1957-3-2628

S - PALEOGENE S

Eocene	up to 47	Diatomite, light gray	Diatoms: Melosira sulcata Grun., Stephanopyxis grunowi Gr. and St., S. turris var. intermedia Grun., Goscinodiscus /Coscinodiscus!/ moelleri Grun., C. argus Ehr., and others. Siliceous flagellates: Dictyocha quadrata Hanna, D. navicula var. biapiculata Lemm., and others.
	up to 62	Opaline muds, gray and dark gray, argillaceous in upper part. siltstones, sands and sandstones, quartzose, argillaceous, local opaline cement	

Card 3/7

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon 15-1957-3-2628

	Paleo-cene	up to 42	Mudstones, beidellitic, gray and dark gray	Foraminifers: Globigerinella voluta White, Globigerina bulloides d'Orb., G. pseudobulloides Plumm. G. triloculinoides Plumm., Glomospira choroides (Park and Jon.), Trochammina sp. Diatoms: Stephanopyxis turris var. cylindrus Grun., Trinacria regina var. obtusa As.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon 15-1957-3-2628

	Danian	up to 8	Marls, light gray, with layers of siderite	Foraminifers: Clavulina parisiensis d'Orb., Anomalina acuta Plum., Stensioina caucasica (Subb.).
	Maestrichtian-Campanian	25-90	Marls, light gray, silty, with rare layers of siderite	Foraminifers: Bolivina decurrens Ehr., B. incrassata Reuss, Bolivinoides decoratus Jones, Orbignina sacheri Reuss, Cibicides gankinoensis Nezk., Nonionella kalinina Balach, Gaudryina, stephenioni Cushm.

Card 5/7

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon 15-1957-3-2628

CRETACEOUS	Santonian	24-44	Sandstones with layers of sand, Mudstones, montmorillonitic-beidellitic, greenish gray. Opaline muds, gray and dark gray, locally silty	Foraminifers: Spiroplectammina kelleri Dain., Haplophragmoides glameratiformis Zasp., H. champani Moroz., Reaphax ex gr. guttifer Brady.
	Turonian	38-40	Mudstones, hydromiceous-beidellitic, greenish-gray, sandstones with cobbles and phosphatic concretions in lower part	Foraminifers: Gaudryipa filiformis Bert., Ammabaculites ex gr. agglutinans d'Orb., Haplophragmoides aff. nonioninoides (Reuss), Reophax sp.

Card 6/7

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Cretaceous and Paleogene Rocks Along the Right Bank of the Iset' River in the Shadrinskiy Rayon. 15-1957-3-2628

	Cenomanian-Albian?	up to 28	Siltstones, feldspathic-quartzose, argillaceous with layers of siderite	
	Lower Cretaceous	up to 23	Clays, kaolinitic, variegated, with plant remains	
	Paleozoic		Metamorphosed shales	

Card 7/7

V. A. L.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVA, L.A.

Lithology and facies of Maastricht sediments in eastern slopes of the Central Urals. Trudy Gor.-geol. inst. no. 28:89-96 '57. (MIRA 11:10)

(Ural Mountains--Geology, Stratigraphic)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVA, L. A.

3(5) PHASE I BOOK EXPLOITATION SOV/2403

REFER. Glavnoye upravleniye geologii i okhrany nedr. Ural'skoye geologicheskoye upravleniye.

Materialy po geologii i poleznym iskopayemym Urala, vyp. 6 (Materials on the Geology and Mineral Deposits of the Urals, Nr.6) Moscow, Gosgeoltekhizdat, 1958. 190 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Ministerstvo geologii i okhrany nedr SSSR.

Ed.: P. I. Aladinskiy; Deputy Ed.: K. V. Mukrushin; Ed. of Publishing House: G. F. Kuznetsova; Tech. Ed.: O. A. Gurova; Editorial Board: V. V. Belov, N. A. Kurshevin, K. Yo. Kozhevnikov, A. A. Korol'kov, P. V. Nechayev, M. A. Peyerkov, I. D. Sobolev, and B. F. Tarkhanayev.

PURPOSE: This book is intended for geologists and economists interested in the mineral resources of the Urals.

COVERAGE: This collection of articles treats aspects of the physical geology and mineralogy of the Urals. Individual papers discuss: bauxite deposits, oolitic iron ore deposits, the Tobol'sk titanium and zirconium deposits, and problems in structural geology. No personalities are mentioned. References accompany each article.

Sharova, A. K. Structure of the Paleozoic Bauxites of the Urals 91

Card 2/3

Sharova, A. K., and A. K. Gladkovskiy. The Problem of Correlating Limestones and Its Significance in Exploration and Prospecting of Devonian Bauxites in the Urals 103

Umova, L. A. Petrographic Characteristics of the Oolitic Iron Ores of the Magny River Basin in Central Zaural'ye 111

Sigov, A. P. Geologic Structure and Future Possibilities of Southern Zaural'ye 120

Nechayev, P. V. Methods of Prospecting - Exploratory Work on the Tobol'sk Alluvial Titanium - Zirconium Deposits 129

Shabalina, N. S. Hydrogeological Conditions of Manganese Ore Deposits in the Northern Urals 134

Kuklin, N. Y. The Problem of Criteria for Compiling Metallogenic Maps for Magnetite Deposits of the Urals. 143

AVAILABLE: Library of Congress

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVA, L.A.

Glauconite-leptochlorite rocks in the Northern Sos'va Valley. Trudy Gor.-geol. inst. UFAN SSSR no. 42:203-210 '59. (MIRA 14:2)

(Northern Sos'va Valley--Glauconite)
(Northern Sos'va Valley--Leptochlorite)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVA, L.A.

Lithology and facies of Cretaceous and Paleogene sediments of the eastern slope of the Central Urals and minerals associated with them. Trudy SNIIGGIMS no.1:55-59 '59. (MIRA 15:4)
(Ural Mountains--Sediments (Geology))

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

B-I-5

Reaction of alumina with iron sulphide in presence of carbon. A. S. Mikulinski and M. A. Umova (Metallurg, 1934, 9, No. 10, 34—42).—The reaction $Al_2O_3 + 3FeS \rightleftarrows Al_2S_3 + 3Fe + 3CO$ proceeds to the right at >1400°. As a result, Al_2O_3 in blast-furnace slags should help in desulphurising the pig Fe. Ch. Abs. (e)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

4

Electrothermal production of aluminum and its alloys. A. S. Mikulinskii and M. A. Umova. *Tsvetnye Metal.* 1940, No. 5-6, 129-34.—A review on electrothermal extn. of Al is followed by a description of new expts. made for the purpose of obtaining melts of Al carbide and alloys of Al with Si and with Cu. Heats were made in an elec.-arc furnace at 35-7 v. and 450-500 amp. (1) Al_2O_3 was melted with carbon; the melts analyzed 24 to 35% Al_4C_3 and 30 to 35% Al, remainder slag. About 30% of the Al went into the melt, 35% to slag, and the remainder was volatilized. With increase of excess C the losses in Al_2O_3 increased. Higher temps. increased the metallic Al in the melt to 70%. (2) Melts were made with addn. of NaCl in the amts. of 5 to 25% of the wt. of the Al_2O_3. Analyses of the melt showed 40-50% Al and 35 to 50% Al carbide. The disadvantage of this method is the large amt. of slag and sepn. into layers. Al obtained with the addn. of NaCl contained 0.004 to 0.04% Na. (3) Melts made with addn. of SiO_2 and charcoal resulted in a product contg. 60 to 78% Al, 1 to 4% Al_4C_3 and 10 to 18% Si. Large amounts of slag were formed when SiO_2 was used. (4) With addn. of Cu the amount of slag was less, 27-38% of the total Al of the charge was found in the melt, and the melt analyzed 50-70% Al, 8-14% Al_4C_3 and 10-19% Cu. Al can be extd. from carbide melts by remelting at 700 to 800° and holding it for 3-4 hrs. at that temperature. 28 references. H. N. Danilov

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVA, M.A.; LORIYE, Yu.I.; BYUR, L.S.; POLYANSKAYA, A.M.

Simultaneous sensitization to some erythrocyte antigens. Probl. gemat.i perel.krovi no.11:56-58 '61. (MIRA 15:1)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i pereliviniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov [deceased]) Ministerstva zdravookhraneniya SSSR.
(RH FACTOR) (ERYTHROCYTES) (ANTIGENS AND ANTIBODIES)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVA, M.A., kand. tekhn. nauk, dots.; LOSHKAREV, A.G., dots., otv. red.

[Heterogeneous equilibrium; lectures for correspondence students] Geterogennoe ravnovesie; lektsii dlia studentov-zaochnikov. Sverdlovsk, Izd. Sverdlovskogo gornogo in-ta, 1964. 58 p. (MIRA 17:11)

1. Zaveduyushchiy kafedroy khimii Sverdlovskogo gornogo instituta imeni V.V.Vakhrusheva (for Loshkarev).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

BEGUNOVA, L.I., red.; BRUSILOVSKIY, Ye.S., dots., red.; DASHTYANTS, G.A., prof., red.; POLISHCHUK, I.A., prof., red.; UMOVIST, M.M., dots., red.; FEDOROV, I.I., prof., red. DASHTAYANTS, G.A., red.; BRUSILOVSKIY, Ye.S., red.

[Allergy problems in clinical practice] Voprosy allergii v klinike. Kiev, osmedizdat USSR, 1963. 221 p. (MIRA 18:9)

1. Kiyevskiy Gosudarstvennyy institut usovershenstvovaniya vrachey. 2. Glavnyy vrach Gorodskoy klinicheskoy bol'nitsy Shevchenskogo rayona goroda Kiyeva (for Begunova). 3. Kiyevskiy Gosudarstvennyy institut usovershenstvovaniya vrachey (for Polishchuk, Umovist).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMOVIST, M.N., kandidat meditsinskikh nauk

Blood supply of the upper third of the esophagus during mobilization. Vrach.delo no.2:159-162 F '56. (MLRA 9:7)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii (zaveduyushchiy professor S.T.Vovitskiy) Kiyevskogo meditsinskogo instituta.

(ESOPHAGUS--BLOOD SUPPLY)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

GUBANOV, Aleksey Gavrilovich; UMOVIST, M.N., red.; POTOTSKAYA, L.A., tekhn. red.

[Partial pulmonary resections in tuberculosis; anatomical and experimental materials] Chastichnye rezektsii legkikh pri tuberkuleze; anatomicheskie i eksperimental'nye materialy. Kiev, Gosmedizdat USSR, 1961. 303 p. (MIRA 15:7)
(TUBERCULOSIS) (LUNGS—SURGERY)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMPIROVICH, N.V.; GEL'MAN, G.T.

Tumor of the hypophysis in combination with thyrotoxicosis. Zdrav. Bel. 7 no. 4:72-73 Ap '61. (MIRA 14:4)

1. Iz Belorusskogo protivozobnogo dispansera (glavnyy vrach - dotsent N.M. Draznin).
(PITUITARY BODY—TUMORS) (THYROID GLAND—DISEASES)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMPEROVICH, N.V.

14(5) PHASE I BOOK EXPLOITATION SOV/2820

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 26 (Exploration and Industrial Geophysics, Nr 26) Moscow, Gostoptekhizdat, 1958. 87 p. (Series: Obmen proizvodstvennym opytom) 4,000 copies printed.

Ed.: M.K. Polshkov; Exec. Ed.: Ye.G. Pershina; Tech. Ed.: A.S. Polosina.

PURPOSE: This booklet is intended for exploration geophysicists and geologists.

COVERAGE: This collection of articles includes discussions of improvements in seismic exploration techniques and interpretations of data obtained by the refracted and reflected waves method of seismic exploration. Individual articles discuss: the construction of gravimetric maps, improvements in industrial borehole equipment, the standardization of radioactive electrologging equipment, and methods for computing labor productivity in geophysical operations. A nomogram to facilitate the interpretation of data and conditions when using gamma logging of boreholes is described. References accompany each article.

Card 1/3

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TABLE OF CONTENTS:

Shneyerson, M.B. Seismic Electrologging With Refracted Waves 3

Gurevich, B.N., and N.V. Umperovich. Simplification of observations in the Reflected Wave Exploration Method Used in the West Siberian Plains 15

Yurov, Yu.G., and S.P. Yartanov. Marine Seismic Exploration 21

Urupov, A.K., and Ye.M. Cheremnykh. Seismic Soundings in Determining the Velocities of Elastic Waves 25

Tal'-Virskiy, B.B. Method of Plotting Refracting Horizons in the Presence of a Mean Velocity Gradient of Arbitrary Direction 34

Sazhina, N.B. An Example of a Rational Selection of an Isoanomaly Cross-Section for Gravimetric Maps 40

Shvank, O.A. Accuracy of an Approximative Evaluation of Elevation Differences Based on a Formula of the Gravity Effect of an Infinite Bed 44

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Zaporozhets, V.M., and V.V. Sulin. Differential Spectra of γ Radiation From Cylindrical Radiators 49

Sulin, V.V. Standardization of Equipment for Radioactive Logging 54

Zel'tsman, P.A. Newly Designed Parts for Borehole Equipment 70

Buryakovskiy, L.A. Nomogram for Determining the Specific Resistivity of Formation Water 74

Tishchenko, B.Ye. On the Problem of Developing Methods for Computing Labor Productivity in Geophysical Operations 77

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

TUYMZOV, I.K.; UMPEROVICH, I.V.

Studying the surface of the Pre-Jurassic basement of the West Siberian Plain by the method of reflected waves. Trudy SNIIGGIMS no. 30:75-81 '64 (MIRA 19:1)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMPEROVICH, N.V.; TUYEZOV, I.K.; PASHUTINA, S.R.

New data on the multiple reflection of waves in the West Siberian Plain. Geol. i geofiz. no.9:81-92 '64. (MIRA 18:7)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya, Novosibirsk.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMPEROVICH, N.V.

Determining the types of multiple reflected waves in the Ob'-Irtysh interfluve of the West Siberian Plain on the basis of kinematic analysis. Geol. i geofiz. no.8:77-86 '65. (MIRA 18:9)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya Novosibirsk.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMRATH, KARL,
HANS V. BRUCKE, Ophthalmologica 117, 19-35 (1949)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

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Blocking of the transmission of stimuli from secondary sensory cells to the sensory nerves and lowering of the sensitivity of the cornea by atropine. Karl Umrath and Herbert Müsabichler (Univ. Graz, Austria). *Z. Vitamin-, Hormon- u. Fermentforsch.* 4, 182-90(1951)(in German); cf. Hellauer, *Z. vergleich. Physiol.* 32, 383(1950). Atropine blocks the stimuli transmitted by acetylcholine. The high sensitivity of the cornea in man and in some animals (e.g. rabbits) as a result of its high acetylcholine content is lowered to the level of the sensitivity in animals with a low corneal concn. of acetylcholine (e.g. dogs, cats). Erich Hirschberg

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

UMREYKO, D.S.

Symmetry and structure of electron absorption spectra of uranyl compounds. Zhur. prikl. spektr. 2 no.5:465-467 My '65. (MIRA 18:7)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

SOV/81-59-16-56084

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 12 (USSR)

AUTHORS: Sevchenko, A.N., Umreyko, D.S.

TITLE: Luminescence Spectra of Crystalline Uranyl Phosphate Salts

PERIODICAL: Uch. zap. Belorussk. un-t, 1958, Nr 41, pp 27-39

ABSTRACT: The luminescence spectra of the uranyl salts of the ortho- and pyrophosphoric acids at room temperature and -180°C are investigated. In the luminescence spectra of uranyl phosphates at 20°C the frequency difference between adjacent bands, which corresponds to the frequency of the full-symmetric oscillation of UO_2^{2+} in the ground state, is equal to $\sim$810 cm^{-1} which is 50 cm^{-1} less than in uranyl sulfates, uranyl nitrates, etc. The increase in the number of molecules of crystallization water leads also to the lowering of the frequency of oscillation of UO_2^{2+} (796 cm^{-1} in $2NaUO_2PO_4 \cdot 6H_2O$ as compared with 814 cm^{-1} in $2NaUO_2PO_4 \cdot 3H_2O$). The lowering of the temperature to -180°C leads to the resolution of the fine structure of the luminescence spectra caused by the combination of the electron transition with full-symmetric, anti-symmetric and defective oscillations of UO_2^{2+} and also with oscillations of the crystalline lattice,

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Luminescence Spectra of Crystalline Uranyl Phosphate Salts SOV/81-59-16-56C84

as has been shown by Sevchenko and Stepanov (Zh. eks., teor. fiz). The intensity of the luminescence and the mean duration of the excited state of the uranyl phosphate decrease with the substitution of PO_4^{3-} by $P_2O_7^{4-}$.

V. Yermolayev.

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

VOLOD'KO, L.V.; UMREYKOV, D.S.

Multipurpose double-disc phosphoroscope. Inzh.-fiz.zhur. no.8: 120-124 Ag '60. (MIRA 13:8)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina, g. Minsk.

(Luminescence)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

Umreyko, D.S.

S/170/60/003/008/014/014
B019/B054

AUTHORS: Volod'ko, L. V., Umreyko, D. S.

TITLE: A Universal Double-disk Phosphoroscope

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 8, pp. 120 - 124

TEXT: The authors report on a Becquerel phosphoroscope which was developed at the authors' laboratory and does practically not limit the dimensions of the chamber of the samples investigated. Thus, it is possible to use a thermostatic cell and to change the angle between the exciting light flux and the direction of observation within a wide range. The instrument can easily be equipped with optical standard devices (monochromator, spectrograph, etc.). The construction of the instrument is thoroughly described with the aid of Fig. 1. In a short theoretical investigation it is shown that oscillations of the intensity of the exciting radiation and changes in the number of revolutions of the motor during the experiment exert a strong influence on the intensity of luminescence which is recorded by measurements. Proceeding from

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

A Universal Double-disk Phosphoroscope

S/170/60/003/C08/014/014
B019/B054

formula (3) for the damping of luminescence after excitation is stopped, formula (5) is derived for the energy absorbed by the receiver. Further, the authors discuss the influence of the changes in observational conditions exercised on the accuracy of measurements. S. I. Vavilov (Ref. 7) is mentioned. There are 1 figure and 7 references: 4 Soviet, 2 French, and 1 German.

ASSOCIATION: Belorusskiy gosudarstvennyy universitet im. V. I. Lenina g. Minsk (Belorussian State University imeni V. I. Lenin, Minsk)

SUBMITTED: November 14, 1959

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

85232

S/048/60/024/006/025/030/XX
B013/B067

24.3500

AUTHORS: Volod'ko, L. V., Sevchenko, A. N., and Umreyko, D. S.

TITLE: The Agreement Between the Absorption and Luminescence Spectra of the Solutions of Uranyl Compounds

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 6, pp. 749-751

TEXT: At room temperature, the luminescence and absorption spectra of uranyl solutions show no mirror symmetry although V. L. Levshin (Ref. 1) observed the presence of a certain mirror symmetry in 1937. The observance of the conditions necessary for producing absorption and emission spectra with mirror symmetry offers the possibility of explaining the degree of deviation of the spectra of uranyl solutions from mirror symmetry and the reasons of this deviation . Absorption and luminescence spectra of 0.1 M uranyl sulfate solution at room temperature were calculated. The frequency of the pure electron transition was determined by comparing the luminescence spectra of the above-mentioned solution with the spectrum of crystalline uranyl sulfate at -185°C and -269°C. The frequency of pure electron

Card 1/3

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85232

The Agreement Between the Absorption and Luminescence Spectra of the Solutions of Uranyl Compounds

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B013/B067

transition in the solution is shifted by 50 cm^{-1} toward short waves, and amounts to about 20,380 cm^{-1}. The frequency of perfectly symmetrical stretching vibrations of the uranyl ion amounts to ~700 cm^{-1} in the excited electron state and to ~850 cm^{-1} in the non-excited state. Fig. 1 shows that the absorption spectrum of an aqueous uranyl sulfate solution is much more complex than the calculated absorption spectrum which is quasisymmetrical with respect to the spectrum of fluorescence. The disagreement between the experimental and the calculated absorption spectrum may be caused by the presence of several excited electron states. On the basis of studies of the Zeeman effect and of the measurements of polarization of spectral lines of a large number of crystalline uranyl salts, Dieke and Duncan (Ref. 6) divided the lines which they had studied into four series. The different behavior of these lines in a magnetic field and their different polarization prove that these groups of lines are caused by the transitions of the uranyl ion into different electron states (Fig. 2). By applying mirror symmetry, one of the electron states mentioned by Dieke and Duncan could be observed in uranyl compounds, i.e., the

Card 2/3

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85232

The Agreement Between the Absorption and Luminescence Spectra of the Solutions of Uranyl Compounds

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B013/B067

"series of fluorescence". The integral absorption of the quasisymmetrical ("fluorescence") electron state is about 10% of the total absorption of the visible region of the spectrum. Consequently, the main absorption of uranyl salt solutions in this region takes place at room temperature as a result of $\Sigma \rightarrow \Pi$ transitions. These transitions cause the formation of the "magnetic series". The present paper was read at the Eighth Conference on Luminescence (Molecular Luminescence and Luminescence Analysis) which took place in Minsk from October 19 to 24, 1959. There are 2 figures and 6 references: 4 Soviet, 1 French, and 1 US.

ASSOCIATION: Belorusskiy gos. universitet im. V. I. Lenina (Belorussian State University imeni V. I. Lenin)

Card 3/3

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

86035

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B019/B077

21.3100

AUTHORS: Volod'ko, L. V., Sevchenko, A. N., Academician of the AS BSSR, and Umreyko, D. S.

TITLE: An Interpretation of the Electron and Vibration Spectra of Uranyl Nitrates

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3, pp. 560-563

TEXT: First, the authors discuss the well-known interpretation of the 860 cm^{-1}, 940 cm^{-1}, and 210 cm^{-1} uranyl salt frequencies. According to A. N. Sevchenko and B. I. Stepanov (Ref. 4) there are also harmonics and composite frequencies of the fundamental frequencies of UO_2^{++} ions in the infrared absorption spectrum. Ya. I. Ryskin interpreted the absorption spectrum obtained from etheric and ketonic solutions of uranyl nitrate on the basis of the oscillations of the free NO_3^- ion. The frequency deviations are explained through symmetrical disturbances of the NO_3^- ion.

Card 1/3

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

86035

An Interpretation of the Electron and Vibration Spectra of Uranyl Nitrates

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B019/B077

These four natural frequencies are given: 1050 cm^{-1}, 830 cm^{-1}, 1390 cm^{-1}, and 720 cm^{-1}. A discussing of the results of other authors leads to the assumption that in the infrared absorption spectrum of uranyl nitrate there are not only vibrations of the UO_2^{++} ion but also a considerable number of vibrations which are close to the vibrations of the NO_3^- anion. The interpretation of these frequencies points to a covalent binding characteristic of the nitrate anion with the uranyl ion. Tests which the authors conducted to study the absorption dichroism and the dependence of the degree of polarisation from the frequency of the exciting light showed up the existence of four electron transitions in the examined interval from 20 to $29 \cdot 10^3$ cm^{-1}. An analysis for the cause of the missing mirror symmetry in these absorption spectra and the emission of uranyl compounds leads also to the conclusion that several excited electron states exist in the uranyl ion. There are 2 figures, 1 table, and 10 references: 5 Soviet, 1 Indian, and 1 US.

Card 2/3

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

86035

An Interpretation of the Electron and Vibration Spectra of Uranyl Nitrates

S/020/60/135/003/014/039
B019/B077

ASSOCIATION: Belorusskiy gosudarstvennyy universitet im. V. I. Lenina (Belorussian State University imeni V. I. Lenin)

SUBMITTED: July 25, 1960

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

VOLOD'KO, L.V. [Valodz'ka, L.V.]; UMREYKO, D.S. [Umreika, D.S.]

Influence of secondary processes on the intensity of luminescence of uranyl compounds. Vestsi AN BSSR Ser. fiz.-tekh. nav. no. 1:75-81 '61. (MIRA 14:4)

(Uranyl compounds—Optical properties) (Luminescence)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

S/081/61/000/021/008/094
B102/B138

AUTHORS: Valodz'ka, L. V., Umreyka, D. S.

TITLE: Influence of secondary processes on the luminescence of uranium glass

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 28, abstract 21B230 (Izv. AN BSSR. Ser. fiz.-tekhn. n., no. 1, 1961, 75 - 81)

TEXT: It has been found that the secondary luminescence of uranyl compounds can be determined experimentally at room temperature. The intensity of the secondary luminescence of uranium glass and of an aqueous solution of uranylnitrate was studied in dependence on the position of the luminescent layer (from the depth of excitation). Experimental and theoretical results are compared. [Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

SEVCHENKO, A.N. [Seuchanka, A.N.]; UMREYKO, D.S. [Umreika, D.S.]

Mirror symmetry and the nature of electron absorption spectra of uranyl compounds. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.3: 37-44 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858010006-2

SEVCHENKO, A.N. [Seuchanka, A.N.]; [illegible], D.S. [illegible], [illegible]

Mirror symmetry and the nature of the electron absorption spectra of uranyl compounds. Part 2. Vestsi AN [illegible]. Ser. fiz.-tekh. nav. no.4:45-51 '63.

(MIRA 17:[illegible])

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S/250/63/007/004/004/005

56

AUTHOR: Umreyko, D. S.

TITLE: Effect of secondary processes on the law of attenuation of the luminescence of uranyl compounds

21

PERIODICAL: Akademiya Nauk BSSR. Doklady. v. 7, no. 4, 1963, 237-239

TEXT: The present work is a continuation of an earlier investigation by the author, with the difference that here emphasis is placed on experimentally verifying the theory that if the excitation of fluorescence is performed by weakly absorbing radiation, and the observations are performed in the portion of spectrum where the absorption coefficient is low (a part of the emission spectrum is reabsorbed), the attenuation of glow should obey the power law. The investigation was carried out by means of an all-purpose two-disk phosphoroscope. The experimental results were found to be in good agreement with theory.
There are two figures.

ASSOCIATION: Belorusskiy gosudarstvennyy universitet im. V. I. Lenina (Belorussian State University imeni V. I. Lenin)

SUBMITTED: August 29, 1962

Card 1/1

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