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Firing Unguided Aircraft Rockets Against Aerial (Cont.) 86-58-3-9/37

firing of cannons or of impact-fuze rockets. In order to avoid damage to his own aircraft by rocket fragments, the pilot of a single aircraft should fire the rockets from a distance not less than 400 - 500 m from the target. For a formation this distance should be not less than 600 - 800 m. In formation flying, three methods of firing can be used: each pilot in the formation aims and determines the instant of firing individually; each pilot aims individually but the rockets are fired on a command given by the lead pilot; the rockets are fired on a command given by the lead pilot and no individual aiming is done by the wing pilots. In addition to the rockets, a fighter plane is also equipped with cannons which can be used simultaneously with the rockets. There are three methods of firing the rockets and cannons during an attack: rockets and cannons are fired simultaneously; the rockets are fired first and then the sight is switched over to "Cannons"; the cannons are fired first and then the sight is switched over to "Rockets". The advantages and disadvantages of these methods are discussed by the author in detail.

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THEFT WANTER STRATE

Firing Unguided Aircraft Rockets Against Aerial (Cont.)

Fighter combat formations remain the same regardless of whether cannons or rockets are used. A simultaneous attack on bombers by a pair of fighters at close ranges should be carried out in an echelon formation with 60 - 100 m distances between the fighters. If the same attack is carried out by a flight of fighters in Vee formation, the overall depth of the formation should not be greater than 150 - 200 m. When the radio range finders are used, the distance between the pairs of fighters, which attack one after another, should be increased so that at the instant the second pair begins to aim the first pair is out of the field of the radio range finder. The greatest errors in firing time-fuze rockets are due to inaccurate determination of range and of fuze setting. Therefore, whenever possible, radio range finders should be

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CRIGOR'YEV, Nikolay Filippovich; SHUMSKIY, P.A., doktor geogr. nauk, prof., otv. red.; ZOLOTOV, P.F., red. izd-va; VOLLOVA, V.V., tekhn. red.

> [Formation of the relief and frozen rocks in the coastal area of eastern Antarctica] Formirovanie rel'efa i merzlykh gornykh porod poberezh'ia Vostochnoi Antarktidy. Moskva, Izd-vo Akad. nauk SSSR, 1962. 147 p. (MIRA 15:2)

1. Direktor Instituta merzlotovedeniya im. V.A.Obrucheva AN SSSR (for Shumskiy). (Bunger Hills region, Antarctica-Geology)

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Abs Jour	:	Ref Zhur - Biol., No 7, 1958, 30903
Author	:	Rozhdestvenskaya G., Grigor'yev N.
Inst	:	
Title	:	The Problem of the Periods of Growth and Development of Young Horses. (K voprosu o periodakh rosta i razvitiya konskogo molod- nyaka).
Orig Pub	:	Konevodstvo, 1957, No 9, 32-36.
Abstract	:	As a result of the studies carried out at an experimental stud on the foals of the Orel Trotter bread, of the Russian Heavy-Draft breed, and of the Budennyy breed, three periods during one year of postembryonic develop- ment were distinguished. The first period (from birth to 3 months of age) is characterized by an intensive increa- se in measurements of the body, and a high protein con- tent in the blood serum. In the Orel Trotter and in the
Card 1/2		

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USSR/Farm Animals - Horses.

Q-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30903

Russian Heavy-Draft breeds, the second period lasts from 4 to 7-8 months, and in the Budennyy breed from 3 to 7 months. During this period, the intensiveness of the increase of the measurements and the body weight drops by 12-2 times, the albumin-globulin ratio decreases by 45-60%, and the nitrogen of free amino groups decreases by 31-38%, as compared with the first period. The third period in the Orel Trotter and Russian Heavy-Draft breeds lasts from 8-9 to 12 months, and in the Budennyy breed from 7 to 12 months. The sexual reflexes appear in colts, and the first rut occurs in the colts and in the fillies. Likewise, the uniformity of the increase of measurements in all directions, as well as the rise of the biochemical protein activity, are observel. The recommendations as to the organization of the feeding of foals during all three periods are appended.

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Country	: USSR	
Catogory	: Farm Animals.	
Abs. Jour	Cattle. : Ref Zhur-Biol., No 21, 1953, 96328	
Author Institut. Titlo	Grigoryev, N. G.	
	: Some Indicators of Protein Metabolism in Hei- fers.	
Orig Pub.	: Zhivotnovodstvo, 1957, No 9, 44-46	
Abstract	: The contents of general protein and of globu- lins increase in the blood of calves of the brown Latvian breed during the age period of 1 to 12 months, while the content of albumins decreases. The greatest changes of these indi- cators are noted until the calves reach the age of 5-6 months. The smallest contents of general nitrogen of filtrates, of use and of serum protein aminogroups are observed at the ages of 1, 6 and 11-12 months, the largest con-	
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网络马利

Country : USSR Category : Farm Animals. Q Cattle. : Ref Zhun-Biol., No 21, 1950, 96028 Abs. Jour Author • Institut. ; Titlo : Orig Pub. : , Abstract : tents at the ages of 4 and 2 months. Card: 2/2



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GRIGCR'YEV, N.

Grigor'yev, N. and Basistov, A. "Use of the sound-range altimeter at low Attitudes," Vestnik vozdush. flota, 1948, No. 12, p. 40-46

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

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GRIGOR'S	2	$\psi_{1/2} \mathcal{W}_{1/2}$
Subject	:	USSR/Aeronautics AID P - 414
Card 1/1	Pu	ab. 135, 10/17
Authors	:	Grigor'yev, N., Lt. Col. of the Engineers, and Sinyagin, A., Major of the Engineers
Title	:	Resolving capacity of a radiolocation station
Periodical	:	Vest. vozd. flota, 9, 52-60, S 1954
Abstract	:	The authors consider 1) the resolving capacity of a radio- location station in relation to the distance, and 2) the resolving capacity in relation to the angle of two points of location. He gives examples of the procedure for two airplanes. Some numerical data are given. Diagrams and formulae.
Institution	:	None
Submitted	:	No date
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"Practical Methods for Calulating a Magnetron'sResonator System" from <u>Annotations of Workd Completed in 1955 at the State Union Sci. Res. lust;</u> <u>Min. of Radio Engineering Ind.</u>

So: B-3,080,964

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GRIGON YEV, N. Eng. Lt. Col. and STAROSTIN, N. Maj.

"Aircraft Interception Radar Stations," from the book, Modern Military Technology, 1956, page 176.

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Subject Card 1/1		AID P - 5232 USSR/Aeronautics - education b. 135 - 18/26
Author	:	Grigor'yev, N. G., EngLt. Col.
Title	:	Collection of descriptions of best rational suggestions
Periodical	:	Vest. vozd. flota, 11, 72-73, N 1956
Abstract	:	The author gives a short revue of the "Collection of Descriptions of Best Suggestions", which was published by innovators on N unit for popularization of the work of innovators and inventors in that unit.
Institution	:	None
Submitted	:	No date
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BALASHEV, L.L., prof.; GRIGOR!YEV, N.G., kand. biol. nauk; ZHURBITSKIY, Z.I., prof.; PETERBURGSKIY, A.V., prof.; POPOV, P.V., kand. sel'khoz. nauk; RADKEVICH, P.Ye., prof.; SOKOLOV, A.V.; TURCHIN, F.V., prof.; SHKONDE, E.I., kand, sel'khoz. nauk; SHTERNBERG, M.B., kand. biol. nauk; VOL'FKOVICH, S.I., akademik, red.; KORNEYEV, N.Ye., kand. veter. nauk, red.; NAYDIN, P.G., prof., red.; PLESHKOV, B.P., kand. sel*khoz. nauk, red.; POPOV, I.S., akademik, red.; ROMASHKEVICH, I.F., kand. sel*khoz. nauk, red.; RODE, A.A., prof., red.; ROZOV, N.N., prof., red FATHY M.R. Vt dnah. reactive and the contract of the second s [Chemicalization of agriculture; scientific and technical dictionary handbook] Khimizatsiia sel'skogo khoziaistva; nauchno-tekhnicheskii slovar'-spravochnik. Moskva, Nauka, 1964. 398 p. (MIRA 17:10) 1. Chlen-korrespondent AN SSSR (for Sokolov). 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Popov)

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CO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

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GRIGOR'YEV, N.I., doktor meditainskikh nauk (Nolotov)
                  Surgery for late pulmonary hemorrhages in wounds and suppurations
                  of the lungs [with summary in English, p.156]. Vest.khir. 77 no.3:
                                                                  (MIBA 9:7)
                  30-34 Mr 156.
                        (ABSCESS
                           lunge, causing hemorrh., surg.)
                        (INNOS, wounds and injuries
                           in wds. & suppurations, surg. causing hemorrhage, surg.)
                        (HEMORRHAGE
                           lungs, in wds. & suppurations, surg.)
                        (LUNGS, abscess
                            causing hemorrh., surg.)
                        (WOUNDS AND INJURIES
                            lungs, onusing hemorrh., surg.)
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BRYLEYEV, A.M., doktor tekhn.nauk, prof.; SHISHLYAKOV, A.V., kand.tekhn. nauk; PUGIN, D.K., kand.tekhn.nauk; YEFIMOV, G.K., inzh.; MOZHAYEV, S.S., inzh.; GRIGOR'YEV, N.I., inzh., retsenzent; KAZAKOV, A.A., kand.tekhn.nauk, retsenzent; PETUSHKOVA, I.K., inzh., fed.; USENKO, L.A., tekhn.red.

> [New systems of coded automatic block signaling] Novyc sistemy kodovoi avtoblokirovki. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soob., 1961. 135 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.219)

(Railroads-Signaling-Block system)

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MAR'IANOVSKIY, I.M.; GORBACHEV, A.G.; RYVKIN, G.M.; RYABOY, A.Ya.; KONAKOV, G.A.; GRIGOR'IEV, N.I.

> Authors' abstracts of dissertations. Vest.mashinostr. 42 no.5:89 My 162. (MIRA 15:5)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina (for Mar'yanovskiy, Gorbachev). 2. Moskovskiy stankoinstrumental'myy institut (for Ryvkin). 3. Krasnoyarskiy institut tsvetnykh metallov imeni M.I.Kalinina (for Ryaboy). 4. Khar'kovskiy politekhnicheskiy institut imeni A.A.Zhdanova (for Konakov). 5. Leningradskiy korablestroitel'nyy institut (for Grigor'yev). (Bibliography-Mechanical engineering)

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GRIGOR'YEV, N. I., Cand. Techi Sci. (diss) "Damping of Vibrations in Portal Cranes," Leningrad, 1961, 21 pp. (Leningrad Shipbuilding Inst.) 200 copies (KL Supp 12-61, 265).

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The Change of the Liver of Grass Progs in Auto- transplantation, " N. Grigor'yev, 32 pp "Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from everal hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	 USER Addicine - Transplantation Oct 1947 Nedicine - Liver The Change of the Liver of Grass Progs in Auto- transplantation," N. Grigor'yev, 32 pp "Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947. 		PA 52T48	
Medicine - Liver "The Change of the Liver of Grass Progs in Auto- transplantation," N. Grigor'yev, 32 pp "Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	Medicine - Liver "The Change of the Liver of Grass Progs in Auto- transplantation," N. Grigor'yev, 32 pp "Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.		ş ,	
Medicine - Liver "The Change of the Liver of Grass Progs in Auto- transplantation," N. Grigor'yev, 32 pp "Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	Medicine - Liver "The Change of the Liver of Grass Progs in Auto- transplantation," N. Grigor'yev, 32 pp "Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	The second state of the se		
"Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	"Dok Akad Nauk SSSR" Vol LVIII, No 1 Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	Nedicine - Liver	Oct 1947	
Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	Presents results of an experiment in which a sec- tion of liver was excised and transplanted in the abdominal lymphatic sack. At intervals of from several hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	"The Change of the Liver of Grass Fr transplantation," N. Grigor'yev, 32	ogs in Auto-	
abdominal lymphatic sack. At intervals of from everal hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	abdominal lymphatic sack. At intervals of from everal hours up to 132 days after the transplanta- tion, it was subjected to microscopic study. Sub- mitted by Academician I. I. Shmal'gausen, 20 Mar 1947.	"Dok Akad Nauk SSSR" Vol LVIII, No	1 L	
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GRIGOR'IEV, N. I. -- "The Reactivity of Ethylene in the Small Intestine, Gall Bladder, and Liver of Vertebrate Animals and Man." Min Health RSFSR. Leningrad Sanitary-Hygiene Medical Inst. Leningrad, 1955. (Dissertation for the Degree of Doctor of Biological Sciences.)

SO: Knizhnava letopis', No. 4, Moscow, 1956

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Report on activities of the editorial board of "Arkhiv anatomii, gistologii i embriologii" in 1957 and its job in 1958. Arkh. anat.gist. i embr. 35 no.3:125-126 My-Je '58 (MIRA 11:7) (ANATOMY--PERIODICALS)



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GRIGOR'YEV, N. Khx., Cand of Vet Sci -- (diss) "Pathomorphological Changes in the Intestines and Livers of Chickens During Gallium Heteracidosis and the Testing of Antihelminthic Efficacy of GertainPeperasine Salts," Moscow, 1959, 19 pp (Moscow Veterinary Academy) (KL, 5-60, 129)

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GRIGOR'YEV, N. Kh. (Candidate of Veterinary Sciences, Checheno-Ingush NIVS) "Prophylaxis of duck diseases"

Veterinariya, vol. 39, no. 4, April 1962 p. 64

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DERIPASKO, P.G.; KOVALEV, G.V., veterinarnyy vrach; GRIGOR'YEV, N.Kh. Reducing echinococcus in sheep. Veterinariia 42 nc.9:45.46 S '65. (MIRA 18:11)

 Nachal'nik veterinarnogo otdela Nauchno-issledovatel'skoy veterinarnoy stantsii Checheno-Ingushskoy ASSR (for Deripasko). 2. Veterinarnyy otdel Nauchno-issledovatel'skoy veterinarnoy stantsii Checheno-Ingushskoy ASSR (for Kovalev). 3. Zaveduyushchiy otdelom parazitologii Nauchnoissledovatel'skoy veterinarnoy stantsii Checheno-Ingushskoy ASSR (for Grigor'yev).

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PHASE I BOOK EXPLOITATION SOV/1866

Grigor'yev, Nikolay Leonidovich

Gidravlika (Hydraulics) Moscow, Izd-vo "Morskoy transport", 1958. 319 p. Errata slip inserted. 3,000 copies printed.

Ed.: M.I. Petin; Tech. Ed.: Ye.A. Tikhonova.

- FURGORS: This textbook is approved by the Department of Educational Institutions of the USSR Ministry of the Merchant Marine, and is intended for students of nautical schools. It may also be of use to students in building, road building, hydrological vtuges, etc.
- COVERACE: This textbook, third revised edition, deals with specific problems of sea-bottom dredging. Some new developments in centrifugal pumps and deepsuction pipes and apparatus are discussed in detail in the section on hydrodynamics. The sections on hydraulics and sanitary techniques were shortened. A historical outline of the development of hydraulics in the USSR is given in the Introduction. Personalities mentioned include: Professors N.A. Velikanov, G.A. Gurzhiyenko, K.K. Fedyayevskiy, Academician A.N. Kolmogorov, who investigated turbulent flow; Academician S.A. Khristianovich, unsteady flow in open chan-

Card 1/12-

Rydraulics	sov/1866
hels ; Professors V.I. Aravin, B.G. Nelson-Skornyakov, A. Chertousov, and Engineer P.A. Shankin, analysis of filtre dams. There are no references.	A. Uginchus. I.D.
TABLE OF CONTENTS:	
Preface	3
Introduction 1. Rydraulics and its industrial significance 2. Divisions of the subject, "Rydraulics" 3. Ideal fluid and its properties 4. Ensic "physical concepts 5. Physical properties of fluids 6. Actual fluids and their division. Resemblance to and ference from ideal fluids. Water	5 5 8 9 11 1 1 17
SECTION I. HYDROSTATICS Ch. I. Hydrostatic Pressure and Internal Forces in Fluids 7. Action of internal forces on an elementary surface	19
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GRIGORIYEV, N.Kh., kand. veter. nauk

Prophylaxis of duck diseases. Veterinarila 39 no.4:64-66 Ap (64). (MIRA 17:10) 1. Checheno-Ingustskaya nauchno-issledoratel'skaya veterinarnaya stantsiya.



Sarah Marin

USSR/Nucle	ر بر ar/	Physics - Cosmic Rays C-7
Abs Jour	:	Ref Zhur - Fizika, No 1, 1958, 582
Author	:	Alekseyeva, K.I., Grigor'ev, N.L.
Inst	:	Moscow State University
Title	:	Inelastic Interaction of Protons with Energies Above 7 Bev with Nuclei of Carbon and Hydrogen.
Orig Pub	:	Zh. eksperim. i teor. fiziki, 1957, 32, No 2, 404-405
Abstract	:	The authors have measured the cross section for inelastic interaction of protons from cosmic ryas, having energies 7 20 Bev (geomagnetic latitude 31° N, altitude 20 25 km) with carbon and hydrogen nuclei. To record the interactions of the protons, a system consisting of a large number of Geiger-Muller counters was used with gra- phite and paraffin absorbers. The results obtained (L _A range of protons before interaction, \mathcal{T}_{μ} corres- ponding
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GAIGOREV, N. L.

A STUDY OF THE INTERACTION OF MUCLECUS WITH ENERGY $(I = 5) \times 10^{11}$ gv with light atomic nuclei N.L. GRIGOREV, V.V. GUJEVA, N.A. DOBRCTIN, K.A. KOTELNIKOV, V.E. MURZIN, S.V. RYABIKOV, T.A. SLAVATINSKIY

L. The interaction of cosmic-ray nucleons with atomic nuclei has been investigated at 3860 m above sea level (Pamire Station of the Physics Institute, Academy of Jciences, U.S.S.R.) with the aid of an arrangement that permits of a comprehensive study of an individual act of nucear interaction. 2. The arrangement consisted of two cloud chambers with a target of a light substance (LiH in the main series of experiments) interposed between them. In thistarget the interactions under study were generated. The bottod cloud chamber was claced in a 6500-coarsted magnetic field, which enabled us to measure directly the pulses of secondary particles. Under the chambers was a special device ("ionization calorimeter") made up of 120 ionization chambers arranged in 8 trays with filters between them. This device made it possible (from the total amount of energy generated) to determine the energy of the particle that produced the interaction being studied.

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959







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. CRICCE YEV, N. N.

130-7-3/24

AUTHORS: Migutskiy, L.R. and Grigor'yev, N.N. Use of Hammer Mills for Crushing Limestone. (Primeneniye TITLE: molotkovykh drobilok dlya izmel'cheniya izvestnyaka) PERIODICAL: Metallurg, 1957, Nr 7, pp.5 - 6 (USSR) ABSTRACT: Dissatisfied with the performance of the Gipromez-designed rod mills installed at the Cherepovets works for grinding limestone for use in self-fluxing sinter production, the authors proposed that hammer mills should be used instead. For this the type CM-19A hammer mill previously used for preliminary crushing of limestone was reconstructed by the works into type CM-19A-P, giving a finer product. The article gives a general outline of the modifications and tabulations of operating and cost data for the reconstructed mill, a larger hammer mill and the rod mill. The respective productivities are 25.40 and 12 tons/hr, the energy consump-tions 4.6, 9.2 and 12.9 KWh/ton, costs 37.2, 156.3 and 165.3 thousand roubles, weights 6.5, 15.5 and 55.0 tons. From the same size-graded feed the reconstructed hammer mill gave 4.48 and 95.52% of 5-3 and -3 mm fractions, respectively, the Card 1/2in the state of the second state of the stat MULTINESS AND STRATES AND S 1.1

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AUTHOR: Solov'yeva, L. A.; Stolyarov; K. P.; Grigor'yev, N. N.	ہ بر ایک اور بڑے ایک اور	
TITLE: Determination of small gallium concentrations by the method of micro- luminescent titration 27		
SOURCE: <u>Leningrad. Universitet.</u> Vestnik. Seriya fiziki i khimii, no. 3, 1964, 134-139		
TOPIC TAGS: analytical chemistry, microluminescent titration, gallium analy- sis, microanalysis	•	•
ABSTRACT: The method of microluminescent titration described by the authors previously (see Zh. A Kh 17, 565 (1962)) is applied for the determination of sma concentrations of gallium in relatively small samples (10 to 50 milligrams). The sensitivity of this simple method is between that of the titrimetric and the photo- metric methods. $(1.0 - 10.0 \mu g \text{ in } 2 \text{ ml samples})$ The microluminescent titra- tion method was tested on artificial mixtures and on samples of ferrite, silicate	11 9 •	
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and repheline. Orig. art. has:	3 figures and 6 tables		
ASSOCIATION: None			
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	ACC NR: AP5027419 SOURCE CODE: UR/0181/65/007/011/3378/3385	
	AUTHOR: Grigor'vev. N. N.; Dykman, I. M.; Tomchuk, P. M.	
	ORG: Institute of Semiconductors, AN UkrSSR, Kiev (Institut poluprovodnikov AN UkrSSR	
	TITLE: Temperature and mobility of hot electrons in polar semiconductors SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3378-3385	
	TOPIC TAGS: semiconductor alloy, indium alloy, electron gas, electron mobility, Coulomb scattering, impurity scattering $\frac{1}{25}\sqrt{7}$	
	ABSTRACT: The function of electron distribution in alloyed polar semiconductors in electric fields of arbitrary strength has been determined with the aid of a kinetic equation. The interaction between the electrons, between the electron and the opti- cal lattice oscillations, and between the electron and impurity ions were taken into account. The dependence of the mobility μ and the electron temperature T in n-InSb on the applied field shows that T and μ change slightly with the field only in the region of very weak fields. With the growth of the applied field, the electron temperature T increases, and dT/dF increases up to some limiting field F* at which dT/dF $\rightarrow \infty$. Be- ginning with some electron concentrations n the value of F* rapidly increases with the rise of n. The competing Coulomb and lattice scattering mechanisms determine the de- pendence of μ on F. At small n, the mobility noticeably decreases with the field. At sufficiently large n in weak fields, it may even increase. The dependence of mobility	
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<pre>µ on the sharpest the Coulo is follow the elect ing mecha</pre>	dependence mb scatteri ed by a rap ron tempera	of µ on n Ing mechan oid decrea ature also n is not l	takes p ism play se of mo increas	e T ₀ , and the place in we as a very in bbility. Wises, as does the concer	ak fields mportant Lth the f s the inf	at low role, ar Increase Iuence d	T ₀ . I nd the of the of the	n this re increase field as lattice s	egion, of n nd T ₀ , scatter
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CRIGOR' E The filtum detection in ores, industrial wastes, and con-tentrates. K. F. Stolvaroy and N. N. Griporev (Surre-liniv, Lemingred), volacustayo Lab 727, 105-2706. The fil detection intihod consisted in the formation of Ki prosence, after receivable with a green light if T1° to present, after receivable with ultraviolet light $\lambda = 254-313$ ms. KGI and KBr luminesce similarly, but their lucines-ence is waker. The color of the luminescesce varies with the Ti concu., is yellow at [TI] = 1000 ybul, green at 100 γ/ml , bright thus at [TI] = 1000 ybul, green at and violet-blue at 0.1-0.01 γ/ml . Special tests show the present in sulfide ores, when Su, Zu, and Ni concus. Fer-"Hg" and Cut", and Ph" interfere because of the I deposi-tion when these ions interact with KI and the msol. iodide for when these ions interact with KI and the msol iodide of complex cyanides with Fe and Pb eliminates their inter-lecting some powed, sample upon a microscope stide, adding a drop of HCI, I drop of 0.0N KI, drying at 150-200°, and erams, the luminescence under a microscope. W. M. Struberg 1- Jum 1-1.47 St

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5(2) Authors:	Stolyarov, K. P., <u>Grigor'yev</u> , N. N. Sc7/75-14-1-14/32
TTYM::	A New Luminescence Method of Microchemical Analysis (Crystallophosphoric) (Novyy lyuminestsentnyy metod mikrokhimicheskogo analiza (kristallofosfornyy)) Communication 1. Detection of Antimony (Soobshcheniye 1. Otkrytiye sur'my)
P.M.10DICAL:	Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 1, pp 71-74 (USSR)
AJTAC ?:	A mercury-quartz lamp of the PRK-4 type was used as a source of ultraviolet rays in the authors' investigation of the micro- crystalloscopic luminescence analysis. A capillary served to record the samples (some thousandths of ml). The precipitates were separated by filtering or centrifuging. A scheme of the device employed is shown in an illustration. Also a method for the detection of antimony is worked out in the present paper. It is based on the formation of the crystal phosphor CaO.Sb. which has a yellow-green luminescence under ultraviolet irradiation. An accurate description is given of the preparation of annealed calcium oxide, on which the reaction
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A New Lumines (Crystallopho	scence Method of Microchemical Analysis 507/75-14-1-14/32 osphoric). Communication 1. Detection of Antimony irradiation. The procedure followed for the determination is accurately described. The limit of determinability is at 0.001 mantimony ions and a maximum dilution of 1 : 107. As many elements yield precipitations with potassium ferro- cyanide, the separation of antimony by extraction with diethyl ether from hydrochloric solution is recommended. The maximum amounts of Sn, Ge and Cu, which allow the detection of antimony without separation, are specified. The detection methods described are applicable for the quantitative analysis of mineral raw substances and alloys. The treatment of these substances and the detection of antimony are very accurately described. There are 1 figure and 4 tables.	
ASSOCIATION:	Leningradskiy gosudarstvennyy universited im. A. A. Zhdanova (Leningrad State University imeni A. A. Shdanov)	
SUBMITTED:	November 14, 1957	
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中非法的推动

Stolyarov, K. P., Grigor yev, A. M. Stolyarov, K. M., Grigor yev, A. M. Stolyarov, K. M. M. Stolyarov, K. M. M. Stolyarov, K. M. M. Stolyarov, K. M.<	•	
 (Crystallophosphoric) Communication of Lemma (Crystallophosphoric) Communication of Lemma (Crystallophosphoric) Communication of Lemma (Crystallophosphories) (USSR) ABSTRACT: It is easy to determine tin ions with potassium iodide on paper as a crystallized phosphorescing substance is formed (Ref 1). The solutions of the chlorides, bromides, and iodides of sodium and potassium were tested as reagents to tin. Potassium iodide which gives a bright yellow luminescence with solutions of tin which gives a bright yellow luminescence with solutions of tin salts proved to be the best reagent. This luminescence appears after drying of the reaction products and irradiation with ultra violet light. There is a difference between the luminescence of a potassium iodide crystal activated by thallium in the color and by the fact that the color is independent of the concentration of tin. The variations of the tin concentration only cause a variation in the intensity of the color. The authors investigated 	5(2) AUTHORS:	Stolyarov, K. P., Grigor Jer, 1020
(USSR) ABSTRACT: It is easy to determine tin ions with potassium iodide on paper as a crystallized phosphorescing substance is formed (Ref 1). The solutions of the chlorides, bromides, and iodides of sodium and potassium were tested as reagents to tin. Fotassium iodide which gives a bright yellow luminescence with solutions of tin salts proved to be the best reagent. This luminescence appears salts proved to be the best reagent. This luminescence appears violet light. There is a difference between the luminescence of potassium iodide activated by tin and the luminescence of a potassium iodide crystal activated by thallium in the color and by the fact that the color is independent of the concentration of tin. The variations of the tin concentration only cause a variation in the intensity of the color. The authors investigated	TITLE:	(Crystallophosphoric) Communication in Levie
as a crystallized phosphorescring scoreds, and iodides of sodium The solutions of the chlorides, bromides, and iodides of sodium and potassium were tested as reagents to tin. Fotassium iodide which gives a bright yellow luminescence with solutions of tin salts proved to be the best reagent. This luminescence appears after drying of the reaction products and irradiation with ultra if the drying of the reaction products and irradiation with ultra of the tight. There is a difference between the luminescence of potassium iodide activated by tin and the luminescence of a potassium iodide crystal activated by thallium in the color and by the fact that the color is independent of the concentration of tin. The variations of the tin concentration only cause a variation in the intensity of the color. The authors investigated	PERIODICAL:	(USSR)
	ABSTRACT:	as a crystallized phosphorescing subscience, and iodides of sodium The solutions of the chlorides, bromides, and iodides of sodium and potassium were tested as reagents to tin. Potassium iodide which gives a bright yellow luminescence with solutions of tin salts proved to be the best reagent. This luminescence appears after drying of the reaction products and irradiation with ultra after drying of the reaction products and irradiation with ultra violet light. There is a difference between the luminescence of potassium iodide activated by tin and the luminescence of a potassium iodide crystal activated by thallium in the color and by the fact that the color is independent of the concentration of tin. The variations of the tin concentration only cause a
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sov/75-14-4-22/30 New Luminescence Method of Microchemical Analysis (Crystallophosphoric) Communication 2. Detection of Tin 0.02 µg of tin at a maximum dilution of 1 : 5.10⁵. The sensitivity increases when the paper underlayer is replaced by an unglazed porcelain plate. In this case the smallest detectable quantity in a maximum dilution of 1 : 5.10⁶ is 0.0002 me. The order in which the analysis is conducted is of great influence on the sensitivity of the reaction. There is a detailed description of the developed determination method. The elements disturbing the analysis are divided into two groups (Ref 1). Elements forming similar crystallized, phosphorescing substances, and causing therefore disturbance, are Hg_2^+ , Tl^+ and partly also Ag and Cu . The elements of the second group quench the luminescence of crystallo phosphorus. They are Hg²⁺, Sb³⁺, Bi³⁺, As⁺, Ag⁺, Pb²⁺, Fe³⁺ and Cu²⁺. Zinc, cobalt, nickel, germanium, zirconium, thallium, indium, titanium, cadmium, manganese, tungsten, molybdenum and bivalent iron do not disturb the determination of tin. The determination of tin in the presence of mercury ions is possible if more potassium iodide is added. The disturbing effect of small quantities of thallium can also be eliminated Card 2/414 6 14-2 了国际主义

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SOV/75-14-4-22/30 New Luminescence Method of Microchemical Analysis (Crystallophosphoric) Communication 2. Detection of Tin by making the determination with ultraviolet rays of $\Lambda = 365$ m/4 . Large quantities of thallium are better to separate by extraction of tin. The ions of Sb³⁺, Bi³⁺, As³⁺ and Pb²⁺ form strongly adsorbing iodide precipitates. Silver iodide itself can also be luminescent but this luminescence does not occur under the conditions needed for determining tin. The maximum permissible concentration ratios for these disturbing elements in the determination of one drop of 0.001 ml volume tin (at 0.002 µg Sn²⁺ ions) are the following: Sn^{2+} : $Sb^{3+} = 1$: 100,000; Sn^{2+} : $Bi^{3+} = 1$: 100,000; Sn^{2+} : As³⁺ = 1 : 10,000 ; Sn^{2+} : Ag⁺ = 1 : 30,000 ; Sn^{2+} : Pb²⁺ = 1 : 10,000 ; Sn^{2+} : Cu²⁺ = 1 : 1,000 Card 3/4