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| CZECHO SLO | VAKIA / Chemical Technology. Chemical Pro- H-6 ducts and Their ApplicationSafety and Sanitation |
|------------|--|
| Abs Jour: | Ref Zhur-Khimiya, No 3, 1959, 8744 |
| Author : | Fiala, S. |
| Inst : | Not given |
| Title : | Determining Benzine Vapor Concentration by Use of a Glowing Platinum Wire |
| Orig Pub: | Chem. prumysl. 1958, 8, No 5, 240-242 |
| Abstract: | It was established experimentally that at a con- centration of 250 to 400 (in mg per liter) in air, benzine vapors (I) are catalytically burned by a glowing platinum wire; at 100 to 250 and a minimum |
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> Н : CZECHOSLOVAKIA COUNTRY : Chemical Technology. Chemical Products and Their Applications. Instruments and Automation CATEGORY ABS. JOUR. : RZKhim., No. 23 1959, No. 82573 : Piels, S. AUTHOR IV.32. : Measurment and Control of Feed Water pH Values TITLE ORIG. FUB. : Automatisace, 1958, No 10, 328-333 : Description of a scheme and presentation of ABSTRACT structural duta of the pH measuring and controlling device used on boiler feed water. --- Ye. Stefanovskiy 1/1CARD: STREET, STREET

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Determination of silver in water. p. 372.

VODNI HOSPOSARSTI. (Ministerstvo energetiky a vodniho hospodarstvi a Vedecka technicka spolecnost pro vodni hospodarstvi) Praha, Gzechoslovakia. No. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

Uncl.

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HEALL, S.; Knike, J.

Electrochemical disinfection of water. p. 23h. (4054. Vel. 30, no. 9, Sept. 1957, Fraha, Czechoslovskis.)

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S0: Honthly List of Cast European Accessions (MEAL) LC. Vol. (, no. 12, Dec. 1957. Uncl.

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ACC NRI AP7004575 SOURCE CODE: UR/0203/66/006/003/0597/0599 AUTHOR: Finla ORG: Physics Institute im. P. N. Lebeder, AN SSSR (Fizicheskiy institut AN SSSR) TITLE: Diffusion of nonhomogeneities in plasma in the presence of drift SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 597-599 TOPIC TAGS: inhomogeneous plasma, ionosphere, plasma diffusion ABS'IRACT: The problem of the motion and diffusion of nonhomogeneities is of considerable interest for the physics of nonhomogeneous plasma, especially for the ionosphere'. The diffusion of nonhomogeneitles in plasma has been investigated in a number of studies, while others have considered their motion (drift) in the magnetic field under the influence of an electrical field and other factors. The article cited below is of an integrating character in that the drift and diffusion are considered at the same time. The author thanks A. Y. Gurevich for directing the completion of this work and Ye. Ye. Tsediline for valuable discussions. Orig. art. has: 3 formulas. [JPRS: 38,93] SUB CODE: 20,04 / SUBM DATE: 11Aug65 / ORIG REF: 003 • . 'n Card

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NESNIDALOVA, Ruzena; FIALA, Vaclaw

On the problem of Kanner's autism in children. Cesk. psychiat. 57 no.2:76-84 '61.

 Psychiatricka klinika lekarske fakulty KU v Pizni. (BEHAVIOR MECHANISMS)

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NOVAK, I.; FIALA, Ya. [Fiala, J.]; SHUTKO, Sh. [Sutko, S.]; VLCHKOVA, M. [Vickova, M.]; SHOUREK, I. [Sourek, J.]; SEYKOROVA, I. [Sejkorova, J.]

> Some changes in the donor organism after bloodletting. Proble gemat. i perel. krovi 8 no.4\$41-46 Ap'63 (MIRA 17:2)

 Iz Instituta gematologii i perelivaniya krovi (dir. - prof. Ya. Gorzheyshi [Horejsi, J.], Praga.

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FIAL6, 2. Fiala, Z. Did you prepare your machines well for operating the threshing equipment? p. 252. Helping our combine operators in the grain harvest. p. 253. MECHANISACE ZEMEDELSTVI. Praha. Vol. 5, no. 13, July 1955. S0: Monthly List of the East European Accession, (EEAL), LC. Vol. 4, no. 10, Oct. 1955. Uncl.

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Country : CZECHOSLOV.KL. т Category: Human and Animal Physiology. Circulation. Blood Vessels Abs Jour: RZhDiol., No 19, 1958, 88870 Author : Snabl, P.; Polak, F.; Fiala, Z. Inst : . Title : A Test of Secondary Blood Filling. Orig Pub: Vnitrni lekarstvi, 1957, 3, No 11, 977-982 Abstract: No abstract. Card : 1/1

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SNABL, P.; MACHALEK, M.; FIAIA, Zd.

Localization of obliterative vascular disease in the lower extremities. Cas. lek. cesk. 98 no.26:825-830 26 June 59.

1. Vnitrni oddeleni polikliniky MUNZ Liberec, prednosta MUDr. Pavel Snabl P.S., Liberec 15, Wolkerova 15. Do redakce doslo v zari 1958. (VASCUIAR DISEASES, PERIPHERAL, diag. localization of obliterative dis. in lower extremities (Cz))

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FIALKA, J.

Standardization activities of the State Institute of Metallurgic Plant Design. p. 170.

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NORMALISACE. Praha. Vol. 3, no. 8, Aug. 1954.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

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| | | s/275/63/000/003/004/021 A052/A126 | |
|-------|---|--|-----|
| • • • | AUTHOR: | Fielka Jindrich | |
| | TITLE: | Flexible electron tube grid made of metal braid | |
| | PERIODICAL | Referativnyy zhurmal, Elektronika i yeye primeneniye, no. 3, 1963, 20 - 21, abstract JAllIP. (Czech. pat., cl. 21g, 13/08, no. 101315, October 15, 1961) | |
| | electron tub the lower pe fixed on the grid is furr in its upper tube is inse up by the fi fixed on the part of whi flange of th | Several variants of making a flexible grid for cylindrical bes from metal braid are proposed. According to the first varian art of the grid made in the form of braid stocking is rigidly e tube socket when mounted on the chassis. The upper part of the nished with an annular metal flange with special (T-shape) cuts r expanding part. When mounted in the seat of the socket the erted into the stocking from above and the whole grid is pulled lange until it covers the tube. In this position the grid is to be by means of a special-shape steel wire spring, the middle och holds the tube grom above and the ends engage the cuts in the screen. According to another variant the stocking is put from | . G |
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Flexible electron tube grid

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above on the tube already acated in the socket. The upper part of the stocking has a flange with a diamater considerably smaller than that of the tube owing to which the grid cannot slide down the tube. The lower part of the stocking has an annular flange with an internal diameter equal to the external diameter of the tube. On the external surface of this flange theme are severel symmetrically arranged protrusions. These protrusions (when the grid is put on the tube from above) engage the corresponding holes of flat springs, which are fixed in the tube socket in a vertical position at a distance of the radius of the tube bulb from the center of the socket. The number of springs and their arrangement in the socket correspond to number and arrangement of protrusions on the lower flange of the grid. Since according to the first variant the lower part of the grid and, according to the second variant, the vertical flat springs have a direct contact with the chassis, the grounding and at the same time partial heat transfer from tube to chassis are securad. The proposed screen, mounted tightly on the surface of the tube heated during the operation, secures a good heat transfer and consequently contributes to the longer service life of the Card 2/3

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| | Artificial lighting of class rooms and its research. Elektrotechnik 17 no.9:257-260 S 162. |
| | 1. Tesla - Holesovice, Fraha. |
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ZVORYKIN, Boris Sergeyevich; FIALKINA, G.A., red.; KOPTEKOVA, L.A., red.; TARASOVA, V.V., tekhn.red.

[Practical manual for electrical work in secondary schools; practices of School No.315 in Moscow] Praktikum po elektrotekhnike v srednei shkole; iz opyta raboty shkoly No.315 Moskvy. Moskva. Izd-vo Akad. pedagog. nauk RSFSR, 1957. 126 p. (MIRA 10:12) (Electric engineering)

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SHCHUKIN, Sergey Vasil'yevich; FIALKINA, G.A., red.; NOVOSELOVA, V.V., tekhn. red.

> [Fundamentals of student experimental work with forage plants and agricultural animals] Osnovy opytnicheskoi raboty shkol'nikov s kormovymi kul'turami i sel'skokhoziaistvonnymi zhivotnymi. Moskva, Izd-vo APN RSFSR, 1963. 166 p. (MIRA 17:2)









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 Finik, C., too, E.
 TLAKO, G.H.
 "Uynamics of Regulating t e Concentration of Suffer Gas at Sulfuric Acid Plants where an Electric Gas-Analyzes is included in the Circuit."
 Sone of computation carried our at Ural Sxi. Nes. Chem. Institute in 1944 /UUIKhINJ of the Ministery of Chemical Industries /HKhDJof w on the aurnor is affiliated [Note in 1/35 UNIGhIN] was munder Ural Denov Khim of Glav Khin Pron NKHD
 Automat i Telemekh 1X, 6, 1948.

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FIALKO, G. M.

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Fialko, G. M. "The automatic regualtion of the concentration of sulfur gases at sulfuric-acid plants", (Report), Soobshch. o nauch. rabotakh chlenov Vsesoyuz. khim. o-va im. Mendeleyeva, 1949, Issue 1, p. 21-22.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

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FIALKO, G. M. G.M. Fialbo and L.A. Kostromitin. A laboratory device to measure the concentration of sulfuric acid and oleum. P. 1268 Ural Scient. Res. Inst. of Chemistry SO: Factory Laboratory, No. 10, 1950 医无足 网络花花 新 建國建 **记**出的



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| USSR/Proce | 66 6 | s and Equipment for Chemical Industries - K-2 Control and Measuring Devices. Automatic Regulation. |
|---------------|-------------|--|
| Abs Jour | : | Ref Zhur - Khimiya, No 2, 1957, 7003 |
| Author | : | Apakhov, A.I., Baleyev, A.V., Perevezentsev, I.G., Fialko G.M. |
| Inst Title | : | Automatic Regulation of Preparation of Nitrogen Oxides for Absorption in the Production of Sulfuric Acid by the Tower Process. |
| Orig Pub | : | Khim. prom-st', 1955, No 8, 475-477 |
| Abstract | : | It is pointed out that automatic regulation of prepara- tion of nitrogen oxides for absorption can be effected on the basis of NO_2 content of the gas after the last absorption tower. The NO_2 content is controlled by a photoelectric gas analyzer of continuous operation. In so doing the NO_2 content in the gas is set at such a concentration that only minimum losses of N_2 oxides with |
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| AUTHOR: | Fialko, G. M., Candidate of Technical 30V/64-58-4-12/20 Sciences |
| TITLE: | The Automatic Stabilization of the Concentration of Sulfur Dioxide in Pyrite Dust Ovens (Avtomaticheskaya stabilizatsiya kontsentratsii sernistogo gaza v pechakh pylevidnogo obzhiga kolchedana) |
| PERIODICAL: | Khimicheskaya promyshlennost', 1958, Mr 4, pp. 244-246 (USSR) |
| ABSTRACT: | The variability of the concentration of sulfur dioxide in the production of sulfuric acid leads to an increase in the consumption of nitric acid or to a decrease of the intensity of contact and of absorption, respectively. The main cause for this change is the non-uniformity of the pyrite addition, this latter again being caused by the constant change in the humidity of the pyrite. It was observed that the heat of the waste gases in the burning of pyrite (with the same air supply) is a function of the amount of burned sulfur and thus of the concentration of |
| Card 1/3 | amount of burned sulfur and thus of the UNIkhim collaborating sulfur dioxide. Based on this fact the UNIkhim collaborating |
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The Automatic Stabilization of the Concentration of SOV/64-58-4-12/20 Sulfur Dioxide in Pyrite-Dust Ovens with D. I. Mil'man, V. Z. Mel'nikov and V. M. Bronnikov,

with D. 1. Millimun, V. 2. met miket did the principle that in the case of a drop of temperature of the principle that in the case of a drop of temperature of the waste gases the pyrite addition is automatically increased, and vice versa. A chromium-aluminum thermocouple is used as measuring element of the regulator; this thermocouple is located in the waste gas channel. A diagram of the arrangement is enclosed as well as the corresponding figures. The automatic regulator was adjusted to a normal temperature of the waste gases of 930° (corresponding to 12% SO₂), the zone of insensibility was $\pm 1^\circ$ at an isodrome

of 2 minutes. The simple character of the apparatus, the safety of the regulator effect, as well as the possibility of a mass production are mentioned as recommendation for a wider use in industry. There are 6 figures, 2 tables, and 4 references which are Soviet.

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut (Ural Scientific Research Institute of Chemistry)

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| | Translation | from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 253 (USSR) |
| | AUTHORS: | Fialko, G.M., Bronnikov, V.M. |
| | TITLE: | A Concentration Meter for Sulfuric Acid and Oleum With an Equilibrium Bridge of KSO-3 Type |
| | PERIODICAL: | Tr. Ural'skogo ni. khim. in-ta, 1958, Nr 7, pp 261-265 |
| | ABSTRACT : | The concentration meter consists of 3 parts: the transducer - boing a cast iron (for acid) or iron (for oleum) flow-through case with a socket inserted in it, the lower side of which is open, and in the bottom of which 2 platinized (measuring) electrodes and a sealed comparison cell are fastened; the a-c electron bridge (EMD-12 or EMD-232) in which the input bridge circuit is modified; and the duplicating indicating milli-voltmeter. The total error of the concentration meter on the margins of the scale does not exceed: for drying acid $\pm 0.3\%$ H ₂ SO ₄ ; monohydrate $\pm 0.2\%$ H ₂ SO ₄ ; oleum $\pm 0.6\%$ SO ₃ free. |
| | | 1 0.2% H2S04; Sleum 1 0.5% SS3 free. N. Surkov. |
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Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 16, p. 167, # 34696

和这些出来的目的的和某些可以在这些情况和情况,就是我们的问题是我的自己的问题,我们从这些是我的人,也不是不少。

AUTHOR: Fialko. G M

TITLE: Automatic Control of the Oxidation Space in Sulfuric Acid Tower Systems by the Ratio of Nitric Oxides at the Exhaust

PERIODICAL: Tr. Ural'skogo n.-i. khim. in-ta, 1958, No. 7, pp. 279-289

TEXT: Calculations and a description of a regulator of the ratio of nitric oxides are given. The regulator was tested at a superphosphate plant in 1955. The regulator consists of a photocolorimetric $A\Phi K-2$ (AFK-2) nitric oxide pickup, a measuring device, an electronic control millivoltmeter, an electrothermal isodrome and a servomechanism. The latter rotates the baffle plates of the oxidation space and of the tower, changing thus the amount of gas passing through the oxidation space of the system. A considerable acceleration of the nitric oxide oxidation in the pickup of the regulator is achieved by an addition of oxygen to the exhaust gas entering the pickup. There are 8 illustrations and 6 references. N. M. F.

Translator's note: This is the full translation of the original Russian abstract, Card 1/1

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S/103/60/021/006/024/027/XX B019/B063

AUTHOR: Fialko, G. M. (Sverdlovsk)

TITLE: Use of Electrothermal Isodromic Systems for the Coupled Control of Manufacturing Processes

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 6, pp. 812-820

TEXT: The present paper deals with methods of autonomous isodromic control of complicated technological processes with electrothermal devices which require no complication of the measuring instruments of the controller. The design of the circuits of the electrothermal devices is similar to that of electrothermal isodromic systems. Fig. 1 shows the block diagram of a control system for the control of three parameters of an object. 1) denotes the control object, 2) the measuring instruments, 3) the amplifiers, 4) the isodromes, 5) the final control elements, and 6) the cross-coupling devices. The cross-coupling elements are calculated by matrix calculus. An experimental verification of the mode of crosscoupling suggested by the author with the help of a simulator indicated

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| FIALKO, <u>Grigoriy Mironovich</u> ; SUKHANOV, Ye.L., kand. tekhn. nauk, retsen- zent; DUGINA, N.A., tekhn. red. [Automation of equipment for the manufacture of sulfuric acid] Avtomatizatsiia oborudovaniia dlia proizvodstva sernoi kisloty. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. (Sulfuric acid) (Automation) | |
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FIALKO, M.N.; DINTSES, A.I.
Study of inorganic salts with the purpose of using them as high-temperature lubricants. Khim. i tekh. topl. i masel 8 no.10:22-26 0 '63. (MIRA 16:11)
1. Vsesoyuanyy nauchno-issledovatel 'skiy institut po pererabotka nefti i gazov i polucheniyu iskusstvennogo shidkogo topliva.

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| ACCESSION NIL: AP4017574 | s/0065/64/000/003/0054/0058 |
| AUTHOR: Fielko, M. M.; Dintses, A. I. TTTTE: Molten metals as high temperatu | re lubricating materials |
| SOURCE: Khimiya i tekhnol. topliv i ma | sel, no. 3, 1964, 54-58 |
| corrosiveness, oxidation, stainless ste steel, R9K1() stainless steel, TsKB-1082 alloy, Inccuel, Monel metal 4 ARSTRACT: The feasibility of using mol vestigating the oxidation of Bi, Gd, Sm and Bi-Pb-Sn and their corrosiveness to ST347 and R(K10 and nickel alloys [sKB- (Monel metal. type), All the molten met | allium. Head, bismuth, cadmium, tin, zinc, |
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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010008-4 THE PROPERTY OF THE PROPERTY O ACC NRI AP7002728(A,N) SOURCE CODE: UR/0065/67/000/001/0045/0048 AUTHOR: Fialko, M. M.; Nikonorov, Ye. M. ORG: VNII NP TITLE: Effect of additives on thermal-oxidative stability of dibutylphenylphosphate SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1967, 45-48 TOPIC TAGS: antioxidant additive, corrosion inhibitor, corrosion, amine, alkylphenol, hydraulic fluid, dibutylphenyl phosphate, phenyl compound, phosphate, thermal oxidation, aircraft engine ABSTRACT: The effect of certain antioxidant and other additives on the thermaloxidative stability and corrosiveness of dibutyl phenyl phosphate had been investigated with regard to the latter's use as a base for fireproof aircraft hydraulic fluid. The sample investigated contained about 15% tributylphosphate; the acid number of the liquid was 0.1. Aromatic amines and alkylphenoles were used as oxidation inhibitors. The former reduced the acidity of dibutylphenyl phosphate four to five times. In the presence of copper, however, the inhibitive properties of these antioxidants were completely reversed and the corrosiveness Card 1/2UDC: 665.521.5:546.185

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FIALKO, V.A. (Sverdlovsk)

Continuity in the work of a first aid station and district physicians. Zdrav. Ros. Feder. 7 no.8: 35-39 Ag 63. (SVERDLOVSK - FIRST AID IN ILLNESS AND INJURY) (MIRA 16;10)

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ROGOVSKAYA, N.V.; FIALKO, Ye.G.

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Hydrogeological basis for land improvement work in the Kura-Aras Lowland. Sov. geol. 7 no.11:121-123 N '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

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| | 112-1-1844 | |
| Translation | from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 275 (USSR) | |
| AUTHOR: | Fialko, Ye.I. | |
| TITLE: | Problem of the Amplitude and Frequency Response Character- istic of a Resonance Amplifier (K voprosu ob amplitudno- chastotnoy kharakteristike rezonansnogo usilitelya) | - |
| PERIODICAL: | Izv. Tomskogo politekhn. in-ta, 1956, 82, pp. 134-145 | |
| ABSTRACT: Card 1/2 | In order to explain the influence of asymmetry of the circuit resonance characteristic on the properties of a multistage amplifier, the following problems were investi- gated: 1) resonance characteristic of the oscillatory circuit for a one-and a multistage amplifier; 2) depend- ence of the degree of asymmetry of the amplifier pass-band from the number of stages; 3) limiting shape of the amplitude-and-frequency response characteristic of a multistage amplifier with a large number of stages. An experimental amplitude-and-frequency response character- istic was taken down from a wideband cascade of a resonance | |
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| , AUTHOR: | Fialko, Ye. I. |
| TITLE: | The distribution of meteor radio echoes according to their duration. (K voprosu o raspredelenii meteornykh radioekho po dlitel'nosti). |
| PERIODICAL: | "Astronomicheskiy Zhurnal", (Journal of Astronomy), 1957, Vol.34, No.2, pp.241-6 (USSR). |
| ABSTRACT : | Following the work of Kaiser (1, 2) and Greenhow (3), it is shown that in the first approximation $N = N_{E} \frac{\tau_{min}}{\tau}$ |
| | where N is the number of meteors giving reflections of duration $\tau > \tau_{min}$, and N _S the total number of |
| | observed meteor echoes. In deriving this expression it was assumed that τ is proportional to the mass of the meteoric body (before vaporisation) and the differential law of distribution of meteoric bodies according to mass is given by |
| | $P_{m}(m) = bm^{-S}$ |
| | where b and S are constants. Table I gives the meteor reflections with $\tau \ge 0.5$ sec. as observed by the author. Column headings in this table are as follows:- Plate number, Number of meteors, |
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The distribution of meteoric bodies according to mass. (Cont.)
where N is the mean number of meteors recorded by the radio-
locator per hour, P the peak power radiated by the trans-
mitter, λ the wavelength, ε the threshold power. Indices
1 and 2 refer to the two radio-location stations. If only one
radio-locator is available (with two receivers having different
sensitivities):

$$\frac{N_1}{N_2} = \left\{ \frac{\varepsilon_2}{\varepsilon_1} \right\}^{(S-1)/2}$$
and hence:

$$S = 1 + 2 \frac{1g \frac{N_1}{N_2}}{\frac{\varepsilon_2}{\varepsilon_1}}$$
In formulae (2) to (4) N₁ (and correspondingly N₂) is the
card 2/6 number of meteors which can give reflections exceeding the
threshold signal.

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33-3-13/32 The distribution of meteoric bodies according to mass. (Cont.)

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K. Bullough has shown that:

 $N' = \zeta N$

N is the mean number of meteorites (per hour) which can where give an amplitude echo, N' - the number of meteorites actually discovered per hour, and Z and P are given by:

 $\zeta = P^{1-S} + \frac{1}{\ln P(s-1)} \left[1 - P^{1-S} \left\{ 1 + (S-1) \ln P \right\} \right];$

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$$P = e^{T_{1}/T_{8}},$$
$$T_{s} = \frac{\lambda^{2}}{16 N^{2} D}$$

where T_i is the length of transmitted impulses, T_s is the duration of reflection and D is the coefficient of diffusion Card 3/6 at a height at which the reflecting part of the meteor is situated. In the first approximation $\,\,{\boldsymbol{\zeta}}\,$ does not depend on the

SANG CARBERARDARD AND A 1995

33-3-13/32[•] The distribution of meteoric bodies according to mass. (Cont.) magnitude of the threshold signal, i.e:

and

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$$s \approx 1 + 2 \frac{\lg \frac{N'1}{N'2}}{\lg \frac{\varepsilon_2}{\varepsilon_1}}$$

 $\frac{N_1}{N_2} \approx \frac{N'_1}{N'_2}$

In order to establish the law of distribution of masses of meteoric bodies it is necessary to establish in which region of masses does the above equation for S apply. It is shown that the minimum mass is given by:

 $m_{\min} = \left[\frac{\varepsilon}{P_{1}G^{2}\lambda^{3}} \frac{1}{\beta_{\max}^{2}} - \frac{1}{\eta_{\max}^{2}} \left(\frac{R^{3}H^{2}}{S^{4}(\boldsymbol{\theta})\cos^{2}\boldsymbol{\chi}}\right) \frac{16\pi^{2}\mu^{2}}{r^{2}}\right]^{1/2}$

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 $\sin \chi$ H = H (h),

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The distribution of meteoric bodies according to mass. (Cont.) where h is the height of the normally reflecting part of the meteoric trace. The coefficient β which characterises the probability of ionisation, depends on the velocity of meteors: 6 ~ vⁿ n is not yet accurately known. Thus the minimum mass of observable meteors is determined from the locator parameters [$\lambda, \varepsilon, P_i, G, S, (\Theta)$] and meteor parameters (v, μ) . Thus, in the case of small masses, it is necessary to use a comparatively large λ , a very directional antenna, and a high power transmitter. There are 1 figure and 9 references, 1 of which is Slavic. Tomsk Polytechnical Institute imeni S.M. Kirova ASSOCIATION: (Tomskiy Politekhnicheskiy Institut imeni S.M. Kirova) SUBMITTED: December 1, 1956 AVAILABLE : Library of Congress Card 6/6

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| | sov/58-59-8-18734 | |
| Translated fi | rom: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 244 (USSR) | |
| AUTHORS: | Fialko, Ye.I., Peregudov, F.I., Nemirova, E.K. | |
| TITLE: | Preliminary Results of Radar Observations of Meteors at λ -10 Meters | |
| PERIODICAL: | Byul. Komis. po kometam i meteoram Astron. Soveta AN SSSR, 1958, Nr 2, pp 39-43 | |
| ABSTRACT: | The article describes the results of radar observations of meteors, carried out in September 1956 with the aid of a meteor radiolocator of the "TPI-1" type. The apparatus had the following parameters: wave-length 10 m; pulse power of the transmitter ~ 100 kw; pulse duration 5μ sec; frequency of pulse repetition 300 and 600 pps; sensitivity of the receiver $\sim 10^{-13}$ - 10^{-14} w; transmitting and receiving antennas were horizontal half-wave oscillators, situated at a height of $\lambda/3$ above the ground. The article provides graphs of the daily measurement of meteoric activity, of distributions according to distance and duration and of the relation between the hourly number of meteors and the power of the transmitter. V.A. Naslednik | |
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and have been and the second state of the second 3(1) AUTHOR: SOV/33-35-6-7/18 Fialko, Ye.I. The Mean Characteristic Height of Meteors Detected by Radio TITLE: Observations PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 6, pp 881 - 887 (USSR) ABSTRACT: The mean characteristic height of detected meteors depends on the parameters of the radio-echo apparatus; the dependence is slight, e.g. : An increase of the sensitivity of the apparatus which enlarges the number of the fixable meteors by 1-2 orders, alters the mean characteristic height by 5 - 10 km only. A variation of the "sounding height" of the atmosphere is mainly attained by observations of meteors of different velocity. In order to detect higher atmospheric layers, one has to apply quick meteors, an efficient transmitter and highly sensitive receiver. For lower layers of the meteor zone weak apparata and slow meteors are sufficient. The author thanks Professor V.V. Fedynskiy and B.Yu. Levin for revising the manuscript. Tomak Polyteck Inst. im S. M. Knov

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| the second | 307/35-59-11-9000 |
| Translation (USSR) | from: Beferativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 48 |
| AUTHOR: | Flalkc, Ye.I. |
| TITLE: | The Dependence of the Average Hourly Number of Detected Meteory on the Mayelength of the Hadio-Location Station |
| PERIODICAL: | Izv. Tonskogo politekhn. in-ta, 1958, Vol 86, pp 22 - 26 |
| ABOTRACT: | The question is examined of the dependence of the average hourly number of meteors on the wavelength of the radio-location station. It is established that 1) In the case of the unvarying power of the threshold signal, the average hourly number of detected weteors is proportional to $\lambda 3(2-1)/2 $ where S is the constant which characterizes the law of distribution of meteor masses. 2) In calculating the dependence of the threshold signal on the wavelength, the average hourly number of the potentially detected meteors is proportional to $\frac{\lambda (3-e) (s-1)}{2}$ |
| Card 1/2 | where 1 is a certain constant (2 $<$ 1 $<$ 3). 3) The average hourly number \bigvee |
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| The Dependence of the Average Hourly Number of Det the Radio-Location Station | leated Moteors on the Wovelength of |
| of detected meteors depends on the ratio of the duthe period of sending the signals, and at a very function $N \sim \Lambda^{-2}$, 1 is valid. Fibi. 3 | low frequency of pulse repetition for spore |
| | V.A. Mewladnik |
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| Translation ((USSR) | from: Referativnyy zhurnal, Astronomiya i deodoziya, 1959, Nr 11, p 48 |
| AUTHOR: | <u>Fialko, Ye.I.</u> |
| OIDLE: | on the incluence of Certain Perseters of the Relie-Lenster of the Avorage Hourly Rusber of Detected Metaoos |
| FERIODICAL | Izv. Tomskogo politektu. in-na, 1958, Vol So, pp 27 - h) |
| ABSTRACE: | It is shown that the hourly numbers of detected meteors depend on the shape of the envelope of the emitted pulse and the form of the remembra characteristics of the receiver. A simple method is given for comparing different types of resonant characteristics of receiving devices and forms of envelopes of the generated pulses, from the point of view of the number of detected meteors. It is shown that the variety of the pulses shape and resonance characteristics have practically do effect on the number of meteors being detected. In the case of an optimum pulsion between the duration of the pulse and the pass tond, a better result is obtained from the system with the bell-shaped pulses and the resonance connecteristic of the receiver |
| Card 1/2 | with the bell-shaped gelage and the selectation contracted at a select of a second secon |

CIA-RDP86-00513R000413010008-4 "APPROVED FOR RELEASE: 06/13/2000 . N. BRIDDA BUR MERSAMBURGARAMBURGARA I LERUPAKI BATUPATAN M 1912 - John State Park On the Influence of Certain Parameters of the Rudlo-Arcetor on the Average dualy Number of Detected Metcore It is deducted, that in the case when special requirements are not you fouth for the meteor radio-locator (no exact deterring tion of second table and started to it expedient to use use gyntem with the rannest emplifing and belienness to be. mill, 9 titles. the second Card 2/2 .

sov/35-59-8-6350

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 8, p 36

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| AUTHORS: | Fialko, Ye.I., Isamutdinov, Sh. |
|-------------|---|
| TITLE: | On Comprehensive Radar Observations of Meteors |
| PERIODICAL: | Astron. tsirkulyar, 1958, July 3, Nr 193, pp 28 - 29 |
| ABSTRACT | On August 12, 1957, 10 ^h to 13 ^h of local time, an increase in the number, almost twice, of radar reflections from the meteoric trails in comparison with the sporadic background was recorded in Tomsk at a wavelength of 10 m. Almost simultaneous- ly, an increase of the average hourly number was recorded in Stalinabad at a wavelength of 4 m. Analyzing the possible ex- |
| Card 1/2 | planations of this phenomenon, the author the lobes of the that it was caused by the passage through the lobes of the |
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|) Trai | SOV/35-59-8-6351 nslation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, 8, p 36 |
| AUT | HOR: Fialko, Ye.I. |
| TIT | LE: Some Results of Investigation of Meteor Body Mass Distribution |
| PER | IODICAL: Astron. tsirkulyar, 1958, September 18, Nr 195, pp 22 - 23 |
| ABS | TRACT: Radar observations of meteors at $\lambda = 10$ m were carried out in Tomsk from August 1957 to May 1958, and 174,380 meteors were recorded. The index 3, characterizing the mass distribution of meteor bodies, was calculated from the distribution of meteor radio echoes (of the stable type) over durations (within the range $1 \ll \tau \ll 10$). $S \approx 1 + \frac{4}{3} \left(\lg \frac{N_1}{N_2} : \lg \frac{\tau_1}{\tau_2} \right)$, |
| Car | where N ₁ and N ₂ are the numbers of reflections with durations $\tau_1 = \tau_1^2$ and τ_2^2 . The S value varied within the limits from |
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FIALKD, Te.I.
Statistical characteristics of radio echoes from meteor
trails. Blul.Kom.po komet.i meteor. AV SSSR no.419-17
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1. Tomskiy politekhnicheskiy institut.
(NHA 13:4)
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|--|---|--|--|-----|
| AUTHOR: Fialko, Ye. I. TITLE: The Problem of the Diurnal Variation of the Average Hourly Number of the Meteors of a Stream Which are Detected by Radar PERIODICAL: "Byul. In-ta astrofiz. AN TadzhSSR", 1959, No. 27, pp. 25-30 TEXT: Formulae were derived for the determination of the quantity of meteors of a particular stream, which were recorded by radar, dependently on the diurnal motion of the radiant, the direction of the antenna, and parameter s, which characterizes the distribution of meteor bodies in stream according to their region of the characteristical altitude h _m , and that one can neglect the curvature of the Earth, the author obtains: $N \sim G^{S-1} \cos^{S-1}$ (1) where G is the directivity coefficient of the direction of the directivity of the | 3,9000 (| 1041, 1109, 1155) from: Referativnyy zhurnal Goodfatt | 1005/1001 | |
| The Problem of the Diurnal Variation of the Average Hourly Number of the Meteors of a Stream Which are Detected by Radar PERIODICAL: "Byul. In-ta astrofiz. AN TadzhSSR", 1959, No. 27, pp. 25-30 TEXT: Formulae were derived for the determination of the quantity of meteors of a particular stream, which were recorded by radar, dependently on the diurnal motion of the radiant, the direction of the antenna, and parameter s, which characterizes the distribution of meteor bodies in stream according to their region of the characteristical altitude h _m , and that one can neglect the curvature of the Earth, the author obtains: $N \sim G^{S-1} \cos^{S-1}$ (1) | AUTHOR: | Fialko, Ye. I. | a, 1961, No. 2, p. 10, # 2044 | |
| PERIODICAL: "Byul. In-ta astrofiz. AN TadzhSSR", 1959, No. 27, pp. 25-30 TEXT: Formulae were derived for the determination of the quantity of meteors of a particular stream, which were recorded by radar, dependently on the diurnal motion of the radiant, the direction of the antenna, and parameter s, which characterizes the distribution of meteor bodies in stream according to their masses. Assuming that the points of reflection from the meteor trails lie in the region of the characteristical altitude h_m , and that one can neglect the curvature of the Earth, the author obtains: $N \sim G^{S-1} \cos^{S-1} \left(\sin \chi \right)^{-0.5} (7-38)$ (1) | TITLE: | The Problem of the Diurnal Variation the Meteors of a Stream Which are Det | of the Average Hourly Number of tected by Radar | |
| meteors of a particular stream, which were recorded by radar, dependently of diurnal motion of the radiant, the direction of the antenna, and parameter s, which characterizes the distribution of meteor bodies in stream according to their masses. Assuming that the points of reflection from the meteor trails lie in the region of the characteristical altitude h_m , and that one can neglect the curvature of the Earth, the author obtains: $N \sim G^{S-1} \cos^{S-1} \left(\sin \chi \right)^{-0.5} (7-3S)$ (1) | | "Byul. In-ta astrofiz. AN TadzhSSR", | 1959, No. 27, pp. 25-30 | |
| where G is the directivity coefficiency $\chi [\sin \chi]^{-0.5} (7-38)$ (1) | meteors of a diurnal moti which charac masses. Ass region of th | ton of the radiant, the direction of the eterizes the distribution of meteor bod suming that the points of reflection fr the characteristical altitude $h_{\rm m}$, and the the author obtains: | a by radar, dependently on the e antenna, and parameter s, ies in stream according to their om the meteor trails lie in the at one can neglect the curvature | |
| y is the zenith distance of the rediant with the in the radioecho plane: | | $V \Gamma_{4} = -17 = 0.5 (7 = 30)$ | (+) | |
| χ is the zenith distance of the radiant. With allowance for the curvature of Card 1/2 | where G is t | he directivity coefficient of the anter | | . 1 |

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| Translation f p. 48, # 1A35 | | Astronomiya i Geodeziya, 1961, No. 1, |
| AUTHOR: | Fialko, Ye.I. | |
| TITLE: | On the Relation Between the Meteor Velocity | Intensity of Meteoric Ionization and |
| PERIODICAL: | "Tr. Sibirsk, fiztekhn, in pp. 219 - 228 | n-ta pri Tomskom un-te", 1959, No. 37, |
| assumes that power of mete the locator o parameters A | n the intensity of meteoric io linear electronic density in t or velocity V on the one hand, n the other hand, i.e., $\alpha = Av$ and x by determining electroni g the main and the auxiliary m | i of experimental observation of the re- onization and meteor velocity. The author the trail \heartsuit is proportional to a certain and to the duration of radio echo $\widetilde{\ell}$ on $X^{-1} \widetilde{\ell}$; he proposes to calculate unknown is concentrations at two points of the meteor radio locators. There are 14 V. Naslednik ation of the original Russian abstract. |

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88932 \$/035/61/000/001/008/019 6.4700 A001/A001 Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1961, No. 1, p. 48, # 1A353 Fialko, Ye.I. AUTHOR: TITLE: On the Influence of Wavelength on the Effuctiveness of Radio Locational Method of Studying Meteors PERIODICAL: "Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te", 1959, No. 37, pp. 229 - 246 TEXT: The author investigated the effect of wavelength and pulse frequency of a radio locator on the number of detected meteors. He proves the existence of an optimum wavelength with which, at a given frequency of pulse repetition, the maximum number of meteors is detected. He points out that it is expedient to employ the band λ = 8 - 10 m in the case of systems with a low effectiveness (T_min \simeq \simeq 0.1 sec). Recommendations are given for selecting some parameters of radio location stations for meteor studies. There are 26 references. V. Naslednik Translator's note: This is the full translation of the original Russian abstract. Card 1/1

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AUTHOR: Fialko, Ye.I. SOV/109-4-7-20/25 TITLE: The Probability of Meteoric Ionisation PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 7. pp 1206 - 1208 (USSR) ABSTRACT: The investigation of the dependence of the probability of ionisation $\beta(v)$ on the velocity of a meteoric object is of particular interest. The probability is usually expressed in the form $\beta(v) = av$ where a and v are constants (T.R. Kaiser - Ref 1). Another parameter of importance is the power or the amplitude of the echosignals received from the meteors. These parameters were investigated analytically and the results are shown in four figures. Figure 1 illustrates the change of the amplitude of the echo as a function of the velocity of the meteors for the wavelength of $\lambda = 8$ m for five values of n (n = 0; 0,5; 1; 1.5; 2). Figure 1 shows that for each value of n (except for $n \checkmark 0.5$) there exists an optimum velocity for which the signal amplitude is a maximum. The dependence of the optimum velocity on n is illustrated in Figure 2. Figure 3 gives a curve Card1/2

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| SOV/109-4-7-20/25 The Probability of Meteoric Ionisation representing the selectivity of radar observation meteors, as compared with the visual observation represents the number of meteors registered by while N _B is the number of meteors registered by while N _B is the number of meteors registered observation. Figure 4 shows, that the largest of meteors (other conditions being equal) will be at the velocity of 55 km/sec; the value of n velocity is 1.5. There are 4 figures and 12 references, of which English and 2 Soviet. ASSOCIATION: Tomskiy politekhnicheskiy institut im. S.M (Tomsk Polytechnical Institute imeni S.M. Kirov SUBMITTED: February 16, 1959 Card 2/2 | ons; N p a radar, by visual number of registered at this 10 are |
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THE CHARTER FRANCE NAME AND ADDRESS OF SOV/109-4-7-21/25 Fialko, Ye.I. **AUTHOR:** A Method of Estimating the Diffusion Coefficient in the TITLE: Meteor Zone PERIODICAL: Radiotokhnika i elektronika, 1959, Vol 4, Nr 7, pp 1208 - 1210 (USSR) ABSTRACT: The measurement of the diffusion coefficient D on the basis of the duration of a meteoric trace was proposed by J.S. Greenhow and E.L. Nenfeld (Ref 1). The measurement requires a fairly complicated equipment. It appears, however, that D can be determined in a simpler manner. The coefficient S, which characterises the mass distri-bution'of meteoric objects can be found from the differential distribution of the durations of echoes of the unstable type. The coefficient is expressed by Eq (2), where λ is the wavelength of the measuring radar and N₁ is the number of reflections in a time interval having $z_1 - \frac{\Delta z}{2} \leqslant z < z_1 + \frac{\Delta z}{2} ;$ a duration: Card1/3

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