(card 2)

HG-LIN 1-1

AUTHOR:

Vinogradov, A. P., Academician

30-1-10/39

TITLE:

The Conference Concerning the Utilization of Radioactive Isotopes in Scientific Research (Ma konferentsii po ispolizovaniyu radioizotopov v nauchnykh issledovaniyakh)

PERIODICAL:

Vestnik AN SSSR, 1953, Vol. 28, Nr 1, pp. 71-78 (USSR)

ABSTRACT:

This conference took place from September 9, to September 20, 1957 in Paris and had been convened by the UNESCO. It was attended by 1500 scientists from 50 countries. The head of the Soviet delegation was A. V. Topchiyev; the Soviet delegation submitted 46 reports, which are dealt with. All other reports were from Western countries. The conference program was divided into two sections: A physical and a biological section. In the physical section, to which also the author belonged, discussions wereheld on physics, chemistry, metallurgy, geophysics, etc. The greatest attention was paid at this conference to the reports concerning the obtaining of radioactive isotopes, the production of radioactive sources, measuring technique and methods. V. L. Karpov, on behalf of the collective of the scientific Physical-Chemical Research Institute imeni L.

Card 1/3

The Conference Concerning the Utilization of Radioactive Isotopes in Scientific Research

30-1-12/39

Ya. Karpov (Kollektiv nauchno-issledovatel skogo fizikokhimicheskogo instituta imeni L. Ya. Karpova) reported on the establishment of a y-ray source of high efficiency. K. K. Aglintsev discussed basic problems of measuring dosage. N. A. Perfilov and his collaborators reported on the production of a finelygrained emulsion for nuclear research. P. L. Gruzin, I. H. Frantsevich, A. A. Zhukhovitskiy, V. T. Borisov, S. Z. Bokshteyn and others submitted data concerning the diffusion and electric transmission of carbon in iron and its alloys. A. N. Murin reported on the diffusion kinetics with respect to the melts of salts, oxides, and sulphides. The method of autoradiography for the determination of non-metallic inclusions in iron alloys was dealt with by Z. Bojarskiy and for the purpose of investigating wear in connection with the structure of alloys, iron-, chromium-, and tungsten-carbides - L. S. Palatnib. V. I. Spitsyn gave information concerning the structure of heteropoly compounds, especially of phosphorus wolfranates, and pointed out the great mobility of oxygen- and hydrogen atoms in them. Ye. Ye. Finkel'reported on the original and very simple method

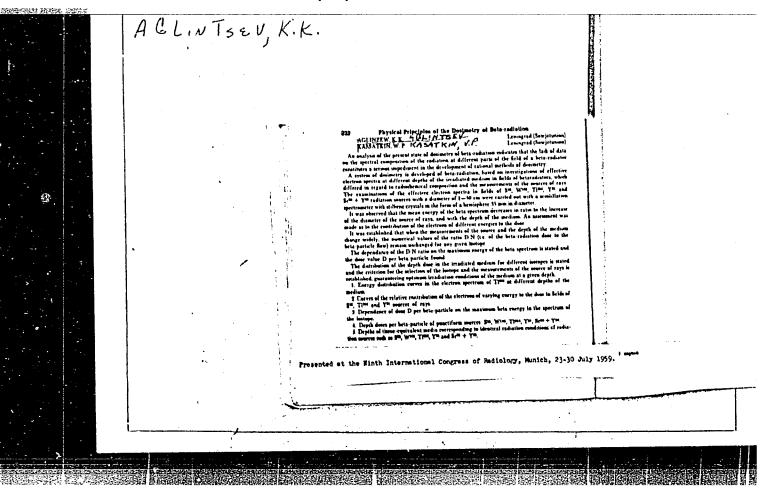
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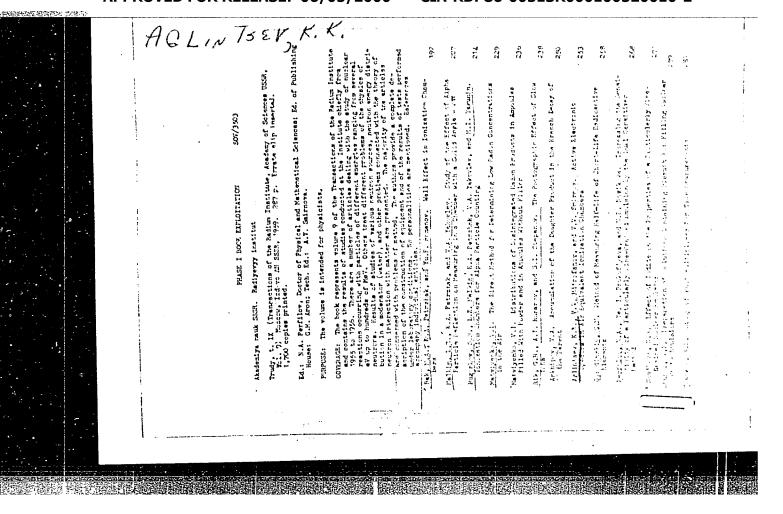
AGLINTSKY, K.K.: KARAVAYEV, F.M.; KARAMYAN, A.S.; KONSTANTINOV, A.A.; OSTROMUKHOVA, G.P.; KHOL NOVA, Y.A.; YUDIN, M.F.; YARITSYNA, I.A.

Achievements in the methrology of ionizing radiation and prospects for its development. Trudy. VNIIM no.33:135-158 '58. (MIRA 11:11)

1. Rukovoditel' otdela ioniziruyushchikh izlucheniy Vsesoyuznogo nauchno-issledovatel'skogo instituta metrologii imeni D.I. Mendeleyeva (for Ağlintsev).

(Radiation--Standards)





GORSHKOV, Georgiy Vasil'yevich; AGLINTSKY, K.K., prof., doktor tekhn.
nauk, red.; TRAVIN, N.V., red.ind.va; ZNDEL', M.Ye., tekhn.red.

[Gamma-radiation from radioactive substances and fundamental calculations for protection against radiation] Gamma-isluchenie radioaktivnykh tel i elementy rascheta zashchity ot izlucheniia.

Moskva, Izd-vo Akad.nauk SSSR, 1959. 292 p. (MIRA 12:12)

(Gamma rays) (Radiation protection)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100520010-2"

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And the second s		International Conference on the Peaceful Hers of Atomic En Commun, 1958	maklady sovetakikh unbenyth; polacheniye i priz or Boriet Erientiste; Production and Applic Atominist, 1959, 588 p. (Series: Its: Tri printed	Eds. (Fills pags): G.T. Klirkymmov, Academician, and I.I. Northov, Correspond- ing Nember, USSR Academy of Sciences; Ed. (Inside book): Z.D. Animopratio, Tech. Eds. Z.D. Animopratio.	FUNCOSI: This book is intended for scientifies, engineers, physicisms, and biologists supposed in the production and spillcetion of stonic energy to personers and graints and nongenhes spillcris of higher technical schools where malaar stience is fample; and for the general public interested in atomic science and technology.	COVERACE: This is volume 6 of a 6-volume set of reports contempts at the Second International Conference on	Atomic Energy held in Genera from September 1 to 13, 1959. Volume 6 non- tains 32 reports on: 1) sociarm asthold for the production of stable relici settive flootoges and their labeled compounds, 2) research results circular- tain the set of flootoges in the field of chemistry, pertainingly, building, and serioulture, and 3) desirenty of conting minister. Franchistry, conditions of Chemical Sciences; and VW. Scient, Challers of parabory, Conditions of Chemical Sciences; and VW. Scient, Challers of parabory, Conditions of Chemical Sciences; and VW. Scient, Challers of parabory, Conditions of Chemical Sciences; and VW. Scient, Challers of parabors appear at the ord of the stilling of volumes of the set. Parabors	Bibergal', Avy, T.L. Karpov, and V.L. Siniters. Cobalt Sources of Histography for Radistive Action (Seprit Do. 22%)	Omser, M.G., Ye. Ye. Mornier, and Y.I. Popor. and Outside Extended Sources (Report No. 2088)	<pre>Malitimer. Labe. N.d. Dat, V.V. Dochterr, Te.d. Grachers, 2.V. Terab- and L.A. Petribak. System of Radiometric Measurement of Radiosctive Instances (Report Bo. 2007)</pre>	Agintaev, K.K., V.P. Essathin, V.V. Mirofesoy, and V.Y. Edinov. V.G. Off. Modelev Spectroscopy Methods to Nete and Genne-ray Desinat (Maport Bo. 299.)		Combairy, A.A., W.E. POLIEMPOV, and V.A. Blassova. Irradiana Analyzing A.E., W.E. POLIEMPOV. and W.A. Blassing of Aerosol Alpha Manalyzing Majors (Report So. 2130)						19, 271.) 11. datryper, 3.V., A.V. Voywodin, V.L. Kolnkmore, and A.V. Botymortin, 17. instructing 3.V., A.V. Voywodin, V.L. Kolnkmore, and Protection (Separates of Uning Politocctive Instruction Plants of Uning Politocctive Instruction (Separates of Uning Protection (Separates	Lirosata (5736)
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SOV/115-59-2-29/38

21(8)

AUTHOR: Aglintsev, K.K., Ostromukhova, G.P., Khol'nova, Ye.A.

TITLE:

Determining the Process of Air Ionization for Co⁶⁰ Gamma Radiation (Opredeleniye raboty ionizatsii v

vozdukhe dlya gamma-izlucheniya Co⁶⁰)

PERIODICAL:

Izmeritel'naya tekhnika, 1959, 20 Nr 2, p 52 (USSR)

ABSTRACT:

The author believes that there is a lack of information so far on the importance of ionization in the field of hard gamma radiation. Tests were made to determine the value of ionization in the air for $\rm Co^{60}$ gamma radiation. This was found by measuring the same preparation $\rm Co^{60}$ m with the help of a normal ionization chamber to ascertain the number of ion elements and of gamma calorimeters, which give the value of the absolute activity of this preparation. Tests with four different $\rm Cc^{60}$ preparations showed that the mean value of ionization equaled 33.7 = 1.5 ev. There are 5 references, 3 of

Card 1/1

which are Soviet and 2 English.

ACLINISEV, K.K.; MITROFANOV, V.V.; SMIRNOV, V.V.

Active electron spectra in air-equivalent ionization chambers. Trudy Radiev.inst.AN SSSR 9:253-257 '59. (MIRA 14:6) (Ionization chambers) (Electrons—Spectra)

21(3) SOV/89-6-1-8/33 Aglintsev. K. K. / Ostromukhova, G. P. AUTHORS: Distribution of Ionization Along a Y-Beam and Reproduction TITLE: of the Roentgen With Normal Ionization Chambers (Raspredeleniye ionizatsii vdol' puchka /-izlucheniya i vosproizvedeniye rentgena normal'nymi ionizatsionnymi kamerami) Atomnaya energiya, 1959, Vol 6, Nr 1, pp 63 - 66 (USSR) PERIODICAL: Measurement of the ionization effect of Y-radiation which ABSTRACT: corresponds to one roentgen unit is carried out in a pressure ionization chamber. Measurement of the roentgen unit is reduced to measurement of the ionization current and to determination of the measuring volume. The gauging method for reproduction of the roentgen requires knowledge of the point at which the measured ionization effect is produced. Hitherto it has been assumed that the measured ionization ourrent is proportional to the radiation energy absorbed in the measuring volume. The value of dose output, on the other hand, refers to the center of the measuring electrode. Ionization in the chamber is brought about by the electrons which are produced not only in the measuring volume (above the measuring electrode), but also in such parts of the Card 1/3

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100520010-2"

Distribution of Ionization Along a Y-Beam and Reproduction of the Roentgen With Normal Ionization Chambers

sov/89-6-1-8/33

volume as are located before and behind the measuring electrode. The influence exercised by this additional ionization upon the ionization in the measuring volume is theoretically calculated and experimentally checked also for Co⁶⁰

radiation.
It follows from measurements and calculations that the measuring method generally used for determining the radose be means of normal ionization chambers is systematically at fault, because the absorption of radiation in the air is not properly taken into account. In order to avoid such errors, it is necessary to take the absorption of rays in the part X into account, which is located between the

effective absorption point of the Y-quanta and the center of the measuring electrode. This is done by multiplying the measured ionization current by the coefficient k

k = e APxo

Card 2/3

where μ denotes the linear attenuation coefficient of the

SOV/89-6-1-8/33 Distribution of Ionization Along a Y-Beam and Reproduction of the Roentgen With Normal Ionization Chambers

radiation to be measured in air at P = 1 atm and T = 20°C. The value for k is 0.992 for Co and 0.996 for Cs 7. There are 5 figures and 4 references, 1 of which is Soviet.

SUBMITTED:

September 1, 1958

Card 3/3

sov/89-7-2-6/24 21(8) Aglintsev, K. K., Kasatkin, V. P. AUTHORS: A Method of 3-Ray Dosimetry Based on Examining the Electron in the : TITLE: Helds of β - radiators Spectra (Metod dozimetrii β -izlucheniya, osnovannyy na issledovaniyakh elektronnykh spektrov v polyakh \(\beta -izluchateley \) Atomnaya energiya, 1959, Vol 7, Nr 2, pp 138 - 143 (USSR) PERIODICAL: The relation D = N($\frac{dE}{dx}$) was theoretically calculated and ABSTRACT: experimentally confirmed; N is number of \beta -particles which penetrate into a certain volume, (average) the ionization loss of one electron in the examined matter and D the dose caused by the \$\beta\$-radiator. It was established that the value is determined by the energy of the \$ -spectrum of the concerned isotope and that it is practically independent of the depth of the matter and the diameter of the source. The 3spectra were measured with a scintillation-spectrometer (Ref 3) using a flattened semi-spherical stilbene crystal of a 35 mm Card 1/2

A Method of β -Ray Dosimetry Based on Examining the SOV/89-7-2-6/24 Electron in the Fields of β - radiators Spectra

diameter. The \$\beta\$-preparations of \$\s^{35}\$, \$\widetilde{w}^{185}\$, \$\text{Tl}^{204}\$, \$\text{y91}\$, \$\sc{sr}^{90}+Y^{90}\$, \$\text{Pr}^{32}\$, \$\sc{ce}^{144}+Pr^{144}\$ had a diameter of 1.8, 25 and 50 cm and were precipitated on transparent paper. As an underlay a 10 mm thick plexiglass plate was used. The distance between source and crystal was 2-6 cm. As equivalent for a material similar to the skin for which the depth dose was meant, filter paper was used. The \$\beta\$-spectra were examined at the following depths:

\$\frac{35}{3.3-13.2} \text{mg/cm}^2\$, \$\text{Tl}^{204}\$ 15-150 g/cm\$^2\$ and \$\sc{sr}^{90}+Y^{90}\$
\$37.5-450 \text{mg/cm}^2\$. (Shown in a diagram). The depth-dose curve enables us to determine the range for which the examined \$\beta\$-radiators can be best used. The ranges are:

\$\frac{35}{30-100} \text{mg/cm}^2\$ \text{W}^{185} \text{8-20 mg/cm}^2\$ \text{Tl}^{204} 20-30 \text{mg/cm}^2\$

\$\frac{79}{30-100} \text{mg/cm}^2\$ \text{Pr}^{144} \text{No mg/cm}^2\$. There are 4 figures and 3 Soviet references.

SUBMITTED: Card 2/2 January 29, 1959

21 (7)

SOV/115-59-11-31/36

AUTHORS:

Aglintsev, K.K., Bochkarev, V.V.

TITLE:

The International Symposium on Metrology of Radioac-

tive Isotopes

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 11, pp 64-65

ABSTRACT:

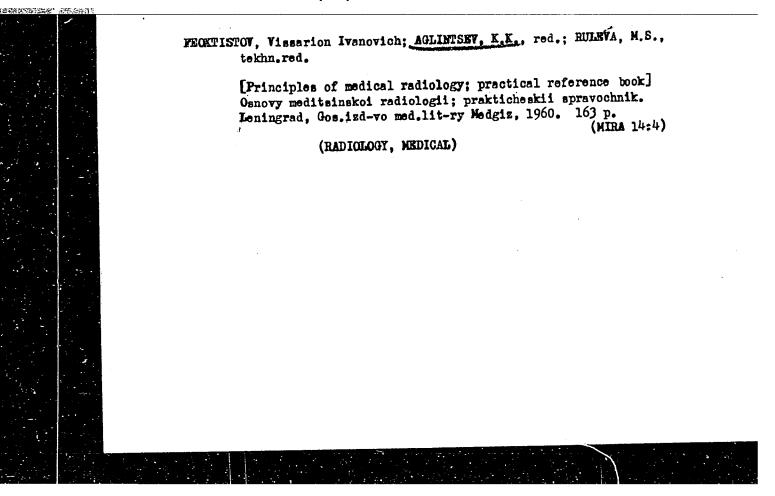
A symposium on metrology of radioactive isotopes was held in Vienna from October 14 to 16, 1959. It was organized by the International Atomic Energy Commission. About 100 scientists from 27 countries participated. A total of 37 reports was read, 7 of them were reviews of radioactive measurement methods adopted in different countries. The USSR delegation (K.K. Aglintsev, V.V. Bochkarev, V.N. Grablevskiy, F.M. Karavayev) reported on measuring radioactivity in the USSR. Another report (by V.V. Bochkarev and V.A. Bazhenov) dealt with the results obtained when measuring the radioactivity of volatile liquids by their vapors.

Card 1/1

CIA-RDP86-00513R000100520010-2" APPROVED FOR RELEASE: 06/05/2000

BIBERGAL, Anatoliy Viktorogich; MARGULIS, Usher Yakovlevich; VOROB'YEV, Yevgeniy Ivanovich; AGLINTSEV, K.K., prof., red.; ALEKSEYEV, D.M., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Protection against X-rays and gamma rays] Zashchita ot rentgenovskikh i gamma-luchei. Pod red. K.K.Aglintseva. Izd.2., perer. i dop. Mo-gamma-luchei. Pod red. k.K.Aglintseva. Izd.2., perer.



AGLINTSEV, K. K.

"Dose Power and Time Factor."

report presented at the meeting on Radiction Dosimetry, Intl. Atomic Energy Agency, Vienna, 7-11 June 1960.

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AUTHORS: Aglintsev, K. K., Bochkarev, V. V.

TITLE: Scientific and Technical News. International Conference

on Metrology of Radioactive Isotopes

PERIODICAL: Atomnaya energiya, 1960, Nr 1, pp 76-78 (USSR)

ABSTRACT: This is a report on the International Conference on

Metrology of Radioactive Isotopes which was held in Vienna on October 14-16, 1959. The relative materials will be published by the International Atomic Energy

Agency.

Card 1/1

AGLINTSEV, K.K.

Restorative functions in irradiated organisms. Biofizika 5 no. 6:740-744 160. (MIRA 13:10)

1. Radiyevyy institut imeni V.G. Khlopina AN SSSR, Leningrad. (RADIATION--PHYSIOLOGICAL EFFECT)

s/115/60/000/012/012/018 B021/B058

AUTHORS:

Aglintsev, K. K., Ostromukhova, G. P., and Khol'nova, Ye.A.

TITLE:

Measurement of the Gamma Constant of Radium

PERIODICAL:

Izmeritel'naya tekhnika, 1960, No. 12, pp. 40-42

TEXT: Methods and results of the determination of the gamma constant of radium which were obtained at the VNIIM (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev)), are given in this paper. The values of the %-constant were determined by measuring the values of the dose rate and the activity of one and the same preparation,

i.e. Γ (Ra) = $\frac{P.3600}{Af}$, P being the dose rate in 1-cm distance from the preparation, in r/sec; A the activity of the preparation in millicurie, f the coefficient of correction. Radon preparations were used instead of radium, in order to exclude errors due to self-absorption of γ -radiation in the source. The linear attenuation factor of the γ -radiation of radium

Card 1/2

Measurement of the Gamma Constant of Radium

S/115/60/000/012/012/018 B021/B058

in air was determined experimentally. The measurement results are represented graphically. The probable errors of quantities involved in the calculation of the dose rate are listed. The activity of the radon preparations was determined by the calorimetric method. The greater part of the studies for determining the * -constant of radium is based on measuring the dose rate by means of thimble chambers. Finally it is stated that all measurements made by means of thimble chambers up to the publication of the theories mentioned, require checking. The dependence of the data on the conditions of diaphragming is described as being the second error source in the measurement of the " -radiation by means of thimble chambers. Moreover, no method for calculating the correction for scattered radiation in air is elaborated for thimble chambers. Measurement results of the Y-constants of radium during filtering by means of 0.5-mm platinum, obtained by various authors, are mentioned next. According to the authors' data, this quantity will be 8.04 r/h.mg.cm in the case of an open-air chamber, if the number of decays per mg radium is assumed as being 3.68.10 . Other authors determined the Y-constant at 8.26, 8.16 and 8.4 r/h.mg.cm. There are 1 figure, 1 table, and 16 references: 4 Soviet, 8 US, 2 British, and 1 Canadian.

Card 2/2

DOLGIRKY, Yevgeniy Ivenovich; MALETEY, Pavel Ivenovich; SIDORENKO, Vladimirovich; KOZLOVA, V.A., inzh., retsenzent;
AGLINTSEY, K.K., prof., red.; AZAROVA, I.G., red.; TSAL,
R.K., tekhn. red.

[Nuclear radiation detectors] Detektory isdernykh izluchenii.

Pod red. K.K.Aglintseval Leningrad, Gos. soiuznoe izd-vo
sudostroit. promyshl., 1961. 222 p. (MIRA 14:5)
(Nuclear counters) (Radiation-Measurement)

278山 s/115/61/000/009/003/006 E032/E114

21,6000

AUTHOR:

Aglintsev, K.K.

TITLE:

The ionisation chamber as a standard apparatus for measuring the activity of Beta-emitting specimens

PERIODICAL: Izmeritel'naya tekhnika, 1961, No.9, pp. 39-42 In the activity range 10^{-11} to 10^{-7} curie, standardising β-activity measurements are carried out with the aid of 4π β -counters operated either as proportional counters or geiger counters. Scintillation counters with organic phosphors may be used to extend the upper limit of the activities to 10-5 curie. In the range above 0.01 curie, absolute activity measurements are carried out with There is therefore a gap between 10^{-5} and 10^{-2} curie. In order to fill this gap, the present author suggests the use of an ionisation chamber of the "extrapolating type". This n are the type of chamber is illustrated in Fig. 1, where u, 3, measuring, shielding and potential electrodes respectively. The effective area of the measuring electrode is $S = \pi \ell^2/4$ is equal to the sum of the diameter of the measuring electrode and one-half of the gap between it and the screening electrode. Card 1/4

Card 2/4

\$/115/61/000/009/003/006

The ionisation chamber as a standard... E032/E114 In all cases the diameter of the specimen is assumed to be equal to the diameter of the measuring electrode. When the electrode n is displaced from position 1 to position 2, there is a change in the working volume $(V_1 - V_2)$ and hence a corresponding change in the ionisation current $(I_1 - I_2)$. In Fig.1 the change in the volume is shaded. The possibilities of this type of chamber are illustrated by the following example. Suppose that S = 0.1 cm², $L_1 = 6$ mm, $L_2 = 5$ mm (L is the distance between the electrodes) and hence $V_1 - V_2 = 0.01$ cm³. The specimens to be measured are the following isotopes; S35 (167 keV), W185 (430 keV), T1204 (765 keV), Y91 (1560 keV), and P32 (1690 keV). The figures in brackets indicate the maximum energy of the 6 checkets. in brackets indicate the maximum energy of the β -spectrum. The activity of the specimens is assumed to be q = 1 curie/g. the intensity of the source $\rho = 1 \text{ g/cm}^3$, and the thickness of the specimen 0.1 mg/cm2, The self-abscrption can then be neglected. The volume $V_1 - V_2$ under these conditions will subtend a solid angle of approximately 0.024 at the source (K.A. Petrzhak, M.A. Bak. ZhTF, 1955, Vol.25, No.4, Ref.1), and consequently, this volume will be traversed by 9000 β-particles per second. The dose rate P due to these β -particles within the volume V_1 - V_2 may be found

27844
The ionisation chamber as a standard... E032/E114

from the data reported in Ref.2 (K.K. Aglintsev, V.P. Kasatkin, Atomnaya energiya, 1959, V.7, No.2) and has the following values (in units of 10-3 rad/sec) for the above isotopes: 12, 7, 4, 3.3 and 3.2, respectively. In the case of S35, the absorption of the β -particles in the air layer was allowed for; the correction The energy resolution may be improved and the amounts to 14%. current difference I1 - I2 may be increased by using larger thickness and area for the specimens. It is then shown how selfabsorption in the \$-source may be allowed for. Detailed consideration of various special cases involved shows that the source should be thick (100 mg/cm2, say) and should have an area The optimum value of the specific of the order of 10 cm². activity of the specimen should lie between 10-4 and 10-2 µcurie/mg. The current difference $I_1 - I_2$ will then be of the order of 10-11to 10-10 amp. As in the case of calorimetric determinations, the specimens must be radiochemically pure since the presence of other isotopes distorts the results. There are 4 figures, 1 table and 4 Soviet references.

Card 3/4

3/12/3

s/589/61/000/055/003/006 DO51/D113

21.6000

Aglintsev, K.K.; Ostromukhova, G.P. AUTHORS:

Roentgen reproduction within the range of \(\begin{align*} -radiation with a \end{align*} \)

TITLE:

quantum energy of 0.25;3 Mev

SOURCE:

USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta, no. 55 (115), Moscow, 1961. Issledovaniya v oblasti izmereniya ioniziruyushchikh

izlucheniy, 55-65

TEXT: The results of an investigation of a standard device for roentgen TEAT: The results of an investigation of a standard quantum energy up reproduction within the range of Y-radiation with a quantum energy up to 3 Mev are given. A previously described VNIIM installation of this type was intended for Y-radiation of up to 1.5 Mev. In order to raise the upper energy limit, some modifications were made. The standard chamber was placed into a tank permitting the air pressure in the chamber to be increased to 20 atm. This amount of pressure combined with

Card 1/4

CIA-RDP86-00513R000100520010-2" APPROVED FOR RELEASE: 06/05/2000

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\$/589/61/000/055/003/006
D051/D113

Roentgen reproduction within the range...

chamber parameters of d = 40 cm and r = 40 cm proved to be suitable for measuring 3 Mev radiation in roentgens. Further details concerning parameters, component parts and arrangement of the device are given. Determining the saturation current, the authors had to take into account the error due to increased air pressure, which makes it practically impossible to measure this current in the chamber. Using the Jaffe-Zanstra method (Ref. 11: Zanstra H., Physika, No. 2, 1935, p 817; Ref. 12: Jaffe G., Ann.d.Phys., Bd 42(4), 1913, S.303; Le radium, t. 10, 1913, p 126) and experimentally verifying the derivations obtained by measuring (3 - radiations of S) and (3 - radiations of CoO), it was found that at up to 20 atm the corresponding saturation currents can be calculated according to this method with potential differences on the electrodes from 6:3 to 18 kg. The constant C must equal 1.24 10 in this case. The theoretical method of carrying out absolute measurements of the doses of 3 - radiation using the standard device is described. The dose rate P of radiation directed towards the plane of the diaphragm narrowing the radiation directed towards the plane of the diaphragm narrowing the radiation directed according to the formula ray beam, is calculated according to the formula

Card 2/4

34283 s/589/61/000/055/003/006 D051/D113

Roentgen reproduction within the range...

(J - saturation current in amperes, determined from Jaffe-Zanstra graphs; V - measurement volume equal to the product of the area of the aperture section of the narrowing diaphragm and the effective length of the measuring electrode: K = K,K,K,K,K,K,C - product of correction factors for temperature, radiation attenuation; etc.) Special stress is laid on the calculation of K, (correction factor for the effect of scattered radiation). The following conclusions were drawn: (1) The Roentgen unit could be reproduced for radiations with a quantum energy of up to 3 Mev. Taking all corrections into consideration, the value of the Co - constant as established at VNIIM (13.0 r/h mc cm) coincided with an accuracy of 2.5% with the value (12.7 r/h mc cm) obtained at the NBS. There are 9 figures and 20 references: 8 Soviet and 12 non-Soviet-bloc. There are 9 figures and 20 references: 8 Soviet and 12 non-Soviet-bloc. The four most recent English-language references are: H.O. Wyckoff, J.Research. NBS, v. 64C, No. 2, 1960; Report of the International Commission on Radiological Units and Measurements, 1956, NBS, Handbook 62, 1957; L.V. Spenser, Phys.Rev., v. 98, 1955, p 1609; F.H. Attix, L. de la Vergne, J. Research, NBS, v. 53, 1954, p 393.

Card 3/4

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100520010-2"

1

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s/589/61/000/055/003/006

Roentgen reproduction within the range... DO51/D113

ASSOCIATION 8 VNIIM

SUBMITTED: March 30, 1960.

4

Card 4/4

26, 2541

\$/186/61/003/002/017/018 E111/E452

AUTHOR:

Aglintsev, K.K.

TITLE:

Determination of the effective age of fission fragments

PERIODICAL: Radiokhimiya, 1961, Vol 3, No.2, pp.237-239

TEXT: A simple graphical method is described for determining the effective age of fission fragments and the duration of irradiation of uranium in a reactor. The method is based on the comparison of the isotopic composition of two different fragment elements. The ratio of the activities f of two isotopes is related to to (the duration of irradiation) and τ (the time elapsed from the end of irradiation) by

 $f = \frac{p_1}{p_2} \frac{(1 - e^{-\lambda_1 t_0})}{(1 - e^{-\lambda_2 t_0})} e^{-(\lambda_1 - \lambda_2)\tau}$ (4)

or

 $f = H(t_0) e^{-(\lambda_1 - \lambda_2)\tau}. \tag{5}$

where λ_1 , λ_2 are the radioactive constants and p₁, p₂ the yields (in atoms per fission). To find f and τ the author Card 1/2

Determination of the effective ...

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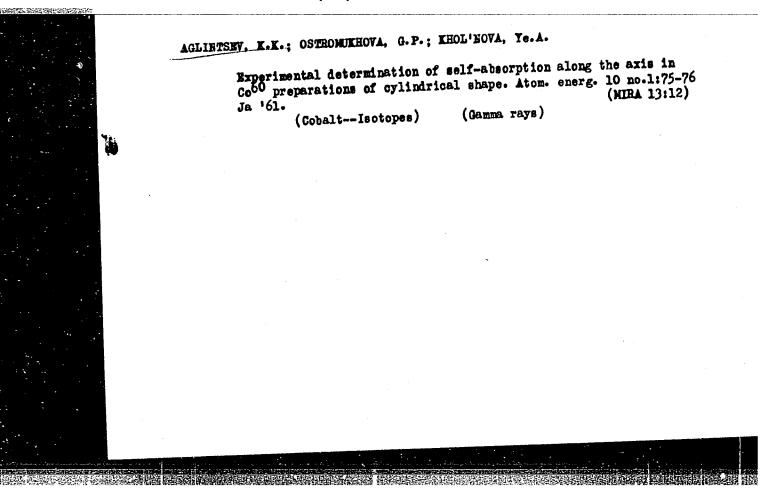
X

5/186/61/003/002/017/018 E111/E452

recommends use of measurements for Ce^{141}/Ce^{144} and Sr^{89}/Sr^{90} , the relevant information being available from the author's (Ref.2: Atomnaya energiya, 4, 5, 461 (1958)) and other (Ref.1: D.Strominger, T.Hollander, G.Seabord, Rev.Mod.Phys., 30, 2, 585 (1958)) work. The f-t relation in a logarithm form is linear and is used by the author to construct the nomogram which gives to and the time when irradiation ended. There are 1 figure and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English language publication reads as follows: D.Strominger, T.Hollander, G.Seabord, Rev.Mod.Phys., 30, 2, 585 (1958).

SUBMITTED: April 23, 1960

Card 2/2



5/081/62/000/003/031/090 B150/B101

AUTHOR:

Aglintsev. K. K.

TITLE:

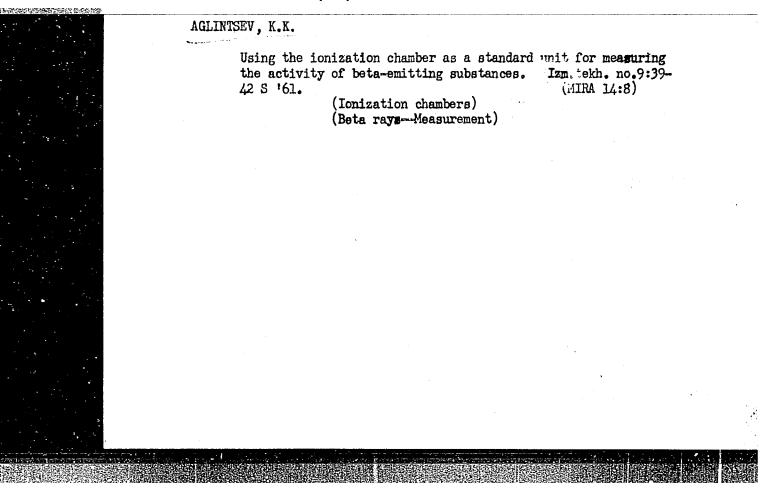
Levels of ionizing radiations on the earth

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 130, abstract 3G117 (Tr. Konferentsii po radiats. gigiyenem, 1959, L.,

1960, 93 - 97)

TEXT: The earth's population is exposed to a systematic action of ionizing radiation. The irradiation dose by the natural background (cosmic rays, radioactivity of rocks) is 0.1 rem per annum, and from artificial sources (X-rays irradiation) it is 0.1 rem per annum. A particular danger is presented by long-lived radioactive substances which have arrived in the stratosphere as a result of atomic explosions. The rate of radioactive fall-out in 1958 was ~ 3 mCu/km2 per annum, and the content of radioactive substances in the soil was 10 mCu/km2. Abstracter's note: Complete translation.

Card 1/1



S/263/62/000/006/014/015 I008/I208

AUTHORS:

Aglintsev, K.K. and Ostromukhova, G.P.

TITLE:

A unit for producing 1 roentgen in the 8-radiation

range of quantum energy of 0.25-3 Nev.

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritelnaya tokhniva, no.6, 1962, 53, abstract 32.6.338.

(Tr. in-tov Kom-ta standartov, mer i izmerit. priborov

pri Sov. Min. SSSR, 1961, 0055(115), 55-65)

TEXT: A standard unit of VNIIM for producing 1 roentgen in the X-radiation range of quantum energy of 0.25-3 MeV is described. The ionization chamber was installed in a tank, in which the air pressure could be increased up to 20 atm. This was sufficient to enable continues with an ionization chamber of d = 40cm. and r = 40cm parameters radiations in a reactor of quantum energy up to 3 MeV. The anode voltage was 20 kV. The ionization currents were measured by the null method, using a d.c. amplifier of the 3MY-3 (EMU-3) type. In this method the nonlinearity of the am-

Card 1/2

S/263/62/000/006/014/015 I008/I208

A unit for producing 1 roentgen...

plifier did not introduce; an error in the measurements of the current strength. At the same time the error in the ionization current did not exceed ± 3%. Taking into account all the correction coefficients the value of the 8-constant of Co⁶⁰, measured by means of this standard unit, agreed with the values measured by U.S.A. National Eureau of Standards within 2.5%. There are 9 figures, 1 table and 20 references.

Abstracter's note: Complete translation.

Card 2/2

38039

S/263/62/000/005/007/010

1007/1207

7/. (pe en Authors:

Aglintsev, K. K., Maksimova, M. P., and Uryayev, I. E.

Title:

A SPECTRAL METHOD FOR DETERMINING GAMMA-RAY DOSES

Periodical:

Referativnyy zhurnal, Mashinostroyeniye, no. 5, 1962, 64 abstract 32.5.356 (Trudy in-tow Kom-ta

standartov, mer i izmerit priborov pri Sov. Min. SSSR, no. 55(115), 1961, 90-98)

Text: Description is given of a method for determining radiation doses from flat β -sources, the method being based on the use of an active electron spectrum. Spectral research was carried out by means of a scintillation beta-spectrometer consisting of a I-C photomultiplier ansd a stilbene crystal 20 mm long and 25 mm in diameter. During the measurements the spectrometer and radiation source were enclosed in a nontranslucent (opaque) container. The efficiency of the measuring unit was determined by comparing the measurement results obtained by the same source and by a 4π counter. Comparison was made of the intensity values of the absorbed dose, by measuring both with the ionization (extrapolation) and the scintillation chambers. When using a Tl²⁰⁴ source with a working diameter of 38 mm, the intensity values of the dose measured by the above methods at a distance of 9 cm from the source, showed good agreement, with a deviation of only $\pm 2.5\%$. The distribution of the dose field was investigated for a series of beta radiators (S³⁵, Tl²⁰⁴, Y⁹⁰ and Il³¹) of varying working diameter, applied to different supports. In these experiments, the scintillation counter was

Card 1/2

X

AGLINTSEV, K.K.; MITROFANOV, V.V.; RINSKIY-KORSAKOV, A.A.;

SMIRNOV, V.V.

Investigation of the angular distribution of photoelectrons knocked out of Ag and Bi targets by gamma rays from Cs 137.

Izv. AN SSSR. Ser. fiz. 26 no.9:1141-1145 '61.

(Electrons—Spectra)

(Gamma rays)

AGLINTSEV, K.K.; MOSKVINA, Ye.P.; RUSINOVA, S.A.

Measuring the activity of beta emitters by means of an ionization chamber. Trudy inst. Kom. stand., mer i izm. prib. no.69:42-55 *62. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. Mendeleyeva.

AGLINTSEV, K.K.

Use of Co⁶⁰ gamma sources as standard measures in determining the unit of exposure dose rates. Trudy inst. Kom. stand., mer the unit of exposure dose rates. Trudy inst. Kom. (MIRA 17:8) i izm. prib. no.69:70-74

l. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. Mendeleyeva.

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32006 S/089/6**2/**012/001/009/019 B102/B138

24.6400

AUTHORS:

Aglintsev, K. K., Kasatkin, V. P.

TITLE:

The shape of the beta spectra at various depths of an irradiated medium

PERIODICAL: Atomnaya energiya, v. 12, no. 1, 1962, 51 - 52

TEXT: Problems of beta dosimetry require knowledge of the spectral shape. This has been found to be only slightly dependent on the depth of the irradiated medium. This empirical fact was verified by investigations of the shape of transmission β -spectra for S $^{35}(E_{max}=0.167\ \text{MeV})$, $^{185}(E_{max}=0.43\ \text{MeV})$ and Y $^{91}(E_{max}=1.55\ \text{MeV})$. In all cases the peaks were of equal height, independent of depth and were somewhat broader for smaller thicknesses. On the N(E/E_{lim})-curves they shifted toward higher E/E_{lim} values when thickness was raised. The dose D was found to be constant in each case, which holds for filtrations in which 7 - 10% of the number of incident β -particles remain in the beam. With stricter Card 1/2

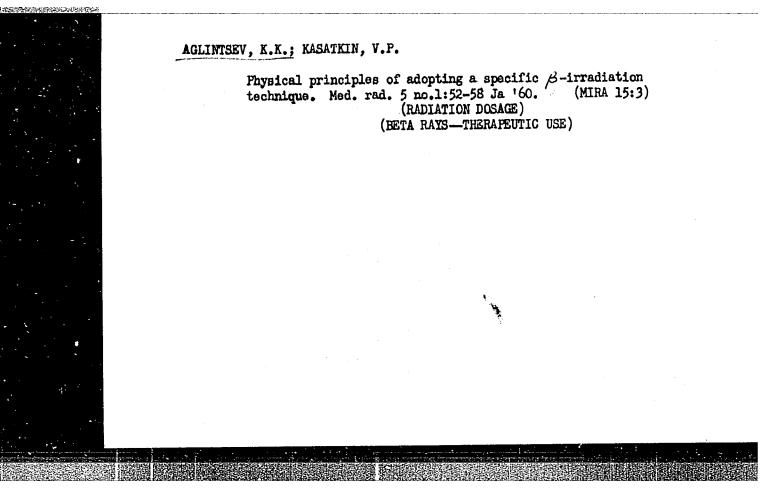
The shape of the beta...

32006 S/089/6**2/**012/001/009/019 B102/B138

filtration the spectrum becomes softer. The β -spectrum of y^{91} , filtered through 525 mg/cm² of a tissue-like substance, is similar to the non-filtered Tl²⁰⁴ spectrum ($E_{max} = 0.76$ MeV). There are 2 figures and 2 Soviet references.

SUBMITTED: September 22, 1961

Card 2/2



AGLINTSEV, K.K.; KODYUKOV, V.M.; LYZLOV, A.F.; SIVINTSEV, Yu.V.; CHUGASOV, A.A., red.; MAZEL¹, Ye.I., tekhn. red.

[Applied dosimetry]Prikladnaia dozimetriia. Pod obshchei red. K.K.Aglintseva. Moskva, Gosatomizdat, 1962. 246 p. (MIRA 16:2)

PHASE I BOOK EXPLOITATION

SOV/6376

Aglintsev, K. K., V. M. Kodyukov, A. F. Lyzlov, and Yu. V. Sivintsev.

Prikladnaya dozimetriya (Applied Dosimetry). Moscow, Gosatomizdat, 1962. 246 p. 7800 copies printed.

Ed. (Title page): K. K. Aglintsev, Professor; Ed.: A. A. Chugasov; Tech. Ed.: Ye. I. Mazel',

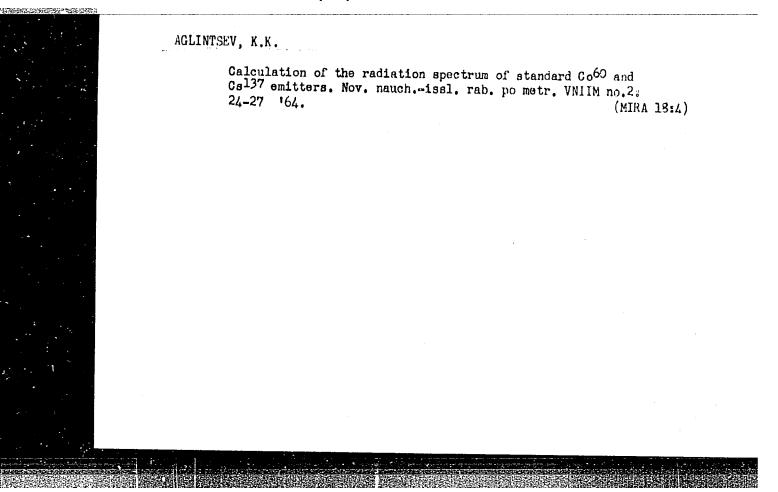
PURPOSE: This book is intended for engineers and technicians working in the field of atomic energy. It can also be used by students specializing in ionizing-radiation dosimetry.

COVERAGE: The physical principles of dosimetry are described, and the organization of radiation control in laboratories and enterprises engaged in work with ionizing radiation is discussed. No personalities are mentioned. There are 30 Soviet references, 10 of which are translations.

Card 1/2

AGLINTSEV, K.K.; KUL'KOVA, L.P.; KHOL'NOVA, Ye.A.

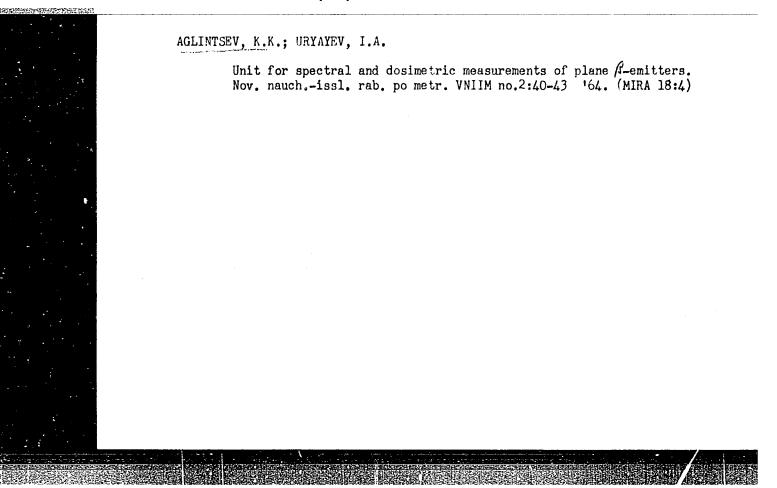
Standard calorimetric unit UKG-1. Nov. nauch.-issl. rab. po metr.
VNIIM no.2:1-4 '64. (MIRA 18:4)



AGLINTSEV, K.K. & KOCHINA, M.P. & URYAYEV, 1.A.

Unit with extrapolation chambers for measuring the intensity of radiation doses from plase Beta-ray emitters. Nov. nauch.-issl. rab. po metr. VNIIM no.2, 32-35 164.

UPK apparatus for studying the fields and intensities of β -rays from plane emitters. Ibid.:36-40 (MIRA 18:4)



L 15123-65 EWT(m) DIAAP/SSD/AFWI. DM ACCESSION NR- AP4045336 S1008018410171003/0217/0219

AUTHOR: Aglintsev, K. K., Kasatkin, V. P.

TITLE: On the passage of beta-particles through matter

SOURCE: Atorinaya energiya, v. 17. no. 3. 1964 217 219

TOPIC TAGS: beta particle, passage, beta particle scattering, maximal beta particle energy, beta particles absorption coefficient

ABSTRACT: The paper describes the experimental investigation of the passage of beta-particles through substances with Z_{eff} ? The spectra of scattered beta-particles were measured with a scintillation—spectrometer. The angular distribution was measured of scattered—particles emitted by $P_m^{1.47}$ ($E_{max}=0.22$ Mev), $W^{1.85}$ ($E_{max}=0.43$ Mev), $T1^{20.4}$ ($E_{max}=0.765$ Mev), and P^{32} ($E_{max}=1.7$ MeV) of 4 microcuric strength—The following relationship between the "absorption" coefficient—and the maximal energy—if a particles E_{max} was found $\mu=0.0157$ E_{max}^{37} . Orig. art. has: 5 figures

Cord 1/2

L 15123-65
ACCESSION NR: AP4045336

ASSOCIATION: None
SUBMITTED: 11Nov63 ENCL: 00
SUB CODE, NP NO REF SOV: 001 OTHER: 005

AGLIULOV, N.Kb., BORISOV, G.K.; RUNOVSKAYA, I.V.

Laboratory fractionating column for gas scrubbing. Zav. 1ab. 30 no.9:1152-1153 '64. (MMRA 18:3)

1. Nauchno-issledovatel'skiy institut khimii pri Gert ovskom gosudarstvennom universitete imeni Lobachevskogo.

62562-65 ENT(m) Peb DIAAP CCESSION NR: AT5018649	UR/2950/65/000/004/0017/0022
UTHOR: Aglintsev, K. K. (Deceased)	7/
ITIE: Measuring ionizing radiation	
OURCE: EIKA, Entsiklopediya izmereniy, konteasurement, control, and automation), no. 4	trolya i avtomatizatsii (Encyclopedia of , Moscow, Izd-vo Energiya, 1965, 17-22
radioactivity measurement, radioactive mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of mater / M RESTRACT: The article is a review of material in the first graph of the first graph of magnitudes of the first graph of magnitudes is concerned with the	measurement. Iddition measurement. Iddition measurement. Iddition measurement. Iddition measurement. The second and a control of the control
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ACCESSION NR: AT5018649

only with the aid of the methodology of related desciplines, among them nuclear spectroscopy, nuclear electronics and radiochemistry. The orthast of figures, 10 formulas.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiv institut metrologii im. D. I. Mendeleyeva, Leningrad (All-Union Scientific Research Institute of Metrology)

SUBMITTED: OC ENCL: 00 SUB CODE: NP, EC

NO REF SOV: 031 OTHER: 004

ACC NR. AP5015739

SOURCE CODE: UR/0205/65/005/003/0459/0463

AUTHOR: Aglintsev, K. K.; Kasatkin, V. P.

ORG: Institute of Radiology im. V. G. Khlopin (Radievyy institut)

TITLE: Energy spectra and linear energy loss in fields of beta emit-

ters 19,44,55

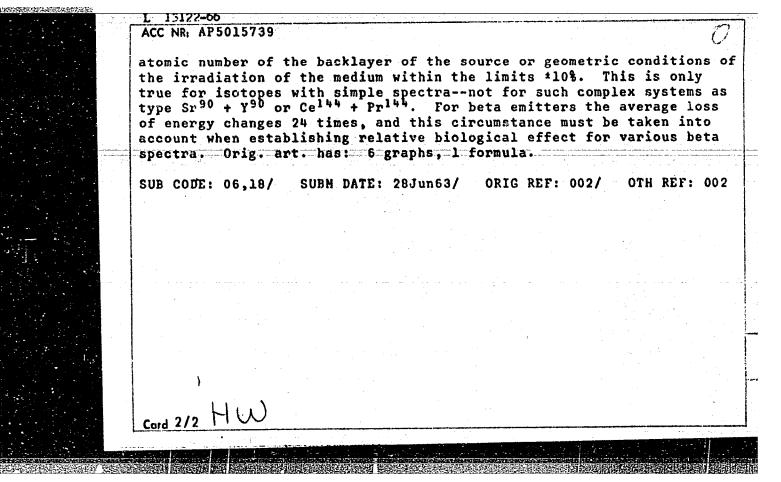
SOURCE: Radiobiologiya, v. 5, no. 3, 1965, 459-463

TOPIC TAGS: beta radiation, beta spectrum, scintillation spectrometer

ABSTRACT: In order to obtain data on the relative biological effect of various beta emitters, the electronic spectra in the fields of these radiators were studied. The study made use of a scintillation spectrometer with stilbene crystal 20 mm thick and 20 mm in diameter. Preparations S³⁵, W185, T1204, Y91, P³², Sr⁹⁰ + Y⁹⁰ and Cel⁴⁴ + Prl⁴⁴ served as beta-emitters. It was demonstrated that the absorbed dose for an isotope with a simple beta spectrum was determined by the values of the ionization loss averaged on the beta spectrum. Systematic investigation of the beta spectra showed that this dosage, despite changes in depth, depends only on maximum energy of a beta spectrum for a given isotope and not on the depth of the medium, diameter of the source,

UDC: 621.039.55

Card 1/2



ACC NR: AR6017213

SOURCE CODE: UR/0058/65/000/012/A059/A059

AUTHOR: Aglintsev, K. K.

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The second secon

FITLE: Measurement of ionizing radiation

SOURCE: Ref. zh. Fizika, Abs. 12A508

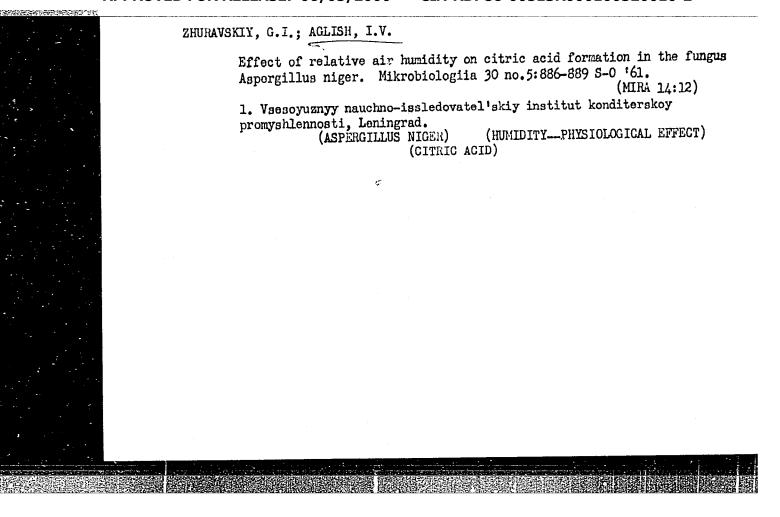
REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer i izmerit. priborov SSSR, vyp. 76 (136), 1965, 142-146

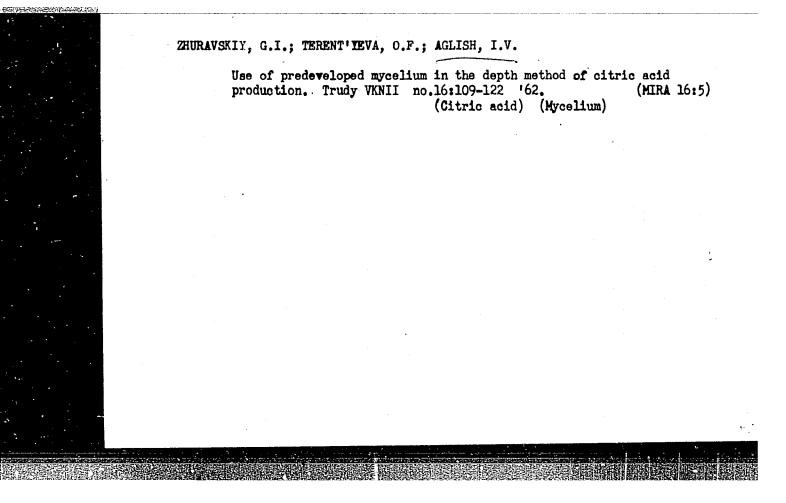
TOPIC TAGS: radiation measurement, ionizing radiation, physics research facility, metrology

ABSTRACT: The article considers (in chronological order) work on the measurements of ionizing radiation carried out since 1918 in the All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev (Leningrad). These operations were carried out in the laboratories of the radiometric (organized in 1918), x ray measurement (1924) and neutron (1947) laboratories. The most significant metrological work in the region of measurement of ionizing radiations are noted, together with the persons performing the work, and the problems faced by this field of measurements are formulated. P. A. [Translation of abstract].

SUB CODE: 20

Card 1/1 W





SOLOV'YEV, V.; AGLITSKAYA, A.; KULIK, Ya.; BARER, T.

Meat fermentation as a means for improving its quality. Mias. ind. SSSR 33 no.4:51-54 '62. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Solov'yev, Aglitskaya).

SOLOV'YEV, V.I., kand.khim. mauk; ADUTSKEVICH, V.A., kand.veter. nauk; KUZNETSOVA, G.N., starshiy nauchnyy sotrudnik; VOLKOVA, A.G., starshiy mauchnyy sotrudnik; SHCHEGOLEVA, O.P., inzhener-khimik; AGAPOVA, Z.A., mladshiy nauchnyy sotrudnik; AGLITSKAYA, A.V., mladshiy nauchnyy sotrudnik; KRAKOVA, V.Z., mladshiy nauchnyy sotrudnik

Investigations in the field of meat aging. Trudy VNIIMP mo.14: 20-35 '62. (MIRA 16:8)

(Meatr-Analysis)

RADINA, L.B.; AGLITSKAYA, K.V.; CHERKASOVA, A.I.; PUSHKAREVA, Z.V.

Derivatives of acridine. Part 4: Synthesis of Na-9-(6-chloro-2meth xy)acridyl-a-amino acids. Zhur. ob. khim. 34 no. 5:1543-1545 My '64. (MIRA 17:7)

1. Sverdlovskiy nauchno-issledovatel'skiy institut virusnykh infektsiy.



AGLITSKIY, S.

Portable self-hoisting metal scaffolding. Zhil.-kom. khoz. 12 no.3:15-16 Mr '62. (MIRA 15:10)

1. Nachal'nik Tekhnicheskogo otdela Upravleniya zhilishchnogo khozyaystva Ministerstva kommunal'nogo khozyaystva RSFSR.

(Scaffolding)

AGLITSKII, S. S., PHAYT, K.B.

Water - Pollution

Effect of sewers on the pollution of the sea and conditions of its self-purification. Gig. i san. no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 1953, Uncl.

MGLITSKIY, J. J.

AID P - 2464

Subject : USSR/Medicine

Card 1/2 Pub. 37 - 11/18

Authors : Aglitskiy, S. S., Prof., Stoyanovskiy, A. F., Prof.

Title : Water supply of populated rural localities of the Nikolayevsk Province from the Upper Ingul'ts Canal

Periodical: Gig. i san., 6, 52-53, Je 1955

Abstract : This paper was read at the All-Union Scientific Con-

ference of the Institute of General and Municipal Hygiene, Acad. of Med. Sci., USSR, April 6-10, 1954. It deals with the problem of the purification of the Dnepr and Ingul'ts water polluted by the development of irrigation canals, including the Upper - Ingul'ts system, in connection with the construction of the Kakhovka Hydroelectric Power Station. According to the authors, the installation of slow filters and chlorinators and a centralized water-supply system would provide the population with pure drinking water and satisfy the needs of cattle breeding and

Gig. i san., 6, 52-53, 💯 1955

AID P - 2464

Card 2/2

Pub. 37 - 11/18

agriculture.

Institution:

Chair of Municipal and General Hygiene, Odessa Medical

Institute im. N. I. Pirogov.

Submitted: June 28, 1954

CIA-RDP86-00513R000100520010-2" APPROVED FOR RELEASE: 06/05/2000

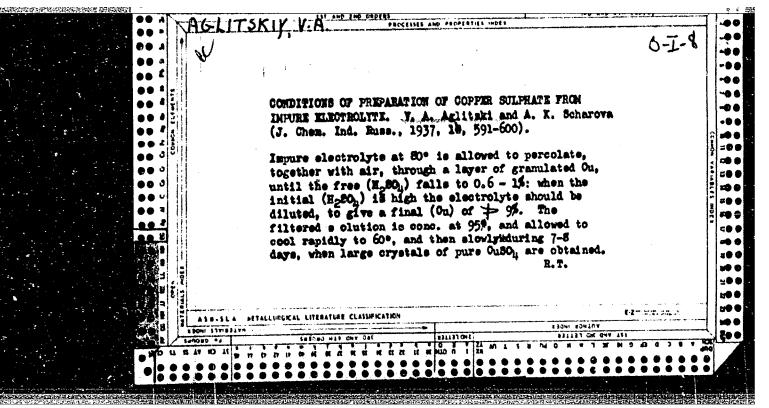
MARZEYEV, A.N., prof. Primali uchastiye: ACLITSKIY, S.S., prof.; VETOSHKIN, S.I., prof.; ZHABOTINSKLY, V.M., prof.; SMELYANSKIY, Z.B., prof.; MAREY, A.N., kand.mad.nauk; SILIVANIK, K.Ye., GORBOV, V.A., red.; SENCHILO, K.K., tekhn.red.; ZAKHAROVA, A.I., tekhn.red.

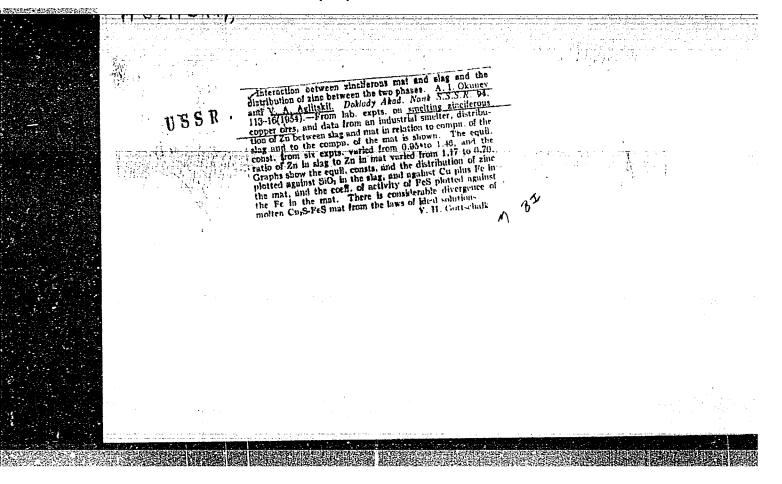
[Communal hygiene] Kommunal naia gigiena. Pri uchastii S.S.Aglitskogo i dr. Izd.2., dop. i ispr. Moskva, Gos. izd-vo med.lit-ry, 1958. 554 p. (MIRA 13:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Marzeyev).

(PURLIC HEALTH)

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SKIRNOV, Vasiliy Ivanovich, prof., dokt. tekhnicheskikh nauk;

AGLITSKIY, V.A., redaktor; KOVALENKO, N.I., tekhnicheskiy redaktor.

[Shaft furnaces in the metallurgy of non-ferrous metals].

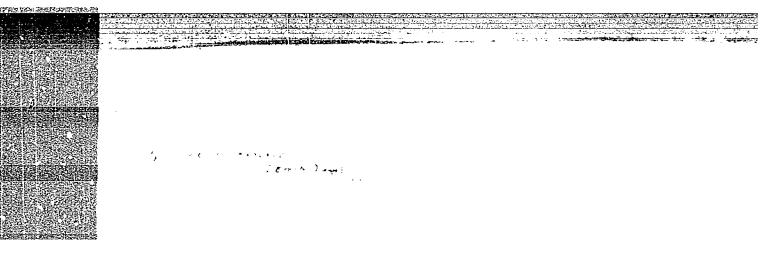
Shakhtnaia plavka v metallurgii tsvetnykh metallov. Sverdlovsk,

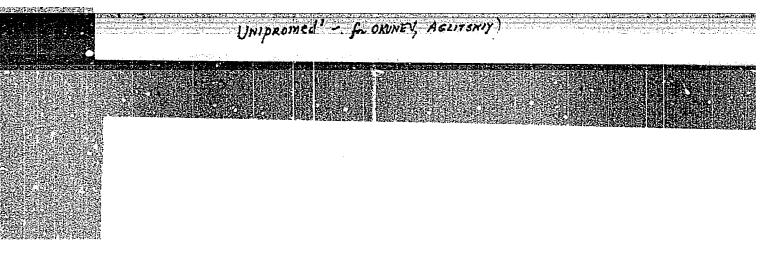
Gos. nauchno-tekhn.izd-vo lit-ry po chernoi ittsvetnoi metallurgii, Sverdlovskos otd-nie, 1955. 520 p. (MLRA 8:8)

(Smelting furnaces)

AGLITSKIY, Viktor Aleksandrovich; KOCHNEV, M.I., redaktor; KEL'NIK, V.P., redaktor izdatel'stva; KOVALENKO, N.I., tekhnicheskiy redaktor

[The manufacture of copper wire bars; theory and practice]
Proizvodetvo mednykh vaierbarsov; teoriia i praktika. Sverdlovsk,
Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi metallurgii,
Sverdlovskoe otd-nie, 1956. 287 p. (MLRA 9:10)
(Wire) (Copper-Metallurgy)





· URAL'OKLY Mayer No. 189Ledovatel'SKIY I Proyektny

SOV/137-58-11-22222

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 55 (USSR)

AUTHORS: Babadzhan, A. A., Aglitskiy, V. A.

TITLE: A Combination Flowsheet for Complex Processing of Lean Copper

and-Molybdenum Ores (Kombinirovannaya skhema kompleksnoy

pererabotki bednykh medno-molibdenovykh rud)

PERIODICAL: Tr. i materialy. Ural'skiy n. i. i proyekt, in-t medn. promesti,

1957, Nr 2, pp 280-291

ABSTRACT: Analysis of various process procedures results in recommenda-

tion of a method combining oxidizing roasting of Cu-Mo concentrate with hydrometallurgical treatment of the cinders. Roasting is at 550-670°C. Leaching of the cinders is by NaOH solutions. The Mo is extracted from Na₂MoO₄ as CaMoO₄ by addition of Ca(OH)₂ or CaCl₂. The residue, containing Cu, is reprocessed

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Card 1/1

137-58-6-11964

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 111 (USSR)

AUTHORS: Aglitskiy, V.A., Babadzhan, A.A.

Relationship of Blister Copper Quality to Degree to Which Blow TITLE:

is Carried (Kachestvo chernovoy medi v zavisimosti ot stepeni

yeye produvki)

PERIODICAL: Tr. 1 materialy. Ural'skiy n.-i. i proyektn. in-t medn. prom-

sti, 1957, Nr 2, pp 292-306

An experimental study was conducted to determine the effect ABSTRACT: of the degree of Cu blow on its quality under the conditions obtaining at the Kirovograd and Krasnoural'sk copper smelters. The Cu contents of the blister Cu rises with continuing blow, attaining a maximum at 0.25-0.30% O. Further increase in O contents results in some reduction in Cu contents. As the O contents of the blister copper rise to 0.40%, there is a sharp reduction in S contents. There is virtually no change in the Ni, Zn, Bi, Pb, Sb, and Fe contents as O concentration rises to

0.7%. To obtain a satisfactory ingot surface it is necessary to continue to blow the Cu until it contains >0.4% O. 1. Copper ores--Processing 2. Copper--Production 3. Copper--Quality control 4. Oxygen--Effectiveness

Card 1/1

137-58-6-11955

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 110 (USSR)

AUTHOR: Okunev, A.I., Aglitskiy, V.A.

TITLE: Electrical Smelting of Ore in Copper Metallurgy (O rudnoy

elektroplavke v metallurgii medi)

PERIODICAL: Tr. i materialy. Ural'skiy n.-i. i proyektn. in-t medn. prom-

sti, 1957, Nr 2, pp 307-315

ABSTRACT: A list of the advantages and disadvantages of the electric

smelting of ores is presented. It is noted that electrical smelting yields best results only when roasted or dried material is

smelted.

G.S.

1. Copper ores--Processing 2. Electric furnaces--Effectiveness

Card 1/1

SOV/137-58-7-16169

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 321 (USSR)

AUTHORS: Aglitskiy, V. A., Yudytskiy, A. P., Fedotova, Ye. I.

TITLE:

On the Method of Noble-metals Assay of Blister Copper (O metodike oprobovaniya chernovoy medi na soderzhaniye

blagorodnykh metallov)

PERIODICAL: Tr. i materialy. Ural'skiy n. -i. i proyektn. in-t medn. prom-sti, 1957, Nr 2, pp 355-360

ABSTRACT:

The method of assaying (MA) blister Gu by means of sampling the liquid metal with a special mold-ladle without pouring the metal into a test mold. Several MA of crude CU for noble metal contents are given: Pattern drilling, taking of a liquid test sample from the converter or the laddle of the casting machine, and granulation of liquid metal. The comparative character of the results obtained with different MA is given. It is shown that in taking the test by means of drilling the solid metal, difficulties are encountered owing to the dirt present on the surface of the ingot, the uneven distribution of noble metals in the different sections of the ingot, and the different degrees of brittle-

Card 1/2

ness of the separate structural components of the ingot, resulting

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SOV/137-58-7-16169

On the Method of Noble-metals Assay of Blister Copper

in a different composition of the fine and the coarse fractions of the chips. The latter complicates the preparation of the test sample of chips for the analysis. It is determined that in the sampling of liquid crude Cu a great influence on the validity of the taking of the sample is exerted by the phenomena of liquation. The presence of liquation phenomena during the solidification of blister Cu has a telling effect on the noble-metal content in relation to the spot from which the sample was taken during the casting of Cu, whereas in the granulation of Cu its effect depends on whether the granulated metal is drawn directly from the stream of the metal tested or is granulated from the ladle.

A. M.

1. Copper—Analysis 2. Copper (Liquid) ——Sampling 3. Copper—Test methods

Card 2/2

137-58-6-12023

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 119 (USSR)

Okunev, A.I., Vostryakov, A.A., Aglitskiy, V.A. AUTHOR: Travnikova, L.B.

Fundamental Factors Influencing the Selection of Optimal TITLE:

Composition of Matte and Slag During Processing of Copperzinc Cinders in Reverberatory Furnaces (Osnovnyye faktory,

opredelyayushchiye vybor optimal nogo sostava

shteyna i shlaka pri pererabotke medno-tsinkovykh ogarkov v

otrazhatel'nykh pechakh)

PERIODICAL: Tr. i materialy. Ural'skiy n.-i. i proyektn. in-t medn. prom-

sti, 1957, Nr 2, pp 365-372

ABSTRACT: A brief examination of the fundamental factors that influence

the selection of matte (M) and slag composition during processing of Cu-Zn concentrates in accordance with the following procedure: deep-penetration roasting smelting-fumigation. The selection of an optimum M composition in smelting of roasted Cu-Zn concentrates is dictated by the following basic factors:

1) Variation in distribution of Zn between the slag and the M de-

Card 1/2 pending on the composition of the latter 2) variation in specific

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137-58-6-12023

Fundamental Factors Influencing the Selection of Optimal Composition (cont.)

gravity of the M depending on its composition: 3) a change in the melting point of the M. 4) a change in the fluidity of the M. It is noted that the distribution of Zn is favorably affected by an increase in the Cu content of the M and that it is most desirable that the Cu content be maintained at the highest possible value sup to 60-80%. The specific gravity of liquid M increases continuously with increasing Cu content. M's containing maximum possible amounts of Cu are best soited for efficient separation of M and slag, whereas M's containing 40-45% of Cu are most desirable from the point of view of tusibility of the M. These same M's also exhibit the best fluidity. Taking all factors presented into consideration one may state that the optimal value of Cu content in M's constitutes 45%. In reverberatory-furnace smelting of Cu-Zn concentrates the slags must contain 32-34% (or less) of SiO2 depending on the Zn content.

G.S.

1. Copper ores--Processing 2. Zinc ores--Processing 3. Slags--Composition

4. Slags--Properties

Card 2/2

AGLITSKIY,

AUTHOR: Aglitskiy V.A. et alii.

136-12-15/18

Nikolay Pavlovich Diyev - Obituary

PERIODICAL: Tsvetnyye Metally, 1957, No.12, pp. 75 - 76 (USSR).

ABSTRACT: N.P. Diyev was born in May 1898 and died in October 1957. He graduated in 1925 at the Urals Polysechnical Institute (Uralskiy politekhnicheskiy institut) in the subject of nonferrous metals. From 1937 onwards, he was the head of the nonferrous metals laboratory of the Urals branch of the Ac.Sc. USSR. In 1938, he became Candidate of Technical Sciences, in 1944 -Doctor of Technical Sciences, and from 1946 onwards he became Professor. Diyev was one of the initiators of introducing the process of electrolysis of zinc in the Soviet Union and also of introducing oxygen in the manufacture of non-ferrous metals. Of great importance was his work on analysis of the melt in the refining furnaces of copper-smelting vorks. Under his direction, a number of investigations were carried out on the metallurgy of cobalt and oxidation of sulphides, which formed the basis of improving production technology. He rublished over 160 papers and a monograph on flame-refining of copper. For 23 years, he was a lecturer and chairman of the State Examination Commission in the Sverdlovsk Mining Metallurgical Technicum imeni I.I. Polzunov. He was awarded the Red Star, the Red Labour Banner and a medal for

Cardl/l outstanding services during the Second World War. AVAILABLE: Library of Congress.

MULTISKIY, VITT

137-58-5-8757

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 5 (USSR)

AUTHORS: Okunev, A. I., Aglitskiy, V. A.

TITLE: The Distribution of Certain Rare and Dispersed Elements During

the Process of Concentration of Copper-zinc Ores of the Ural Region (Raspredeleniye nekotorykh redkikh i rasseyannykh elementov v protsesse obogashcheniya ural'skikh medno-tsinkovykh

rud)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 15, pp 14-15

ABSTRACT: In order to establish how the rare and dispersed elements are

distributed in the products of concentration, mean monthly samples, taken from plants of the Ural region, were investigated at the Unipromed' Institute. In the process of concentration, the greater part of the elements S, Fe, Ge, Tl, Se, Te, and others remains in the pyrite concentrates (tailings). Considerable amounts of Cu, Zn, Cd, and other elements are extracted into the same concentrates. For this reason it is essential that pyrite

concentrates be subjected to exhaustive processing methods.

Card 1/1 1. Rare earth elements--Determination 2. Copper-zinc ores--Processing

SMIRNOV, Vasiliy Ivanovich; TIKHONOV, Anatoliy Ivanovich; AGLITSKIY, V.A., red.; IUCHKO, Yu.V., red. izd-va; ZKF, Ye.M., tekhn. red.

[Roasting of copper ores and concentrates; theory and practice]
Obzhig mednykh rud i kontsentratov; teoriia i praktika. Sverdlovsk,
Gos. nauchno-tekhn. izd-ve lit-ry po chernoi i tsvetnoi metallurgii,
Sverdlovskoe otd-nie, 1958. 284 p.

(Copper ores)

136-1-6/20

Babadshan, A.A., Aglitskiy, V.A., Drobchenko, A.T., Garenskikh, A.D., Bulatov, V.D., Kondrashov, D.P., AUTHORS:

Medvedev. V.K. and Milyayev, V.L.

TITLE: Treatment of Polymetallic Sulphide Concentrates in a

Converter by Pyrometallurgical Selection (Pererabotka

polimetallicheskikh sul'fidnykh kontsentratov v konvertere metodom pirometallurgicheskoy selektsii)

PERIODICAL: Tsvetnyye Metally, 1958, No.1, pp. 24 - 30 (USSR).

ABSTRACT: The method described for the treatment of copper-zinc and copper-lead beneficiation products depends on the blowing of these in a converter with a carbon-air mixture after preliminary oxidation. The method was adopted at the Kirovgrad Works after tests in which the following participated:
L.N. Leonov, K.L. Demyak, L.M. Kabanov, Sh.G. Bolgozhin,
P.I. Dochello, G.I. Chermnykh, F.P. Kulenko, N.P. Savchenko,
K.Ya. Shreyber and M.D. Galimov at the Kirovgrad Works and P.S. vlasov, M.S. Khamylov, I.S. Reunov and others at the Karabashskiy Copper Smelting Works (Karabashskiy medenlavil'nyy zavod). After briefly mentioning preliminary experiments in 16- and 40-ton converters, the article goes on to describe the characteristics of the materials used. These consisted of a wide variety of polymetallic materials with a Card 1/3

136-1-6/20 Treatment of Polymetallic Sulphide Concentrates in a Converter by Pyrometallurgical Selection

copper and zinc content of 5 - 25% and a sulphur content of over 30%. Difficulties with coal injection were encountered in tests and care had to be exercised in balancing concentrate feed rate with the blowing rate. During the first (melting) stage, the gas is rich in sulphur trioxide, which is neutralised in the second (oxidation) stage by the zinc dust evolved; for the third (reducing) stage, a bath temperature of 1 350 -1 450 C is recommended. The article discusses the characteristics of the stages and shows contents of sulphur and zinc against time (Figs. 1, 2 and 3). From a joint study of the full-scale process by the Unipromed' Institute and the Kirovgrad Works, the following were among the main conclusions the method is practicable for the treatment of copperzinc and copper-lead-zinc sulphide concentrates to give a dust containing zinc, lead and rare metals; the ratio of previously charged liquid matte to concentrate is 1:2.5-3.0; coal consumption in the reducing period does not exceed 20% of the concentrate weight, melt temperatures should be 1 150 - 1 250 °C in Stage I, 1 200 - 1 400 in II and 1 350 - 1 450 °C in III; Card2/3 complete oxidation is neither practicable nor desirable; the

136-1-6/20

Treatment of Polymetallic Sulphide Concentrates in a Converter by Pyrometallurgical Selection

air/coal ratio should be such as to give 40% CO2 and 60% CO in the gas phase; copper contents in the ferruginous slag are 1.5-3%, hence the slag is treated further; 80% of the zinc is trapped in the dust; 80% of the copper is in the crude copper (98.0-98.5% Cu, 0.07% Ni, 0.004-0.02% Sb, 0.002-0.004% Bi; crude dust yield is 11% of the concentrate weight. The present form of the plant layout is shown (Fig. 4) and the economic advantages of the process for Kirovgrad-region ores are said to have been confirmed by calculations by the Giprotsvetmet and Unipromed organisations. There are 4 figures and 7 references, of which 6 are Russian and 1 English.

ASSOCIATIONS: Unipromed' and Kirovgrad Coppr Smelting Works

(Kirovaradskiy medeplavil'nyy zavod)

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Card 3/3

11. MELLISKIY

136-58-3-7/21

AUTHORS:

Babadzhan, A.A., Aglitskiy, V.A., Shreyber, K.Ya., Galimov, M.D.

and Shirinkin, N.A.

TITLES

System for feeding coal dust into a converter used for pyroselection (Sistema podachi ugolinoy pyli v konverter dlya protsessa piroselektsii)

PERIODICALS

Tsvetnyye Metally, 1958, Nr.3., pp. 38 - 46 (USSR)

ABSTRACT:

The authors describe preliminary investigations at the Kirovgradskiy copper-smelting works before the adoption of its pyroselection method which involves the injection into the converter of coal dust at a fixed rate in relation to the air flow (pressure 0.7 - 1.0 atm. gauge) The initial system involved pressurization of the bunker, but later an atmospheric pressure design, as tested at the Krasnoural'sk coppersmelting works was adopted and incorporated in the full-scale installation commissioned in August 1955. The installation (fig.1.) consists of the following parts, each of which is described and discussed. The pneumatic screw pump has an adjustable speed of revolution and a pump (fig.2.), the latter being based on one made by the Pavshinskiy mechanical works; a KSE-6 compressor supplies compressed air. The air/dust mixture (5-10 kg coal dust per kg air) moves to the converter at 12-15 m/sec. A critical part of the installation is the air and gas distribution system near and in the converter: here a blind-pass collector (fig.4) proposed by N.A. Shirinkin, M.D. Galimov and A.A. Babadzhan, and designed with the

Card 1/2

System for feeding coal dust into a converter used for pyroselection. 136-58-3-7/21

participation of M.D. Galimov, Ye.A. Verkhoturova and B.P. Smorodyakov was found to give even feed to all the tuyeres. An ejector type of tuyere with individual air and air/coal feeds, proposed and designed by M.D. Galimov, A.A. Babadzhan, B.P. Smorodyakov, S.Ya. Musikhin and A.A. Verkholetov was chosen (fig.7). To avoid air losses during tuyere clearing a ring seal designed by S.M. Popov, Engineer, is used. The authors recommend the system described for other processes requiring the injection of coal dusts into a fused mass. There are 7 figures.

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1. Coal dust-Applications 2. Fuels-Control systems

Card 2/2

sov/136-59-4-6/24

Aglitskiy, V.A. and Kroneberg, D.A.

Organisation of Anode Production from Liquid Blister AUTHORS: Copper at Copper Smelting Works in the Sverdlovsk TITLE: Economic Region (Organizatsiya proizvodstva anodov iz zhidkoy chernovoy medi na medeplavil'nykh zavodakh

Sverdlovskogo ekonomicheskogo rayona)

PERIODICAL: Tsvetnyye metally, 1959, Nr 4, pp 26-29 (USSR)

At present blister copper produced in the Sverdlovsk ABSTRACT:

economic region goes for refining at the Pyshminskiy Copper Electrolytic med'elektrolitnyy zavod (Pyshma Works) in the form of ingots, where it is remelted, refined and cast into anodes for electrolysis. Although abroad anodes are often produced at the copper smelters, proposals to do so in the USSR (Ref 2,3) have been opposed because of fears that anode quality would deteriorate with decentralised production. The authors point out that, in view of rising copper production, the Sverdlovsk economic region must consider the adoption of decentralised anode production and point out the comparative economic and technical disadvantages of the existing system. For example, they show that a

Card 1/2

sov/136-59-4-6/24

Organisation of Anode Production from Liquid Blister Copper at Copper Smelting Works in the Sverdlovsk Economic Region

refining furnace working a cold charge has a fuel consumption of about 108 kg/tonne, while the figure for one using molten copper is 59 kg/tonne. The authors suggest that anode production should be organised first at the Krasnoural'skiy medeplavil'nyy zavod (Krasnoural'sk copper smelting works) where no difficulties are anticipated. The Sredneural'skiy (Sredneural'sk) works are also suitable but for the Kirovgradskiy (Kirovgrad) works where space is short and impurities difficult to remove are present in the copper, further planning investigation is necessary. There are 4 references, 3 of which are Soviet and 1 English.

Card 2/2

SOV/136-59-6-17/24 Aglitskiy, V. et al.

Veniamin Alekseyevich Ustalov (1906 - 1959) AUTHOR:

PERIODICAL: Tsvetnyye metally, 1959, Nr 6, pp 86 - 87 (USSR)

ABSTRACT: On March 19, 1959, after a short serious illness, V.A. Ustalov passed away. He was born in 1906 in Cherdyn. In 1930, on completion of the Ural Polytechnical Institute, he played an active part in industry. He was chief engineer of the project for the erection of one of the largest copper works in the Soviet Union, the Sredneural skiy medeplavil nyy kombinat (Sredneuralsk Copper-smelting Combine). From 1942 to 1957, he worked as chief engineer of the experimental institute, Unipromed After reorganisation in 1957, he headed the experimental organisation of the Sverdlovsk Sovnarkhoz. He possessed great creative energy, was a hard-working engineer and a

Card 1/2

Veniamin Alekseyevich Ustalov (1906 - 1959)

SOV/136-59-6-17/24

modest man. He worked ceaselessly for non-ferrous metallurgy in the Urals. There is 1 figure.

Card 2/2

5(4),10(4) SOV/76-33-1-27/45 Devyatykh, G. G., Agliulov, H. Kh., AUTHORS: Prolov. I. A. The Influence of the Velocity of the Distillate Withdrawal on TITLE: the Separating Efficiency of Rectification Columns (Vliyaniye skorosti otbora destillyata na razdelitel'nuyu sposobnost' rektifikatsionnykh kolonn) Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 1, pp 161-164 PERIODICAL: (USSR) In this investigation Cohen's theory (Koen) (Ref 1) is tested ABSTRACT: experimentally. The function between the withdrawal quantity and the concentration of the component under consideration in the withdrawal was investigated, starting from the assumption that the velocity of the substance exchange of the phases depends on the difference of the equilibrium concentration and the current concentration of the component under consideration. The conditions of a rectification column without withdrawal (Fig 1) were explained by using Cohen's material balance equation; likewise, the conditions of a column with withdrawal were explained. The equations deduced were verified at a distillation with various withdrawals of a Card 1/2

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The Influence of the Velocity of the Distillate SOV/76-33-1-27/45 Withdrawal on the Separating Efficiency of Rectification Columns

> benzene-diethane chloride mixture on two rectification columns with the effect of 35 theoretic plates. A description of the column and dimension data are given. The analyses were carried out by means of an Abbé-refractometer. Six series of tests were carried out (Figs 2, 3). The experimental data obtained correspond to those obtained from the equation deduced. Cohen's equation, however, shows lower values of the allowed withdrawal velocity. There are 3 figures and 2 references.

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet

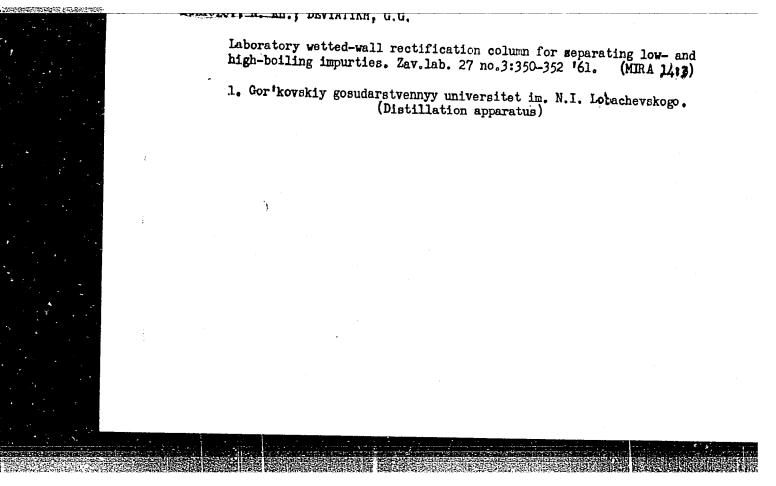
(Gor'kiy State University)

SUBMITTED:

July 4, 1957

Card 2/2

CIA-RDP86-00513R000100520010-2" APPROVED FOR RELEASE: 06/05/2000



FROLOV, T.A.; AGLIDICY, N.Eh.; DEVYATYKH, C.G.

Laboratory wetted glass wall restification column. Zav.lab.
28 no.6:750 152. (MRA 15:5)

1. Gor'kovskiy gesudarstvennyy universitet imeni E.T.
Lobuchevskogo. (Distillation apparatus)

