ALEKSANDROV, G.N., professor; LEVIN, S.I.

Some external signs in determining pathways of suppurative drainage in the foot and ankle joint. Vest.khir. no.4:107-110 '61. (MIRA 14:4)

1. Iz kafedry operativnoy khirurgii (zav. - prof. G.N. Aleksandrov) Samarkandskogo meditsinskogo instituță îm. I.P. Pavlova. (FOOT—ABSCESS) (ANKLE—ABSCESS)

ATEKSANDROV, G.N., prof.; BARAKOV, V.Ye., kand.med.nauk

Changes in the position and skeletopia of the human disphragm due to age. Nauch, trudy SamMi 21:102-107 '62, (MIRA 17:5)

l. Iz kafedry operativnoy khirurgii s tupograficheskoy snatomiyey Samarkandskogo meditsinskogo instituta ikeni Pavlova.

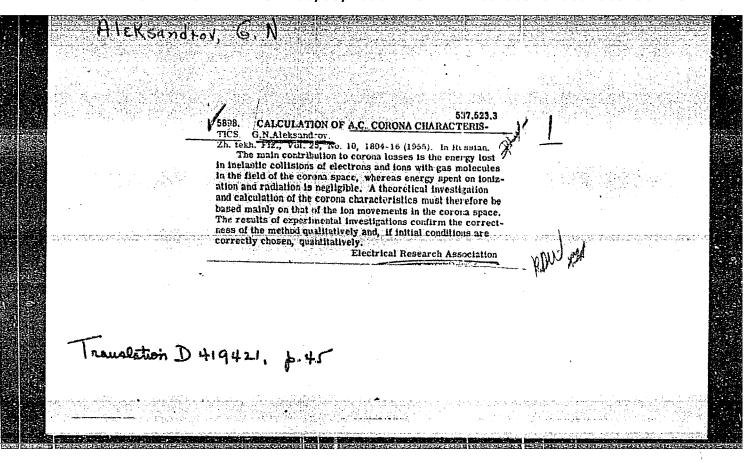
ALEKSANDROV, G.N., prof.; NASEKIN, M.T., assistent

Size of the pelvis in female human fetuses. Med. zhur. Uzb. no.7:60-64 Jl 163. (MIRA 17:2)

1. Iz kafedry operativnoy khirurgii s topograficheskoy anatomiyey Samarkandskogo meditsinskogo instituta imeni I.P. Pavlova.

•	Correct solution of the problem of competence on the part of in legal medicine. Sudmed. ekspert. 3 no.3:3-6 Jl-8 160. (MIRA 13:1. Gosudarstvennyy sovetnik yustitsii 3-go klassa. (VIOLENT DEATHS) (MEDICAL JURISPRUDENCE)	

Corona no.11:	2036-2043	N '54.		ur.tekh.fiz. (MLRA 7:12) (Electricity	
	-			٠	
			•		.e



ALEKSANDROV G.N.

SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1274

AUTHOR

ALEXANDROW, G.N.

TITLE

The Physical Conditions for the Production of a Corona Discharge

in the Case of Alternating Voltage.

PERIODICAL

Zurn. techn.fis, 26, fasc.8, 1769-1781 (1956)

Publ. 8 / 1956 reviewed 9 / 1956

Measuring the initial voltages of the corona discharge of alternating current was carried out with carefully polished Cu-lines of various diameters in a cylinder of 2 m diameter and a working section of 1,2 m length, as well as in a cylinder of 30 cm diameter and the same working section. As capacities C_1 and C_3 , by which no corona discharge is caused, the air intervals: a sphere with 25 cm diameter - plane were used. The voltage at the beginning of the corona discharge was measured by means of an electrostatic voltmeter. The corona current was observed by means of an electron oscillograph. Investigation of the corona discharge at transitions showed that the corona is produced on the occasion of the first half-wave of the transition at a lower voltage if polarity is negative than is the case if polarity is positive. On the other hand, the discharge which began with the voltage half-wave being negative, is continued also with positive half-waves.

In the case of alternating voltage the corona discharge is continued in both voltage half-waves. The numerous works on the positive corona give no analysis of the phenomenon on real conductors the surface of which is considerably less curved. With respect to the negative corona, numerous works show that within the large domain of pressure modification an essential part of the secondary

ALEKSANDROV. G.N.

SUBJECT AUTHOR

USSR / PHYSICS

CARD 1 / 2

PA - 1818

TITLE

ALEKSANDROV, G.N.

The Physical Conditions for the Production of a Corona Discharge

on Smooth Conductors at Constant Voltage.

PERIODICAL

Žurn.techn.fis, 26, fasc.11, 2640-2651 (1956)

Issued: 1 / 1957

At present the conditions for the creation of a corona discharge are formulated as conditions for the reproduction of single avalanches. In the works by LOEB it was, however, shown that, if the gas absorbs the radiation of one single avalanche, this may lead to the creation of several photoelectrons. Any of the photoelectrons can be the starting point for a more or less powerful avalanche. In the present work the ideas developed by LOEB are applied for the clarification of the conditions of a corona discharge. These conditions are for the creation of an intermittent current of the corona discharge, and the conditions for an independent discharge are formulated without taking account of the space discharge caused by the avalanches. Photoionization in the gas volume is the only source of secondary electrons in the case of the positive corona. In the case of a negative corona spatial photoionization of the gas is supplemented by the photoeffect from the surface of the conductor. At first the positive corona is dealt with. All photons are assumed to be formed immediately on the surface of the conductor and to be propagated with the same probability in all directions. Part of the photons is swallowed by the conductor surface. This loss is taken into account as factor g=0.5. The number of photons created by the electron avalanche (the avalanche is propagated from the hemisphere of the radius Q to the

Žurn.techn.fis, <u>26</u>, fasc.11, 2640-2651 (1956) CARD 2 / 2 PA - 1818 conductor) depends on the position of the starting point of the avalanche on this hemisphere. The integral for the full effective photon number is derived, it is adapted to the photon number of the initial avalanche, and, as the expression is too complicated, is put into a more practical form. Next, the condition for the creation of the positive corona is set up in form of an integral and the latter is transformed into an approximated form. Plotted as curves, both, the exact and the approximated formula, show a difference of only 4.6%. - The negative corona is then dealt with. Here it is very complicated to keep the photoelectric processes in the gas volume in evidence, as here the production of photons by the avalanches on their way is much more regular. Again the integral for the full number of photons is derived. Further computation shows that the electron avalanches produced as a result of photonization in the gas volume reproduce only a small part of those photons which are produced by the avalanches propagated on the conductor surface. The conditions for the creation of a negative corona may therefore be approximatively be assumed to be the condition for the reproduction of an individual avalanche which is propagated further from the conductor surface. The integral for the condition of the creation of a negative corona is then derived and put into a more practical form without taking photoionization in the gas volume into account. Also here, like in the case of the positive corona, a small difference of only 5,2% is found to exist between the exact and the approximated formula. In conclusion the amount of the errors is examined, on which occasion it was found that the value of the present work is by no means impaired. INSTITUTION: Polytechnical Institute "M.J.KALININ", Leningrad.

ALEKSANDROV, G.N.

SUBJECT AUTHOR USSR / PHYSICS

CARD 1 / 2

PA - 1817

TITLE

ALEKSANDROV, G.N.

The Initial Stages of the Negative Corona at the Peak.

PERIODICAL Zurn. techn. fis, 26, fasc. 12, 2633-2639 (1956)

Issued: 1 / 1957

The qualitative regions for the considerable current fluctuations of the negative corona are explained. The intermittant character of the current of the negative corona was for the first time found by TRICHEL. However, experiments carried out in LOEB'S laboratory proved that TRICHEL'S statements were without any foundation, and the same may be said of those made by LOEB. The true reason can be found by taking all phenomena within the domain of a corona as a whole. On this occasion it is possible to use the theory developed by TOWNSEND and ROGOWSKI on the formation of the discharge. It results from the following that the cause of the intermittant phenomena of the corons is the accumulation of volume charges of both signs and at different distances from the peak as well as the different velocities with which these charges are removed from the domain in which the corona is formed. LOEB'S calculations confirm the correctness of the above view. This also explains the dependence of the frequency of the sequence of pulses on the curvature of the peak (at a given The current amplitude of the impulse is proportional to the length of its own front. This may serve for an approximated qualitative evaluation of the modification of the amplitude of impulses on the occasion of a change of the curvature of the surface forming a corona. This relation between the

ALEKSANDROV, G. N. Cand Tech Sci -- (diss) "corona Discharge WAKINKINKYMIKNEK Alternating Voltage." Len, 1957. 23 pp with graphs, 21 cm. (Min of Higher Education USSR, Len Polytechnic Inst im M. I. Kalinin), 100 copies (KL, 26-57, 107)

- 46 -

AUTHOR:

14.68日本日曜本

ALEKSANDROV.G.N., TIKHODEE /, N.N.

Concerning a Wrong Hypothesis in the Theory of Corona Discharge (Ob odnoy oshibochnoy gipoteze v teorii korony. Russian).

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 410 - 413 (U.S.S.R.)

Received: 3 / 1957

Reviewed: 4 / 1957.

ABSTRACT:

PERIODICAL:

The article by POPKOV, V.I. in Zhurnal Tekhn. Fiz., 25, 13 is criticized. According to the author's opinion, the statement made here concerning the so-called critical gradients of the corona potential is erreneous. It is shown in what manner PIK, F. obtained the hypothesis on corona discharge at different gradients and in what way a hypothesis was spred which is by no means confirmed. POPKOV followed in the foot steeps of PIK. His quantitative argumentations are not convincing. Also his assumption that all negative ions decay at the ionization boundary is not confirmed and very doubtful. Even if this assumption were accepted, his conclusion that, with the increase of $\frac{U}{u}$, if $E^+_k = E$

 E_k^{\dagger} decreases, cannot agreed with. (U denotes the initial voltage of the bipolar corona). ($E_k^{}$ denotes the critical voltage necessary to maintain the discharge in the case of the presence of the ion-counter-current). It is shown that a steep rise of current ought

Card 1/2

Concerning a wrong Hypothesis in the Theory of Corona Discharge.

to have been observed which, however, neither the authors nor POPKOV were able to detect. (No illustrations).

ASSOCIATION: Politechnic Institute M.I.Kalinin, Leningrad.

SUBMITTED: 27.1.1956

AVAILABLE: Library of Congress.

CIA-RDP86-00513R000100820014-5 "APPROVED FOR RELEASE: 06/05/2000

AUTHOR

ALEKSANDROV, G.N.

PA - 2806

TITLE

Calculation of Characteristics of Corona on Spliced Wires in

Electrotransmission.

(Raschet kharakteristik korony na rasshcheplennykh provodakh

liniy elektroperedachi - Russian)

PERIODICAL

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 4, pp 784-802, (U.S.S.R.)

Received 5/1957

Reviewed 6/1957

ABSTRACT

The period of the transition process investigated is divided into equal intervals. The corona current is assumed to be constant in each of these intervals. Every space charge formed during such an interval was investigated separately. The splicing of the leads makes calculation more complicated as the field voltage is distributed unequally on the conduction surface and the corona discharge is formed at first on the outer lines of the spliced leads. The relation between the amount and the distribution of the space charge in the intermediate space where the corona discharge takes place on the one hand and the magnitude of the charge of the leadson the other hand were determined by means of the method of a mirror image in a circle. The investigations proved the assumption that the space charge range is limited compared to the distances between the leads. On account of the investigations we can follow that the full power is formed within 3-4 half-periods. The distribution of the losses with respect to phrases according to calculation agrees well with that of the measuring experiments. The

Card 1/2

AUTHORS Aleksandrov, G.N. Shneyerson, G.A. 57-8-22/36 . TITLE Characteristics of Corona on split Wires at the Alternating Voltage.. (Kharakteristiki korony na rasshoheplennykh provodakh pri peremennom napryazhenii.) PERIODICAL Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 8, pp. 1811-1817 (USSR) ABSTRACT The conditions for the development of a corona on split wires were investigated and the characteristics of the corona in the case of transition- and steady operation were measured. The measurements of the corona characteristics were carried out in a cylinder of a diameter of 2 m at a wire split into three parts, the components of which are situated at the points of an equilateral triangle. Each of the components of the split wire was formed by a flat copper rod of a diameter of 0,79 cm and a length of 6 m. The authors show that the field voltage at the surface of the conducting cylinder in a field of a homogenously

CARD 1/3

TIETA JANO DE EU CHO.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100820014-5"

charged thread is equal to the double magnitude of the voltage component of the thread-field normal to the cylinder surface, which was measured at the same point when the

cylinder was absent. The authors show that in the case of

Characteristics of Corona on split Wires at the Alternating Voltage.

a change of the ratio d/r_o (d= distance between the axes of the component of split wire, r = radius of the component) the initial corona voltage is practically constant within very wide limits. This fact coincides with the calculation results of initial corona voltages on split wires and single wires. The split wires used in practice have $d/r_0 = 20$. Under these conditions the influence of the neighbouring wires on the field character within the ionization-zone limits is little. Correspondingly the initial corona voltage on the surface of the components of split wires is practically equal to the initial corona voltage on the surface of single wires of the same construction. The oscillograms taken show that the transition process during the corona formation develops within three semi-periods. An essential difference of character of the transition process in the case of positive and negative polarity of the first voltage half-wave was not observed. The magnitude of the initial voltages of the positive and negative corona are practically equal to the voltages

CARD 2/3

57-8-22/36 Characteristics of Corona on split Wires at the Alternating Voltage.

on the occasion of the development of the losses on the corona which were determined with a stabilized corona, and which amounted to 94.5~kV in the case of a single wire

and to 150 kV in the case of a split wire.

(With 2 tables, 5 illustrations and 2 3 lavic references)

ASSOCIATION:

Leningrad Polytechnical Institute.

(Leningradskiy politekhnicheskiy institut.)

SUBMITTED: AVAILABLE:

October 26, 1956. Library of Congress.

CARD 3/3

ALEKSANDROV, G. N.,

"Estimation of Dimensions of Space Charge Region in Corona Gap During Application of Alternating Current," with KHOBERB, V. A.,

p 323.

"Electric Anglog Modelling of A-C Corona Characteristics with the Aid of Electron Tube Circuits," with RYZHOV, G. M., and SHCHERBACHEV, O. V. p 329

"Some Basic Electrostatic Problems in High-Voltage Technique," with GOREV, A. A., (Deceased); LEVINSHTEYN, M. L., FIRYAZEVA, A. I., and MIKHODEYEV, N. N., p 578.

High Voltage Technique, Moscow, Gosenergoizdat, 1958, 664pp (Series: Its Trudy, No. 195)

This collection of articles sums up the principal results of investigations end studies made by Prof. A. A. Gorev, Dr. Tech. Sci., and his staff in the field of high voltage phenomena and techniques at LPI (Leningrad Polytech Inst.) It was at this institute that Prof. Govev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of Min of Higher Education, the High-Voltage Lab. at LPI was named after A. A Gorev.

AUTHOR:

Aleksandrov, G. N.

SOV/105-58-9-4/34

TITLE:

A Transformed Method of Polar Coordinate Presentation and Its Application to Solving Two-Dimensional Electrostatic Problems (Preobrazovannyy metod izobrazheniya v kruse i yego ispol'zovaniye pri reshenii ploskikh elektrostaticheskikh

zadach)

PERIODICAL: Elektrichestvo, 1958, Nr 9, pp 20 - 23 (USSR)

ABSTRACT:

According to the method of polar coordinate presentation (inversion) the problem of finding the field generated by a charge distributed linearly along the axis of a conducting cylinder can be reduced to the problem of finding the field of three linear charges without a cylinder. When an insulated conducting cylinder is introduced into an arbitrary homogeneous field the field component normal to the cylinder surface doubles. This well known fact can be considered a special case of the doubling of the normal field component on the surface of a cylinder located in an arbitrary homogeneous field. Formula (4) for the field strength on the surface of an insulated conducting cylinder is transformed into a more practical form.

Card 1/4

A Transformed Method of Polar Coordinate Presentation SOV/105-58-9-4/34 and Its Application to Solving Two-Dimensional Electrostatic Problems

If two charged conductors are distributed symmetrically with respect to the angle reference axis passing through the center of the cylinder the field strength at the cylinder surface is determined by formula (6). The essential nature of the method of transformation of polar coordinate presentation advanced in this paper consists basically of a simplification of the method of computation, which is achieved by formulae (5) and (6). This method makes it possible to carry out a simple estimation of the accuracy of the approximative computations. It is shown that the field strength on the surface of a conducting cylinder in a system of an arbitrary number of parallel, arbitrarily charged cylinders can be computed with an accuracy to second order terms inclusively, starting from the "zero" system of computation of the charges by means of formulae (5) and (6). In this investigation R denotes the radius of the cylinder under consideration, a - the distance between the axes of the cylinder under investigation and of the next cylinder.

Card 2/4

A Transformed Method of Polar Coordinate Presentation SOV/105-58-9-4/34 and Its Application to Solving Two-Dimensional Electrostatic Problems

The "zero" system of charges is that which is obtained by transferring the charge of each cylinder to its axis. This circumstance considerably facilitates the computation of the field strength at the surface of stranded wires, which is a common case in practice. The field strength at an arbitrary point of the conjuctor denoted by the subscript s with the radius R can be determined according to formula (11). The method presented in this paper greatly simplifies the computation of field distributions on the surface of stranded wires. There are 5 figures and 4 references, 4 of which are Soviet.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. Kalinina (Leningrad Polytechnical Institute imeni Kalinin)

SUBMITTED: May 4, 1958

Card 3/4

8(0)

SOV/112-59-4-6902

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 70 (USSR)

AUTHOR: Aleksandrov, G. N., and Khoberg, V. A.

TITLE: Estimation of the Space-Charge Region in an AC Corona-Displaying Gap PERIODICAL: Tr. Leningr. politekhnich. in-ta, 1958, Nr 195, pp 323-328

ABSTRACT: The space-charge volume of a corona-displaying gap depends on the amplitude and frequency of the applied voltage and on the corona loss.

Barriers set within the corona gap limit the space-charge region and lessen the losses. The space-charge region around a wire can be found by the deviation of P = f(U) characteristic from that pertaining to a free gap.

Measurements were made in a cylinder of 2 m diameter and a wire of 0.37 cm diameter, at 25 and 50 cps, and with barriers of 15-50 cm. Formulae have been developed for the radius of the space-charge region and for the voltage on the wire, which permit evaluating the space-charge region around the wire and selecting the research cylinder size so that the measurements would not be distorted by a through convection current.

V.A.Kh.

Card 1/1

8(0)

SOV/112-59-4-6901

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 70 (USSR)

AUTHOR: Aleksandrov, G. N., Ryzhov, G. M., and Shcherbachev, O. V.

TITLE: Simulating the AC Corona Characteristics by Lamp Schemes

PERIODICAL: Tr. Leningr. politekhnich. in-ta, 1958, Nr 195, pp 329-341

ABSTRACT: Several versions of lamp models representing the corona dynamic characteristic Q = f(U) on the basis of a similar wire characteristic are analyzed. A 2-lamp model with two sources of opposing voltages, with a capacitor in series with one of the lamps, and with a capacitor and resistor in series with the other, is examined in detail. This model has the following peculiarities: (1) extinction of one lamp after the passage of the voltage maximum; (2) the voltage change, from the moment of that extinction to the moment of lighting up of the second lamp, exceeds 2U_C (where U_C is the critical corona voltage), the phenomenon similar to the corona on the line. Data is offered for calculating the above models.

N.N.T.

Card 1/1

GORDW, A.A. [deceaned]; ALEKSAIDROV, C.N.; LEWINSHTEYN, M.L.; PIRYAZEV,
A.I.; TIKHODEYEV, H.N.

Some basic electrostatic problems of high-voltage engineering.
Trudy LFI no.195:578-619 '58. (MIRA 11:10)

(Electric engineering---Problems, exercises, etc.)

ALEKSANDROV, G.N., kand.tekhn.nauk; SHCHERRAKOVA, G.A., i.nzh.

Characteristics of the corona of electric transmission lines with bundle conductors at simusoidal voltage. Izv.vys.ucheb. zav.; energ. 2 no.9:24-30 S 159. (MIRA 13:2)

 Leningradskiy politekhnicheskiy institut im. H.I.Kalinina. (Electric lines) (Corona (Electricity)

ALEKSANDROV, G.N.		
Granowity, V.L., Luk'yanov, S.fu., Spiral, G.v. and Sirotenke, I.d. Sirotenke, I.d. Electronica Electronic	A.S. SODOLMER and B.N. A. M. A. A. B.	page of including accused a lot of interest and designating that the opinion that a statement and the control of the opinion that of the same order; the take a loude of the same order; the take of the control of the
24,2120 AUTHORS: TITLE: PERIODICA ABSTEACT:	Card 7	4 5 4 5 6

24(3) AUTHOR:

Aleksandrov, G. N.

SOV/48-23-8-12/25

TITLE:

Elementary Processes in the Ionization Zone of Corona-produc-

ing Conductor at Atmospheric Pressure

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 8, pp 989-994 (USSR)

ABSTRACT:

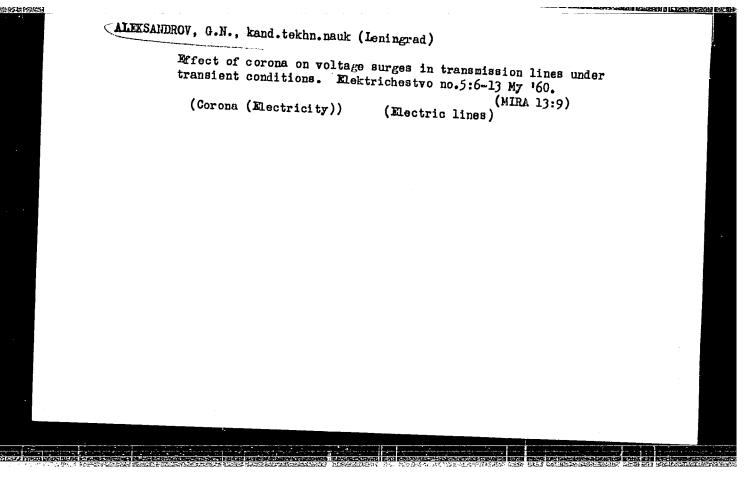
The present paper deals with the ionization zone in the corona space in order to explain the field intensity at the surface of corona-producing conductors. The formation of corona discharge in an unsteady field is described, and the existence of two sections in the discharge space is stated. The volume ionization by unipolar positive corona is investigated, and it is shown that ionization proceeds in an avalanchelike manner. It is pointed out that the negative corona is unsteady. Photoelectric processes are of little effect and therefore neglected. For both kinds of the corona, equations (1) and (2) are given for the calculation of ionization avalanches, and some results are added. Further, the bipolar discharge is analyzed, and the condition for the formation of a positive corona is given by equation (4) for bipolar procedure. The influence of

Card 1/2

SOV/48-23-8-12/25 Elementary Processes in the Ionization Zone of Corona-producing Conductor at Atmospheric Pressure

> the ratio of positive to negative ions, their movement, and their recombination are discussed. In the following, the formation of a bipolar corona by direct- and alternating voltage is discussed. Results of measurement are given. The diagram of figure 1 shows the relationship between the direct-current component of the corona in a conductor and the voltage amplitude with industrial frequency. The relationship is described for a conductor with blank surface, as well as for a conductor surface covered by a soap film. The conductor is 0.588 mm thick. The volt-ampere characteristics of a unipolar positive corona of the conductor with and without soap film is shown in figure 2. No effect of the soap film was found. The voltampere characteristics of a negative corona, however, shows an effect of the soap film as represented by figure 3. Finally, the relation of the critical voltage of a positive corona at a conductor in reference to the ionic ratio is calculated by equation (4). The result is shown in figure 4. There are 4 figures and 11 references, 8 of which are Soviet.

Card 2/2



ALEKSANDROV, G.N., kand.tekhn.nauk; SHCHERBAKOVA, G.A., inzh.

Generalizing the results of mmerical calculations of corona characteristics on bundls conductors. Izv.vys.ucheb.zav.; energ. 3 no.1:11-18 Ja '60. (MIRA 13:1)

1. Leningradskiy politekhnicheskiy institut im. M.I.Kalinina. (Corona(Electricity)) (Electric lines)

21543

6.9419 (also 1144)

\$/057/61/031/004/009/018

AUTHORS:

Aleksandrov, G. N. and Aleksandrova, N. P.

TITLE:

Initial and critical field strengths on the surface of

corona-forming conductors

Zhurnal tekhnicheskoy fiziki, v. 31, no. 4, 1961, 450-458 PERIODICAL:

TEXT: The present paper deals with the determination of the actual values of field strength on the surface of corona-forming conductors. This problem has been treated on the strength of modern conceptions of the physical nature of corona discharge. A corona shows either unipolar behavior at constant voltage in all unipolar systems (and at varying voltage and short discharge intervals) or bipolar behavior at varying voltage and a sufficiently long discharge interval, but also at constant voltage in the formation of a corona on parallel, oppositely charged conductors. A negative corona never shows a critical behavior. N. A. Kaptsov was the first to study the role of negative ions in a bipolar corona, but the authors believe that his paper contains essential errors. They also refer to an article of L. Leb and F. Pik (Dielektriche-

Card 1/8

2151;3 \$/057/61/031/004/009/018 B125/B205

Initial and critical field ...

skiye yavleniya v tekhnike vysokikh napryazheniy, Gosenergoizdat, M.-L., 1934) on the voltage observed during the occurrence of a corona discharge. According to F. Pik (see above) there is a standard interrelation between the voltage and the losses due to the corona. Though this interrelation has an exponential character, the exponent n in the formula $P = A(U-U_{cr})^n$ (U - initial corona voltage) depends on the diameter and shape of the conductors. The values of this interrelation for several conductors are summarized in Table 1. In the following papers, use has been made of the method of self-maintaining forced rectification of the initial parts of the corona characteristics. Reference is made to papers by F. Pik, V. I. Popkov, and L. E. Tsyrlin. The measuring technique has now been improved by the authors. The current passing through the corona-forming part of the conductor at varying voltage was measured by a bridge circuit. The voltage of the beginning positive corona was ascertained on the screen of the oscilloscope, and the voltage was gradually increased for the purpose. The voltage of the negative corona could not be measured at constant voltage. Initial and critical voltages were measured with conductors of 0.196, 0.596, 0.89, 1.197, 1.792, 2.01, 2.98 cm in a cylinder Card 2/g

Initial and critical field ...

S/057/61/031/004/009/018 B125/B205

2 cm in diameter. The cylinder consisted of five insulated sections. Application of alternating voltage to smooth conductors having a pure surface produced a corona discharge when the voltage was gradually increased; the discharge vanished at different voltages when the voltage was lowered. This difference amounted to 2-3%. Unclean conductors do not exhibit this phenomenon. The initial corona voltages calculated from the voltage of the corona discharge (with increasing voltage) are listed in Table 2 which also contains the critical field strength of the a-c corona calculated from the voltage of the vanishing discharge as well as the maximum deviations from the mean values. The results of measurement are easily reproducible. Table 2 further contains the calculated critical field strength of the corona. In Fig. 3, the data of the present paper are compared with those of F. Pik. In the authors' view, the formula of A. M. Zalesskiy for the dependence of the initial field strengths of the corona upon the radius of the conductor is correct. According to Table 2, the dependences of the initial and the critical field strengths of an a-c corona upon the radius of the conductor are given by

Card 3/g

Initial and critical field ...

S/057/61/031/004/009/018 B125/B205

$$E_{\rm n.} = 18.8 \left(1 + \frac{1.07}{r_{\rm 0.3}^{0.3}}\right) [\kappa_{\rm B/cM}],$$
 (5)

$$E_{\text{m.}} = 18.8 \left(1 + \frac{1.07}{r_0^{0.3}}\right) [\kappa_B/c_{\text{M}}], \quad (5)$$

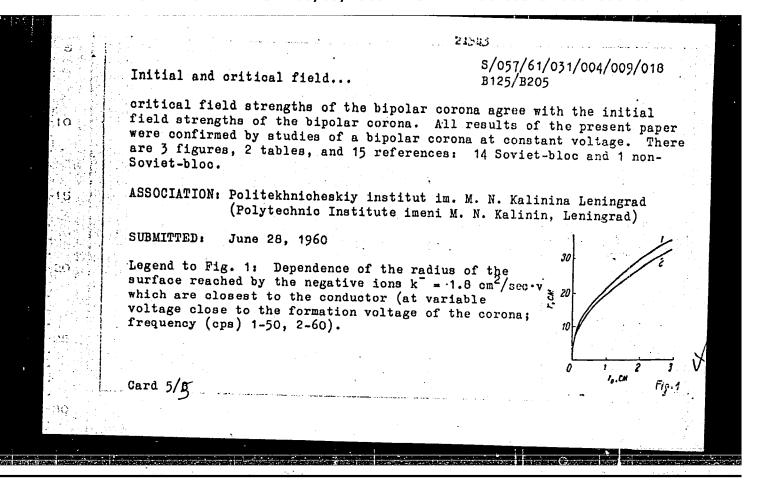
$$E_{\text{m.6.}} = 18.3 \left(1 + \frac{1.07}{r_0^{0.3}}\right) [\kappa_B/c_{\text{M}}], \quad (6)$$

Thus, the voltage at which the corona becomes bipolar (on gradual increase of voltage) is determined by the instant at which the initial field strength of the negative corona is reached on the surface of the negatively charged conductor. On account of $E_{cr}^+ < E_{cr}^-$, the above

formulated condition for the occurrence of bipolar behavior of the corona is not only necessary but also sufficient. In addition,

$$\frac{E_{u.}^{+} - E_{u.}^{+} \left(\frac{n^{-}}{n^{+}} = 0.3\right)}{E_{u.}^{+} - E_{u.}^{+} \left(\frac{n^{-}}{n^{+}} = 1\right)} = 0.55,$$
 holds.

If the voltages are enhanced, the critical field strengths of the positive corona practically agree with the measured values of the critical field strengths E in the case of bipolar behavior, and the



ALEKSANDROV, G.N., kand.tekhn.nauk; KIZEVETTER, V.Ye., inzh.

Development of a discharge along the conducting surface of the high-voltage insulation of electrical networks. Izv.vys.ucheb. zav.; energ. 5 no.5:20-27 My '62. (MIRA 15:5)

l. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy tekhniki vysokikh napryazheniy.

(Electric power distribution)

(Electric insulators and insulation)

AIEKSANDROV, G.N., kand.tekhn.nauk; IVANOV, V.L., inzh.

Study of the electrical strength of air gaps and suspension injulators in the presence of internal overvoltages. Elektrichestvo no.9:33-38 S '62. (MIRA 15:9)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina.

(Electric lines—Overhead)
(Electric insulators and insulation)

ALEKSANDROV, G.N. (Leningrad); KOSTENKO, M.V. (Leningrad); POLOVOY, I.F. (Leningrad)

Problem concerning the prospective voltage step-up of overhead electric power transmission lines. Elektrichestvo no.11:20-25 N 162. (MIRA 15:11)

1. Chlen-korrespondent AN SSSR (for Kostenko).
(Electric lines--Overhead) (Electric power distribution)

ALEKSANDROV, G.N., kand.tekhn.nauk

Methodology for choosing the insulation of an electric power transmission line with consideration of operational reliability taking into account the action of internal overvoltages. Izv. vys. ucheb. zav.; energ. 5 no.7:16-24 Jl '62. (MIRA 15:7)

l. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy tekhniki vysokikh napryazheniy. (Electric power distribution) (Electric lines--Overhead)

ALEKSANDROV, G.N., kand.tekhn.nauk (Leningrad); POLOVOY, I.F. (Leningrad)

Decrease of the insulation disruptive voltage in electric power systems during certain kinds of switching surges. Elektrichestvo no.7:86-87 Jl '63. (MIRA 16:9) (Electric insulators and insulation)

ALEKSANDROV, G.N., kand. tekhn. nauk, dotsent; OKOROKOV, V.R., inzh.

Statistical method for determining the dimensions of extrahigh voltage power transmission line supports taking into account the operating voltage. Izv. vys. ucheb. zav.; energ. 6 no.11:1-7 N'63. (MIRA 17:2)

1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina. Predstavlena kafedroy tekhniki vysokikh napryazheniy.

Nature of pulses of a negative corona current. Zhur.tekh.fiz. 33 nc.2: 223-230 F *63. (Mina 16:5) 1. Leningradskiy politekhnicheskiy institut imeni Kalinina. (Corona (Electricity))

AKOPYAN, A. A.; ALEKSANDROV, G. N.; YEMELYANOV, N. P.; LEVITOV, V. I.; MIROLYUBOV, A. V. NAYASHKOV, I. S.; PANOV, A. V.; POPKOV, V. I.; ROKOTYAN, S. S.; SOKOLOV, N. N.; TIKHODEYEV, N. N.

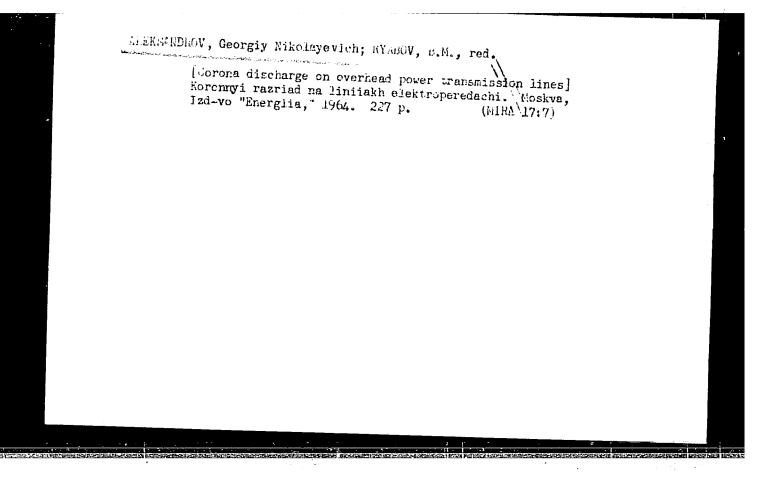
"The 750 kV Experimental Commercial Transmission Line Konakovo-Moscow."

report submitted for Intl Conf on Large Electric Systems, 20th Biennial Session, Paris, 1-10 Jun 64.

ALEKSANDROV, G.N., kand. tekhn. nauk; KOMEL'KOV, V.S., doktor tekhn. nauk

[Discharge potentials of long air gaps and suspension insulators, 1961-1963] Razriadnye napriazheniia dlinnykh vozdushnykh promezhutkov i girliand izoliatorov 1961-1963. Moskva, 1964. 118 p. (MIRA 18:7)

1. Akademiya mauk SSSR. Institut nauchnoy informatsii.



ALEKSANDROV, G.N., kand. tekhn. nauk; IVANOV, V.L., inzh.

Dependence of the electrical strength of long air gaps on the frequency of the oscillatory voltage. Elektrichestwo no.6: 44-49 Je 64 (MIRA 17:7)

1. Leningradskiy politekhmicheskiy institut.

ALEKSANDROV, G.N., kand.tekhn.nauk (Leningrad); KIZEVETTER, V.Ye., inzh. (Leningrad); RUDAKOVA, V.M., inzh. (Leningrad); TUSHNOV, A.N. (Leningrad)

A.c. flashover voltages of long air clearances and insulator chains. Elektrichestvo no.5:27-32 My '62. (MIRA 15:5)

(Electric lines---Poles and towers)

ALEKSANDROV, G.N., kand.tekhn.nauk, dotsent; POLOVOY, I.F., kand.tekhn.

Increase in the operating voltage and choice of wires for extra high voltage transmission lines. Izv. vys. ucheb. zav.; energ. 7 no. 4:18-22 Ap '64. (MIRA 17:5)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy tekhniki vysokikh napryazheniy.

ALEKSANDROV, G.N., kand. tekhn. nauk, dotsent

New trends in the development of high-voltage technology.

Izv.vys. ucheb. zav.; energ. 7 no.7:1-6 Jl '64 (MIRA 17:8)

1. Leningradskiy politekhmicheskiy institut imeni M.I.

Kalinina. Predstavleno kafedroy tekhmiki vysokikh naprya-zheniy.

ALEKSANDROV, G.N., kand.tekhn.nauk; KIZEVETTER, V.Ye., inzh.

Statistical studies of the electrical strength of contaminated insulation. Elek. sta. 35 no. 4:70-73 Ap '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100820014-5"

ALEKSANDROV, G.N., kand. tekhn. nauk; IVANOV, V.L., inzh.; REDKOV, V.P., inzh.

Electrical strength of an air gap between the wire of a superhigh voltage transmission line and ground in the presence of internal overvoltages. Elektrichestvo no.4:20-24 Ap '65.

(MIRA 18:5)

1. Leningradskiy politekhnicheskiy institut.

ALEKSANDROV, G.N., kand.tekhn.nauk, dotsent

Do all developments in high-tension engineering lead to direct current? Isv.vys.ucheb.zav.; energ. 8 no.3:112-114 Mr '65.

(MIRA 18:4)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina.

ALEKSANDROV, G.N., kend. tekhn. nauk, dotsent; KALININ, N.D., inzh.

Wet dischargin, of potential insulator chains during internal overvoltages. Izv. vys. ucheb. zav.; energ. 3 no.5:6-12 My '65. (MIRA 18:6)

l. Leningradskiy politekhnicheskiy institut imeni Kalinina. Predstavlena kafedroy vysokikh napryazheniy.

ALEKSANDROV, G.N., kand. tekhn. nauk, dotsent

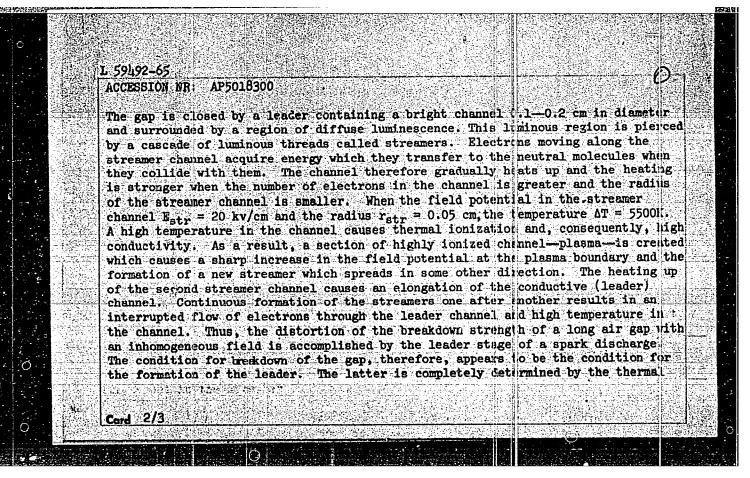
Critical gradient of positive corona. Izv. vys. ucheb. zav.; energ. 8 no.6:110-111 Je '65. (MIRA 18:7)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina.

L 51971=65 EWT(1)/EWT(m)/EWG(m)/REC(t)/T Pz=6 T4P(c) RWH/AT ACCESSION NR: AP5012052 UR/00 7/65/035/005/0875/0882
AUTHOR: Aleksandrov, G.N.
TITLE: On the change in the discharge mechanism in air a atmospheric pressure when the gap length between plane electrodes is increased
SOURCE: Zhurnal teklinicheskoy fiziki, vol.35, no. 5, 1965 875-882
TOPIC TAGS: spark discharge, air, uniform electric field, avalanche, streamer, space charge, <u>photoelectric effect</u>
ABSTRACT: The breakdown of air at atmospheric pressure in a uniform electric field and the formation of a self-sustaining discharge is discussed with particular reference to the role of photoelectric processes. The purpose of the discussion is
to elucidate the transition from the classical Townsend mechanism to the streamer formation mechanism. Calculations of the effect on the development of the discharge of photoelectrons released from the cathode by photoins produced in the primary avalanche are compared with experimental data of H Ritz (Arch. Elektrotechn., 26, 319, 1932) and others. It is concluded that a gap lengths up to 2 cm the distortion of the field by the space charge of the initial avalanche in
Card 1/2

L 51971-65 ACCESSION NR	a: AP5012052		
explained wi charge of the formation. not be corrected charge. "In	th the aid of the photone initial avalanche st In the longer gaps the citly estimated without a conclusion, I conside	total number of electrication to the	o ger gaps the space ld and leads to streamer os in an avalanche can- d distortion by the space o express my gratitude to
during the I and 1 table.	performance of this wor	rk." Orig. art. has: 1	3 formulas, 8 figures,
during the pand 1 table. ASSOCIATION:	performance of this wor	rk." Orig. art. has: l Skinicheskiy institut in	3 formulas, 8 figures,
and 1 table. ASSOCIATION: (Leningrad I	performance of this wor Leningradskiy polite	rk." Orig. art. has: l Skinicheskiy institut in	3 formulas, 8 figures,
and 1 table. ASSOCIATION: (Leningrad I	Leningradskiy polite Polytechnic Institute)	k," Orig. art. has: l	3 formulas, 8 figures, M.I.Kalinina
during the pand 1 table. ASSOCIATION: (Leningrad I	Leningradskiy polite Polytechnic Institute)	ek." Orig. art. has: lekhnicheskiy institut in	3 formulas, 8 figures, M.I.Kalinina

	L 59492-65 EPA(a)-://EPA(w)-2/EMT(1)/EWA(m)-2 ACCESSION NR: AP5018300	UR/00 7/65/035/007/1225/1229
	AUTHOR: Aleksandrov, G. N.	537.514 //5
	TITLE: The transition mechanism of a corona dischallong air gaps	arge int) a spark discharge in
	SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no.	7, 1965, 1225–1229
100	ABSTRACT: The formation of a spark channel in longeneous field has been investigated. Such formation and "streamer" corona discharges. In both cases the electron avalanches. Both forms of corona discharge is a cold discharge, while the channel of heated. Thus, a thermal ionization occurs which dof the channel. The transition from corona to spationed by the air heating up to a temperature suffither gas. A phenomenological picture of a discharge	g air ga s with a sharply inhomo- ons are preceded by "avalanch" he ionization is accomplished by charge require the presence of a kv/cm and stronger). Corona the spart discharge is highly stermines the high conductivity ark discharge is therefore conli- cient for thermal ionization of
	Card 1/3	



	L92-65 SSION NR: /AP5018300 esses in the streamer of	nannel: as proved by an	investigation of the speci	
the t	streamer channel radiat: has: 3 formulas and 3	ion in the air along the	surface of a dielectric.	Orig. [JA]
	CIATION: Leningradakiy Polytechnic Institute)		tut im. M. I. Kalinina ()	enin-
SUBM	ITED: 020ct64	ENCL: 00	SUB CODE: EM, ME	
no r	ef 80 V 1 010	OTHER: 002	ATI) PR 888 (4059	
	E.			
	٢ <u>٢</u> 3/3			

SMIRNOV, V.S.; KOSTENKO, M.P.; NEYMAN, L.R.; KOSTENKO, M.V.; DOMANSKIY,
B.I.; ZALESSKIY, A.M.; USOY, S.V.; AYZENBERG, E.L.; DUBINSKIY,
L.A.; ALEKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; LEVINSHTEYN,
M.L.; MIKRITICHEV, A.A.; MIKHAYLOVA, V.I.; RUZIN, Ya.L.; STEFANOV,
K.S.; KHOBERG, V.A.; SHCHERBACHEV, O.V.

M.D. Kamenski1; on his 80th birthday. Izv. vys. ucheb. zav.;
energ. 8 no.7:130-131 J1 '65. (MIRA 18:9)

MEDVEDEV, S.K., inzh.; KOSTENKO, M.V., prof.; ALEKSANDROV, G.N., kand.tekhn. nauk, dotsent; KUCHINSKIY, G.S., kand.tekhn.nauk, dotsent; ZALESSKIY, A.M., prof.

Some critical remarks on IU.G.Esikov's article "Distribution of the intensity of an electric field in a cylindrical condenser." Elektrichestvo no.10:89-92 0 '65. (MIRA 18:10)

1. Chlen-korrespondent AN SSSR (for Kostenko).

ALEKSANDHOV, C.N., kand.tekhn.nauk; KIZEVETTER, V.Ye., inzh.

Study of the electrical strength of long suspension insulator chains at ordinary potentials. Elektrotekhnika 36 nc.10:55-58 (MURA 18:10)

ALEKSANDROV, G.N., kand. tekhn. nauk; GU LO-GUAN [Ku Lo-kuang], inzh.

Electrical strength of power line insulators with different degrees of contamination. Elektrotekhnika 36 no.4:38-41
Ap '65.

(MIRA 18:5)

ALEKSANDROY, G.N. (Leningrad); OKOROKOV, V.R. (Leningrad).

Method for selecting the optimum length of the crossarm of a 750 kv. overhead power transmission line tower. Izv. AN SSSR. Energ. i transp. no.3:68-76 My-Je '65.

(MIRA 18:12)

1. Submitted January 18, 1965.

ALEKSANDROV, G.N., kand. tekhn. nauk, dotsent

Concerning N.N. Krachkovskii's remarks. Izv. vys. ucheb. zav.; energ. 9 no.1:102-104 Ja '66. (MIRA 19:1)

1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina. Submitted June 29, 1965.

원인 2018년 1일 1일 전문 1일 등록 1일	
1. 22281-66 EWT(1)/FCC GW	
ACC NR: AR6005187 SOURCE CODE: UR/0058/65/000/009/G017/G017	
ATHRIODES Alakandrow C. N. s. Dudakawa M. M.	
AUTHORS: Aleksandrov, G. N.; Rudakova, V. M.	
TITLE: Investigation of the influence of the parameters of atmospheric air on the discharge voltages of long air gaps ${\cal B}$	
SOURCE: Ref. zh. Fizika, Abs. 9G144	
REF. SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. ML., Energiya, 1964, 44-49	
TOPIC TAGS: gas discharge, electric discharge, discharge gap, atmospheric density, atmospheric humidity, temperature dependence	
TRANSLATION: Results are reported of in investigation of the influence of natural oscillations of the parameters of atmospheric air on the discharge voltages of rod-plane gaps of length 1, 2, 3, 5,	
and 7 meters. The measured discharge oltages are practically independent of the air density and of the bsolute humidity (this being attributed to the correlated change in the temperature and humidity of air under natural conditions), but vary with changing atmospheric	
Card1/2	2

oressure. With increasing length of the gap, the dependence of the discharge voltages on the atmospheric pressure decreases. The voltage referred to normal pressure was used to deduce the dependence of the discharge voltages on the temperature and humidity of the air. The elimination of the dependence of the discharge voltages on the numidity has made it possible to deduce the dependence of the discharge voltage on the air density. V. Ch.
SUB CODE: 20
상에 되는 사람들이 되었다. 그리고 있는 사람들은 사람들이 되었다. 그는 사람들은 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 일반에 되는 사람들이 되었다. 사람들은 사람들은 사람들이 되었다. 사람들이 사람들이 사람들이 사람들이 되었다.
마다 하나 하는 것이 되는 것이 가장 마음을 하는데 되는데 되었다. 그런데 되는데 되는데 하게 되었다. 12
수는 사람들이 되었다. 그는 사람들은 사람들은 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 사람들이 그 사람들이 되었다. 이 사람들은 사람들은 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다.
마르크 등 전 경기를 보고 있는데 그 사람이 가능하는데 보고 있다. 그는 그리고 있는데 이번 보고 있는데 보고 있는데 그리고 있다. 한 번째 하는데 보고 있는데 그리고 있는데 살아왔다면 하는데 하는데 하는데 하는데 하는데 그리고 있다.
Card 2/2 mat

L 22149_66

ACC NR: AP6012968

SOURCE CODE: UR/0143/65/000/007/0130/0131

AUTHOR: Smirnov, V. S.; Kostenko, M. P.; Neyman, L. R.; Kostenko, M. V.;

Domanskiy, B. I.; Zalesskiy, A. M.; Usov, S. V.; Ayzenberg, B. L.; Dubinskiy, L. A.;

Aleksandrov, G. N.; Gribov, A. N.; Gruzdev, I. A.; Levinshteyn, M. L.;

Mikirtichev, A. A.; Mikhaylova, V. I.; Ruzin, Ya. L.; Stefanov, K. S.;

Khoberg, V. A.; Shcherbachev, O. V.

ORG: none

TITLE: Honoring the 80th birthday of Mikhail Davidovich Kamonskiy

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 7, 1965, 130-131

TOPIC TAGS: electric power engineering, electric engineering personnel, hydroelectric power plant, thermoelectric power plant

ABSTRACT: On 19 April 1965 Prof. Dr. Techn. Sci. Mikhail Davidovich Kamenskiy celebrated his 80th birthday and the 55th anniversary of his active work as a power expert. Mikhail Davidovich
is a 1909 graduate of the Petersburg Polytechnic Institute - since
his graduation he has been associated with this institute, now
renamed Leningrad Polytechnic Institute, as an instructor. He is
a major scientist and specialist in electric power grids and systems. He has been a major contributor to the establishment of
the Leningrad Power Grid and various large thermal and hydro-

Card 1/2

L 22149-66

ACC NR: AP6012968

electric power stations and an active participant in the design and construction of high- and low-voltage power systems in many cities of the Soviet Union. During the Siege of Leningrad in World War II he was a member of the Municipal Party Defense Committee. Since the war Mikhail Davidovich has been head of the Chair of Electric Power Grids and Systems at the Leningrad Polytechnic Institute and has been working on the methods of calculating the economic regimes of power system operation and on the problems of the present-day development of urban power systems.

M.D. Kamenskiy has published more than 80 works, including both original studies as well as textbooks that are popular in the Soviet Union and abroad. He is the chairman of the Section on Power Systems and Grids under the Leningrad Division of the Scientific and Technical Division of the Power Industry and organizer of and participant in many scientific-technical conferences and meetings. His merits as an educator of a new school of Soviet power engineers are equally large. Orig. art. has: 1 figure. [JFRS]

SUB CODE: 10 / SUBM DATE: none

Cord 2/2dla

ACC NR. AT6022762 (A) SOURCE CODE: UR/2563/65/000/258/0026/0034	:
AUTHOR: Aleksandrov, G. N.; Kalinin, N. D.	
ORG: none	÷
TITLE: Investigation of the electric strength of insulator strings under rain and switching-surge conditions	
SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 258, 1965. Vysokovol'tnaya izolyatsiya liniy i apparatov (High voltage insulation of lines and apparatus), 26-34	
TOPIC TAGS: electric insulator, insulator electric strength	
ABSTRACT: The experimentally obtained 50% wet-flashover voltages for a type PM-4,5 Soviet-made 7-insulator string are shown as functions of 0-3-mm/min spraying (artificial rain). At low rain intensities, the flashover voltage is higher (by 10-15%) with negative polarity than with positive; at high rain intensities, the flashover polarity becomes unimportant. It was found that, with dry or slightly-wet insulators, the flashover occurs during the pulse rise or near its peak (the flashover	
Card 1/2	

ACC NR: AT6022762

develops in air); under heavy-rain conditions, the flashovers happen after the pulse peak, the arc channel slips over the insulator surface, and the leakage current becomes relatively large. The above experimental data was used for calculating the probability of 7xPM-4.5-insulator string flashover under rain conditions in the Leningrad region. Average duration of all rains was assumed to be 450 hrs per year; rain-distribution densities were taken from published sources. The probability of the above string flashover, for various rain intensity, is tabulated. To ensure reliable operation of insulator strings under switching-surge conditions, the effect of rains should be taken into account. Orig. art. has: 7 figures, 4 formulas, and 5 tables.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 001

Card 2/2

ACC NR: AP7011363

SOURCE CODE: UR/0105/67/000/001/0012/0016

AUTHOR: Aleksandrov, G. N. (Candidate of technical sciences; Leningrad); Lisochkina, T. V. (Engineer; Leningrad)

ORG: none

TITLE: Economic effectiveness of using expanded conductors on extremely high voltage power transmission lines

SOURCE: Elektrichestvo, no. 1, 1967, 12-16

TOPIC TAGS: electric wire, high voltage line, electric power transmission

SUB CODE: 09

ABSTRACT: The usage of expanded conductors improves the technical and economic indices of electric power transmission lines. The degree of this improvement is greater, the higher the voltage, the greater the line length and the less the transmitted power in comparison to the natural power. The usage of these conductors is particularly effective when climatic conditions require a reduction in the number of phase components. These conductors displace the area of economically transmitted powers toward lower powers for a given class of line, increasing the economic effectiveness of increased voltage.

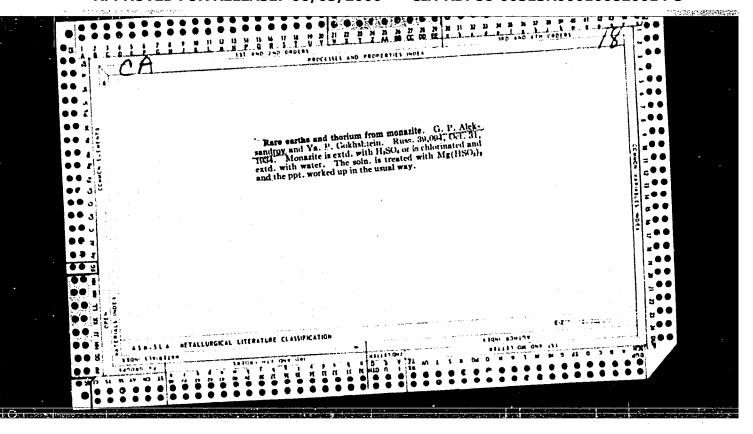
Card 1/2

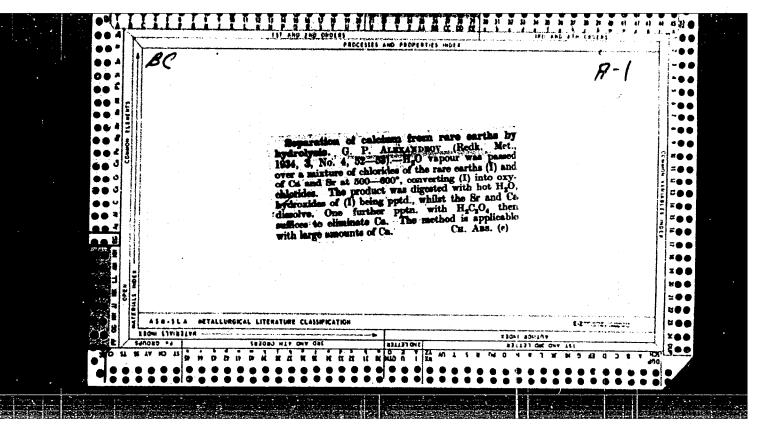
UDC: 621.315.1.004.15

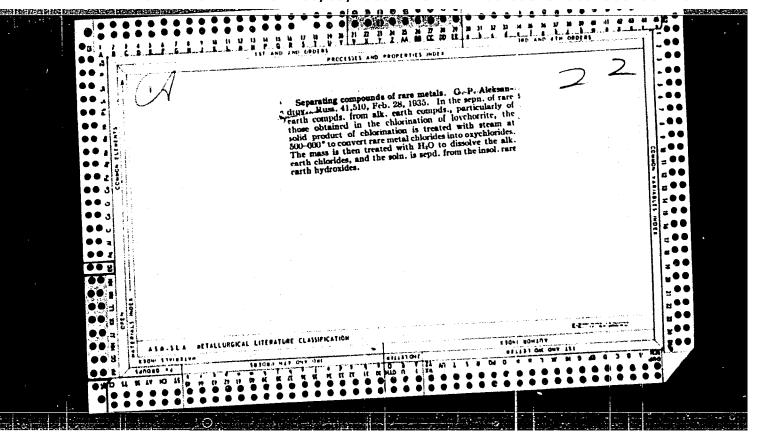
ACC NR: AP7011363

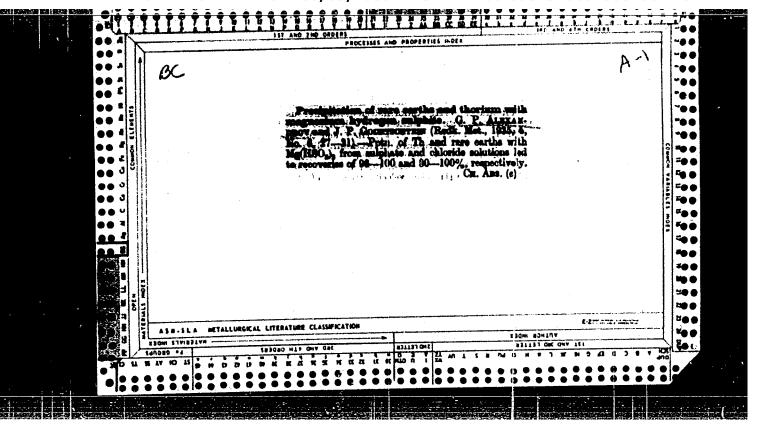
Standards should be developed for wires from the point of view of selecting optimal ratios between radius and cross-section as quickly as possible. Orig. art. has: 4 figures, 12 formulas and 3 tables. JPRS: 40,360

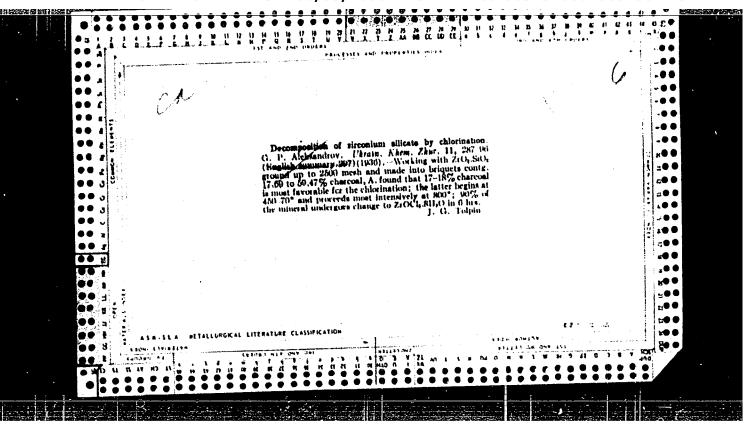
Card 2/2

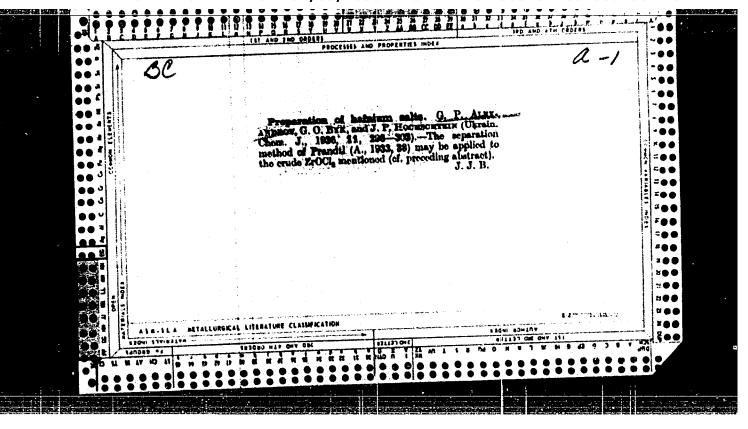


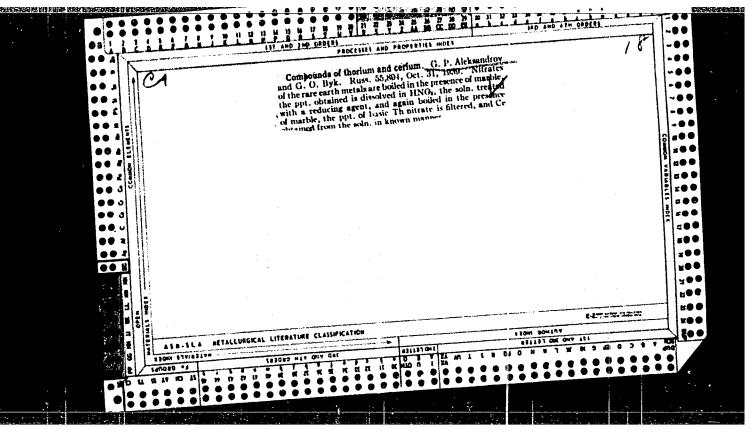


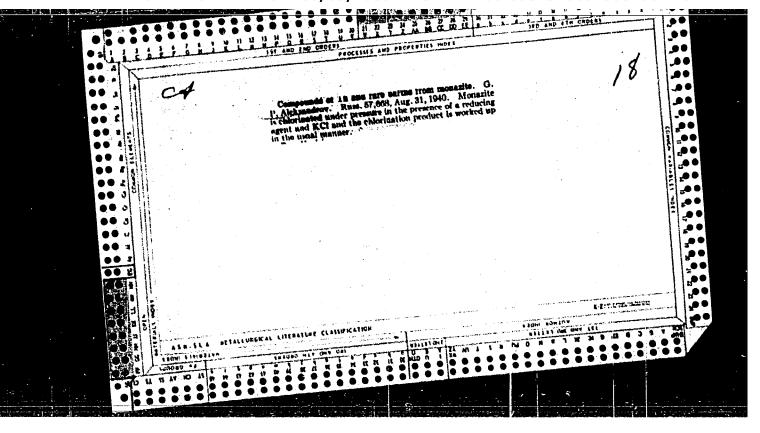


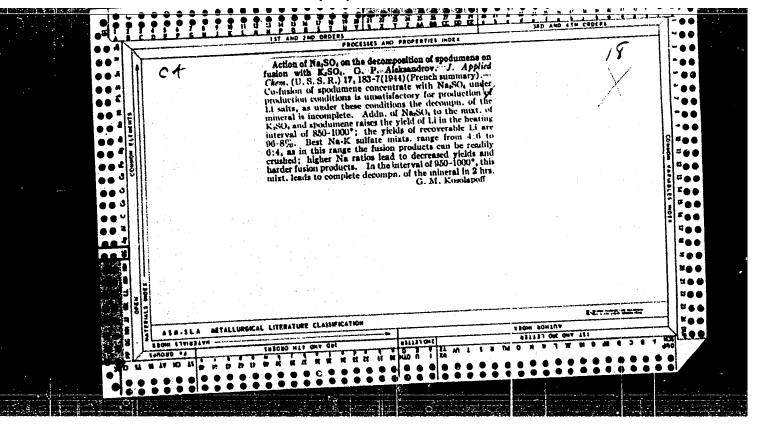


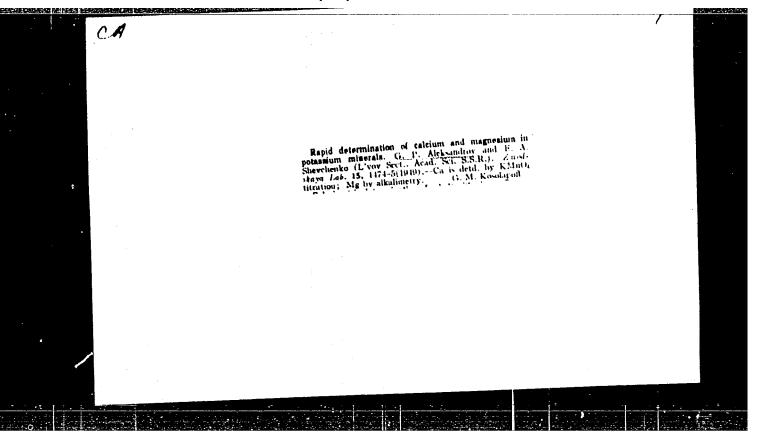




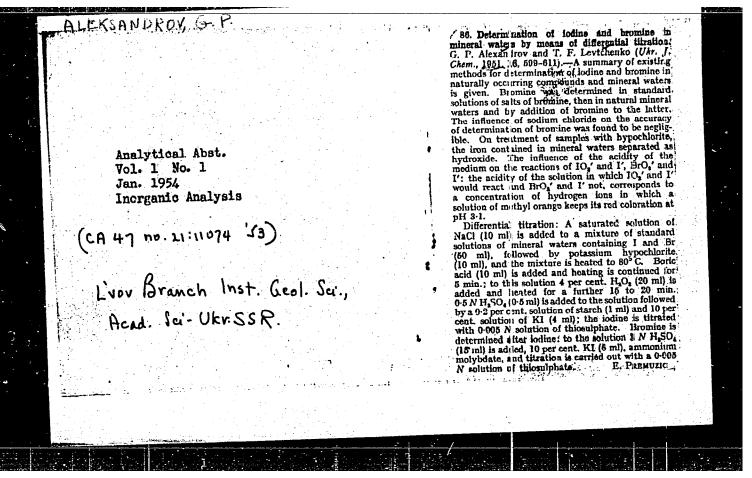








	"Colorimetric tassium Balts, Affiliate, Aca "Zavoù Lab" No Bvaluates varior detn of su occur in naturatron ions, alum iron ions, alum chlorides and par boron. Ther detn of boron ions in part detn of boron ions.	#8 .
	erals control	
•	Determination of Boron, G. P. Aleksandrov, S. ad Sci Ukrainian SSR 11, pp 1396-1398 Ous reagents, used in c suggests carmine reaction small quantities of al potassium salts. Pr. minum, magnesium, calciphosphates does not intrefore, used reaction fun borate pres. Descrii	
w		
	in colorimetric action as best m of boron as the Presence of fealcium, barium, interfere with con for colorimetric for interfere procedure	
	Nov 50 Al Po- k, L'vov ferric- they ferric- um, 180788 Nov 50 th detn metric dure	



ALEKSANDROV, G.P.; LEVCHENKO, T.F.

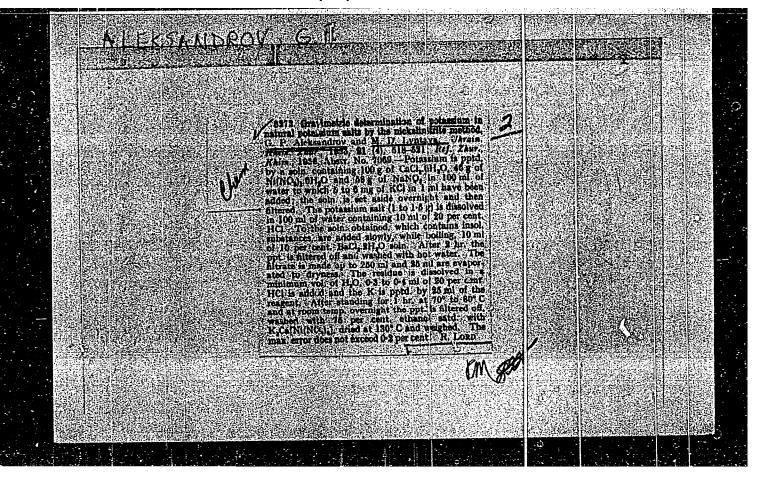
l.L'vovskiy filial Akademii nauk USSR. (Galcium hypochlorite) (Halogens) (Titration)

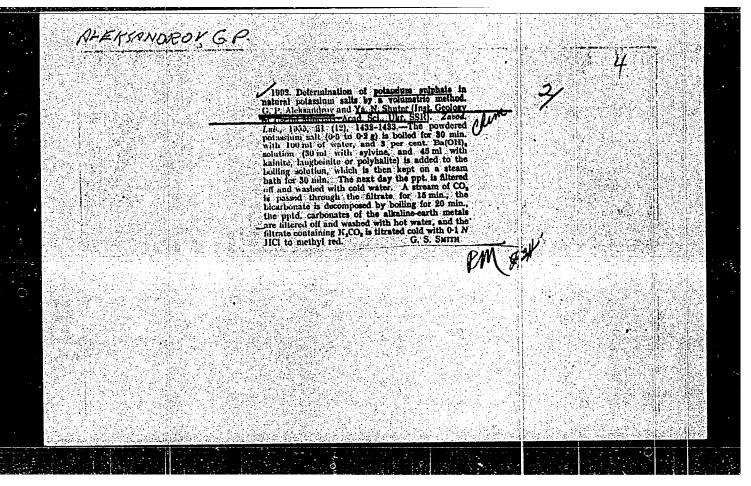
ALLESANDROV, G.P.; LEVCHENKO, T.F.

Bromine and iodine content in Zakarpatian salt. Gig. sanit., Moskva no. 1:43 Jan 1953. (CLML 24:2)

1. Of the Laboratory of Mineral Chemistry of the Enstitute of Mineral Resources of the Academy of Sciences Ukrainian SSR.

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100820014-5





ALEKSANDROV, G.P.; TIKHONOVA, V.S.

Gravimetric determination of cerium by the periodato method. Ukr. khim.zhur.22 no.3:379-382 *56. (MIRA 9:9)

1.Institut geologii poleznykh iskopayemykh AN USSR, Laboratoriya mineral'noy khimii. (Cerium) (Periodates)

Preparation of a new sulfate fertilizer, kaluszite, from natural kainites. Zhur. prikl. khim. 31 no.10:1445-1453 0 '58.

(MIRA 12:1)

1. Laboratoriya mineralnoy khimii instituta geolegii poleznykh iskopeyemykh AN USSR.

(Kainite) (Fertilizers and manures)

(Kaluszite)

AUTHOR:

Aleksandrov, G. P.

130-5-18/22

TITLE:

A book for casting-bay workers. (Kniga dlya rabochikh razlivochnykh proletov).

PERIODICAL: "Metallurg" (Metallurgist) 1957, No.5, pp.35-37 (USSR).

ABSTRACT:

This is a review, on the whole favourable, of the book "The Pouring of Steel" (Razlivka Stali") by D. P. Strugovshchikov, published by Metallurgizdat in 1956.

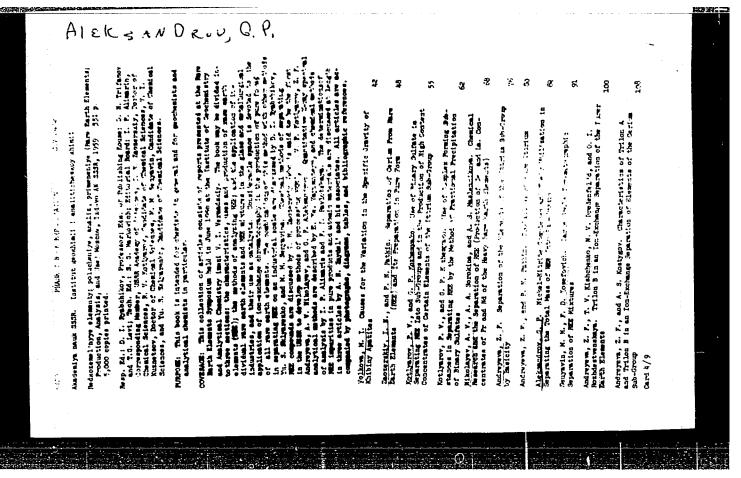
AVAILABLE:

Card 1/1

KLEMENT'YEVA, A.I.; SKOROKHODOV, M.A.; Prinimali uchastiye: ALEKSANDROV, G.P.;
BABUN, F.Ta.; BATBARIN, P.P.; VATNSHTEYN, TS.Z.; GUSSY, I.V.; ZHETYIN,
N.P.; KONTSEYATA, Te.M.; LEVINA, N.M.; NOVLYANSKATA, K.A.; PODVOYSKIY, L.N.; THUNTSEV, D.S.; FLEROV, N.G.; CHIKHACHEV, T.A.; YUROV,
Tu.N.; GUDKOVA, N., red.; YEGOROVA, I., tekhn.red.

[Light over the gate] Svet nad zastavoi. Moskovakii rabochii,
1959. 422 p. (MIRA 12:4)

(Moscow--Metallurgical plants)



ALEKSANDROV, G.P.; TIKHONOVA, V.S.

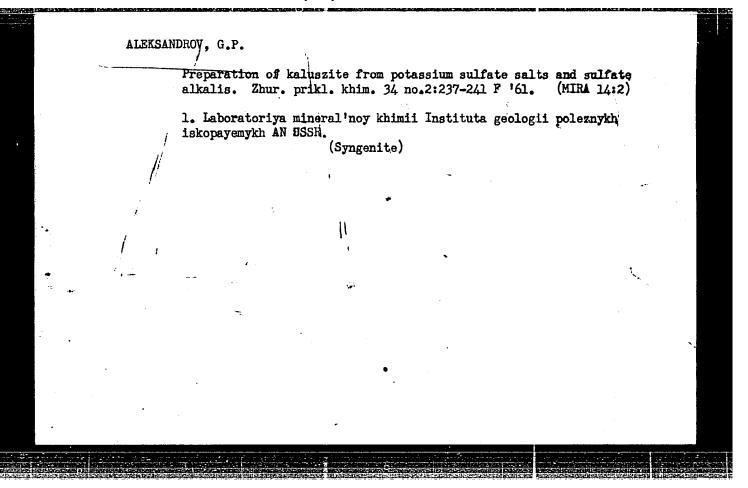
Determination of ammonia in the presence of nitrites. Zav.lab. 26 no.1:57 '60. (MIRA 13:5)

1. Institut geologii poleznykh iskopayemykh Akademii nauk USSR.
(Nitrites) (Ammonia)

ALEKSANDROV, G.P.; TIKHONOVA, V.S.

Effect of the concentration of [Ni(NO₂)6]⁴ on the composition of mixed lanthanum and cerium hexanitronickelates with potassium. Ukr.khim.zhur. 27 no.5:592-598 '61. (MIRA 14:9)

1. Institut geologii poleznykh iskopayemykh AN USSR. (Rare earth compounds) (Nickel compounds) (Potassium compounds)



ALEKSANDROV, Grigoriy Petrovich Aleksandrov, H.P.]; DUDNIK, Vera Nikolayevna Dudnyk, V.M.]; KITYK, Vasiliy Ivanovich; SURZHOK, Grigoriy Dmitriyevich [Surzhok, H.D.]. Prinimal uchastiye SHEVCHENKO, Yu.V.; PORFIR'YEV, V.B., akademik, otv. red.; MEL'NIK, G.F. [Mel'nyk, H.F.], red. izd-va; DAKHNO, Yu.B., tekhn. red.

[Kalussite, a new potassium fertilizer]Kalushyt - nove kaliine dobryvo. [By]G.P.Alekandrov ta inshi. Kyiv, Vydvo Akad.nauk URSR, 1962. 133 p. (MIRA 16:3)

1. Akademiya nauk Ukr. SSR (for Porfir'yev)
(Ukraine--Kalussite)

1. Institut geologii poleznykh iskopzyemykh. (Cobalt—Alalysis) (Potassium permanganate)	Volumetric determination of co Ukr,khim.zhur. 28 no.7:8711-874	olumetric determination of cobalt by means of potassium permanakr,khim.zhur. 28 no.7:871-874 162. (MIRA		
	l. Institut geologii poleznyk (Cobalt—Alalysis)	h iskopsyemykh. (Potassium permanganate)		
			•	

Principles for selecting the dimensions of extrahigh voltage power transmission lines. Izv.vys.ucheb.zav.; emerg. 6 no.1:28-36 Ja *63. (MIRA 16:2)

1. Leningradskiy politekhnicheskiy institut imeni MaI. Kalinina. Predstavlena kafedroy tekhniki vysokikh napryazheniy. (Electric power distribution—High tension) (Electric lines—Overhead)