Nonthly List of Bussian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

ZAYETS, Vladimir Nikolayevich; PETROVSKIY, Vasiliy Vladimirovich; RYSAKOV,
Nikolay Fedorovich; DEREVIANNYKH, B.P., redaktor; LUCHKO, Tu.V.,
redaktor; KOVALENKO, N.I., tekhnicheskiy redaktor.

[Boiler equipment] Kotel'nye ustanovki. Sverdlovsk, Ges.nauchnotekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1955. 296 p.

(Boilers)

(Boilers)

RYSAKOV, N.F.

AID P - 3070

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 4/29

Authors

: Tolstikov, A. I., and Rysakov, N. F., Engs.

Title

: Pneumatic removal of slag and ashes from the boiler room with layer

burning of fuel

Periodical: Energetik, 7, 8-10, J1 1955

Abstract

: The authors describe an installation of three 30 t/mr boilers operating on lignite coming from Chelyabinsk and Korkinsk. The traveling grate-stokers are of the BTsR type. The pneumatic removal of slag and ashes was built according to the design of the Uralenergomontazh. The authors explain in detail the functioning

of this arrangement. Six drawings.

Institution:

None

Submitted

: No date

. RYSAKOY, N.F.

AID P - 2572

Subject

: USSR/Engineering

Card 1/2

Pub. 110-a - 11/16

Author

Rysakov, N. F. and M. N. Pesoshnov, Engs.

Title

Pulverization and sorting of the Kizel Coal in pulver-

ized fuel-fired units

Periodical:

Teploenergetika, 8, 48-51, Ag 1955

Abstract

The article gives an analysis of Kizel coal properties, i.e. its high volatility, mineral content (pyrite), hardness, etc. Studies on operational efficiency and on deficiencies in the design of pulverizing and sorting equipment are summarized. The wear of the equipment is reportedly too fast. The amount of electric energy needed for operation is determined. Properties of pulverized coal are presented graphi-

cally. Ten diagrams.

Institution:

Ural Polytechnical Institute and Uralenergomontazh

Teploenergetika, 8, 48-51, Ag 1955

AID P - 2572

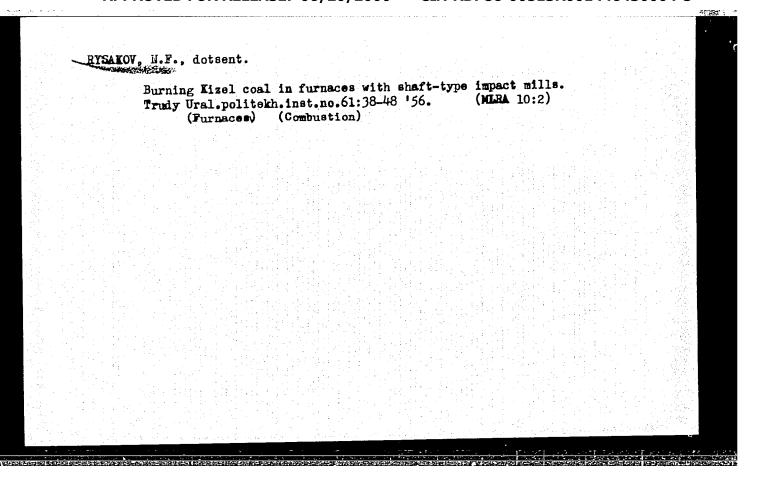
Card 2/2

Submitted

Pub. 110-a - 11/16

(Urals Trust for Installation of Power Machinery and Equipment)

No date

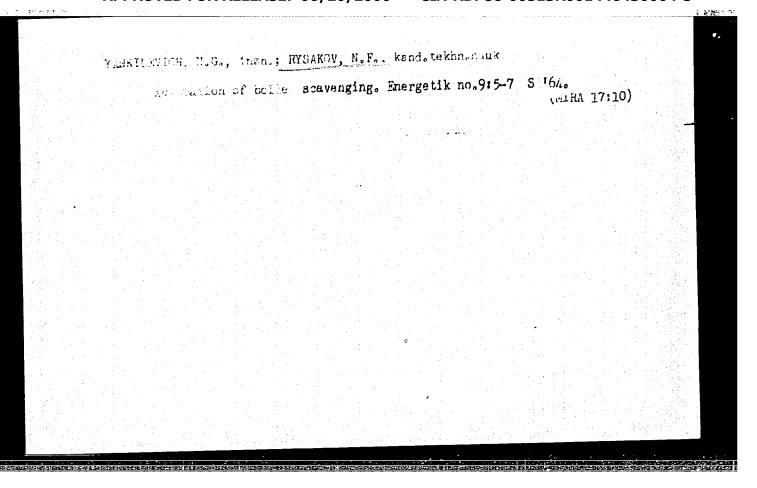


FADYUSHINA, M.P., inzh.; RYSAKOV, N.F., kand. tekhn. nauk, dotsent

Study of the mixing unit of a reactor. Izv. vys. ucheb. zav.; energ. 7 no.8:121-125 Ag '64. (MIRA 17:12)

1. Ural'skiy politekhnicheskiy institut 'Peni S.M.Kirova. Predstavlena kafedroy teplovykh elektricheskikh stantsiy.

Utilization nauch. trud.	of fuel in power Ural. politekh.	production and technolinst. no.122:133-139	ology. Sbor. '61. (MIRA 17:12)	



SERGEYEV, A.A.; RYSAKOV, N.F., dots., retsenzent; SAMOVA, T.M., inzh., red.

[Brief handbook for the boiler maker] Kratkii spravochnik kotel'shchika-montazhnika. Moskva, Mashgiz, 1963. 206 p. (MIRA 17:4)

RYSAKOV, N.F., dotsent

Dynamics of gas generation during thermal treatment of lignite with high-speed superheating. Trudy Ural. politekh. inst. no.108:39-49
161.

(MIRA 16:9)

Problem concerning the use of Chelyabinsk coal in the production of electric power. Trudy Ural politekh. inst. no.76:48-60 '60. (MIRA 16:6)					
	(Chelyabinsk-Chal) (Electric power)				
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RESHETIN, N.I., prof.; RYSAKOV, N.F., dotsent

Reactors for thermal fuel gasification using solid heat carriers.

Trudy Ural. politekh. inst. no.108:50-56 '61. (MIRA 16:9)

BASKAKOV, A.P.; GUREVICH, M.I.; RESHETIN, N.I.; RYSAKOV, N.F.;
SHALAYEV, N.B.; GIRSHFEL'D, V.Ya., red.; FRIDKIN, L.M.,
tekhn. red.

[General heat engineering] Obshchaia teplotekhnika. [By]
A.P.Baskakov i dr. Moskva, Gosenergoizdat, 1963. 391 p.
(MIRA 16:6)

(Heat engineering)

VOLACY, Ye.V., ingh.; FEYN, L.M., ingh.; RELATION, H.F., dots.; SKOROKHED, V.F., ingh.; SHLFLAY, H.B., ingh.

Conversion of boiler furnaces from block peat to milled peat by instilling cyclone furnaces. Izv. vys. ucheb. 22v.; amerg. 4 no. 1:116-122 Ja '61.

1. Ural'skiy politekhnicheskiy institut imani S.I. firova, Uralmeshzavod i Uralenergether et. Fredstavlena M. fadro. pronteploonergetiki Ural'skogo politekhnicheskogo instituta.

(Surnaces)

BASKAKOV, A.P., RYSAKOV, N.F., SYROMYATNIKOV, N.I.

Some systems for the use of solid fuels for power engineering purposes. Trudy Ural. politekh. inst. no.79:36-45 '59.

(Fuel research)

(Power engineering)

Problem of the use of Bashkiria coal for power engineering purposes. Izv.vys.ucheb.zav.; energ. 2 no.12:77-84 D '59. (MRA 13:5)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Predstavlena kafedroy pronteploenergetiki. (Bashkiria—Coal) (Power engineering)

PASKAKOV, A.P.; HYSAKOV, N.F.; LEVIN, I.S.; RUBTSOV, G.K.

Thermal decomposition of brown coal at different heating rates.

Gaz.prom. 5 no.6:15-19 Je '60. (MIRA 13:6)

(Coal gasification)

RESHETIN, H.I., prof.; RYSAKOV, N.F., dots.

Hew reactor for the thermal decomposition of fuel. Izv.vys. uchob.zav.; energ. 3 no.1:106-109 Ja '60. (MIRA 13:1)

1. Ural'skiy politektnicheskiy institut im. S.M.Kirova. Predstavlena kafedroy promteploenergetiki. (Furnaces)

11(7) AUTHORS:

SOV/143-59-2-10/19 Volkov, Ye.V., Engineer; Rysakov, N.F., Docent; and

Shalayev, N.B., Engineer

TITLE:

The Application of Cyclone Stokers With Liquid Slag Removal for Firing Cut Peat (O primeneniyem tsiklonrnykh topok s zhidkim shlakoudaleniyem dlya szhiga-

niya frezernogo torfa)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika.

1959, Nr 2, pp 79-86 (USSR)

ABSTRACT:

Since about 50% of the coal required by the economic districts of the Ural, including the Sverdlovsk, Perm' and Chelyabinsk Oblast', are mined in Karaganda, Kuznetsk, Ekibastuz, Cheremkhovo and Khakasiya, the authors recommend exploiting the local peat deposits as a boiler fuel. In the past, many methods for using peat as a boiler fuel have been tried, but these experiments failed, since an economic and stable firing of peat could not be achieved. Only the pneumatic stokers of TsKTI, which were based on the whirl principle of A.A. Shershnev, had some

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The Application of Cyclone Stokers With Liquid Slag Removal for Firing Cut Peat

success and together with the shaft-mill method, they found the most wide-spread application. The cyclone stokers, suggested by Professor G.F. Knorre, are the latest development in this field. The shaft-mill method has a heat liberation value of 150.103 kcal/ m³ h, while that of the TsKTI stoker is 120.10 kcal/ m⁵ h, which is relatively low and therefore large stoker volumes are required. In addition, soot traps must be installed, since about 85% of the peat ash are carried out of the smokestacks with the first method and almost 100% with the TsKTI stoker. The large stoker volumes and the soot traps of the presently used methods are not suitable for a largescale conversion of boiler stokers to use peat as fuel. Therefore, only 2.09 million tons of peat were mined in the Sverdlovsk Oblast', in 1957, while the annual output could be around 40-50 million tons annually, since the peat deposits in this area alone are estimated at 4.5 billion tons. The Ural

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The Application of Cyclone Stokers With Liquid Slag Removal for Firing Cut Peat

peat is composed of small particles, those having a size of 3-4 mm amount to only 10-15% and its ash content is 8.9-9%. The melting point of the ash varies between 1050 and 1170°C. The moisture content changes annually; in 1956 it was 46.3%, while it decreased in 1957 to 42%. Mining one ton of peat costs presently 16-18 rubles, but this cost could be reduced with large-scale mining methods. For using peat as boiler fuel on a large scale, the authors recommend a cyclone stoker with liquid slag removal. However, there are no publications available on data for firing peat in cylone stokers. According to data furnished by M.A. Nadzharov Ref 57 for coalfueled cyclone stokers, the slag viscosity must not exceed 250 poise at 1400°C. Calculations showed that with a 50% moisture content of the peat, temperatures of only 1400-1500°C could be obtained at the outlet of the cyclone stoker, even if hot air of 400°C was blown in, while theoretically 1640°C were re-

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SOV/143-59-2-10/19 The Application of Cyclone Stokers With Liquid Slag Removal for Firing Cut Peat

quired. The authors had the opinion that such a temperature would not provide a stable and continous removal of the liquid slag. When burning peat in a cyclone stoker with liquid slag removal, the main problem is to provide a temperature in the combustion chamber which exceeds the melting temperature of the slag to a considerable degree. The authors performed the same calculations for peat with a moisture content of 30-35% which showed that a temperature of 1706-1733 C could be achieved when blowing in air at 350-400 C. Figure 1 shows the graphical presentation of the calculation results. A footnote says that the slag viscosities of various fuels are under investigation at UPI - Ural'skiy politekhnicheskiy institut imeni S.M. Kirova (Ural Polytechnical Institute imeni S.M. Kirova). Based on the theoretical calculations an experimental cyclone stoker was built at UPI, as shown by figure 2. A fan was used, powered by a 50 kw asynchronous motor,

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The Application of Cyclone Stokers With Liquid Slag Removal for Firing Cut Peat

which produced a pressure of 2,000 mm water column at 3,000 m³/h air consumption. The air heater provided temperatures of up to 500° C. The combustion chamber of the cyclone stoker is shown by figure 3. The peat used for the experiments was preliminarily dried and had a moisture content of 15-20%, its ash content was 11% with 62-69% volatile matter. Its heat value was 3900-4100 kcal/kg. The peat was fed into the cyclone stoker at a rate of 450 kg/h at an air temperature of 350° C, whereby heat liberation values $Q/V_{ts} = 9 \cdot 10^{6}$ kcal/m³h and $Q/F_{ts} = 7.5 \cdot 10^{6}$ kcal/m³h were obtained. The gas temperatures in the cyclone stoker were $1500-1600^{\circ}$ C while the surface temperature of the liquid slag flowing out of the tap hole was $1380-1440^{\circ}$ C. Pyrometer errors must be taken into consideration, thus the actual temperatures were somewhat higher. Based on the positive results of the experiment, the Kafedra PTE - Kafedra promtep-

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SOV/143-59-2-10/19

The Application of Cyclone Stokers With Liquid Slag Removal for Firing Cut Peat

> (Chair of Industrial Thermal Power loenergetiki Engineering) of UPI suggested at a conference of the technical council of TETs UZTM and the Toplivnyy komitet NTOEP (Fuel Committee NTOEP) on June 28, 1957, to install a cyclone stoker for burning peat with a reduced moisture content at one of the boilers of TETs UZTM. The conference recommended the suggested reconstruction to the administration of the TETs UZTM and asked the Kafedra PTE of UPI to work out a project for such a reconstruction. There are 2 diagrams, 1 graph and 9 Soviet references.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut imeni S.M. Kiro-

va (Ural Polytechnical Institute imeni S.M. Kirov)

PRESENTED:

Kafedra promteploenergetiki (Chair of Industrial

Heat Engineering)

SUBMITTED:

November 10, 1958

Card 6/6

CIA-RDP86-00513R001446430004-5"

APPROVED FOR RELEASE: 06/20/2000

EASKAKOV, A.P., kand.tekhn.nauk, dotsent; RYSAKOV, N.F., dotsent

Effective use of fuel. Izv.vys.ucheb.zav.; energ. no.5:120-124

My '58.

1.Ural'skiy politekhnicheskiy institut imeni S.M. Kirova.

(Fuel)

RYSAKOV, P.

Foreign Relations - Scandinavia

Aggravation of Anglo-American conflicts in Scandinavia, Vop. ekon., No. 8, 1952

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

RYSAKOV, P.

Scendinavia - Foreign Relations

Aggravation of Anglo-American conflicts in Scandinavia. Vop. ekon. no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 / 1968, Uncl.

RYSAKOV, S. V.

Rysakov, S. V. "Survey of Methods Used at Observation Posts for Estimation of Pests and Diseases of Cereals, Apple Trees and Grapes," <u>Itogi Nauchno-Issledovatel'skikh</u>
Rabot Vsesoiuznogo Instituta Zashchity Rastenii za 1935 Goda, 1936, pp. 530-533.
423.92 L54I

So: SIRA SI - 90-53, 15 Dec., 1953

S/2754/64/000/003/0202/0220

ACCESSION NR: AT4043151

AUTHOR: Ry*sakov, V.M.

TITLE: Approximate methods of computation and simulation techniques of transient processes in radio wave propagation

SOURCE: Leningrad. Universitet. Problemy* difraktsii i rasprostraneniya voln, no. 3, 1964. Rasprostraneniye radiovoln (Radio wave propagation), no. 3, 202-220

TOPIC TAGS: radio wave, radio wave propagation, transient process, simulation, surface wave propagation, path attenuation function

ABSTRACT: General solutions of transient phenomena in surface wave propagation are complicated and require application of a computer even for simple signals of the type δ (t) and u(t) cos $\omega_0 t$. If only the distortions in the signal are of interest, however, several simplifications can be introduced. For a planar homogeneous earth the range factor eikr/r is normalized out and the path attenuation function $\mathcal{W}(sr)$ is approximated by $\mathcal{W}(x_1, x_2)$, where $x_1 = \frac{\omega_0}{00}$, $x_2 = \frac{\omega}{00}$. Here ω_0 and ω_0 are characteristic frequencies of the

path i.e., $\psi_{01} = 0.02$ at which sr = 1 when displacement currents are neglected, and

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ACCESSION NR: AT4043151

at which \sr\ = 1 when conduction currents are neglected (sv = -ikv/ The function W (x1, x2) is the transfer function of the path and can be 2(Cm -₩č0)):

written as the sum of two functions, $W'(x_1)$ for a purely conductive path and $W^1(x_2)$ for a purely dielectric path. Analytic expressions for $W^1(x_1)$ and $W^1(x_2)$ are given and a table of f_{01} and f_{02} is given for 7 different surface conditions and ranges from 1 to 200 km. The normalized field is now $E^1(i \cup i) = W(x_1, x_2) E^1_0(i \cup i)$ where $E^1_0(i \cup i)$ is the field at the antenna. For a double-layer flat earth the path transfer function is written in terms of 2 characteristic frequencies for each layer and a frequency ω_c at which the depth of the upper layer, $V = \sqrt{\sigma_c u \omega} h_c = 1 \text{ i.e.}, \omega_c = \frac{1}{\sqrt{\sigma_c u \omega}}$

layer case requires a computer solution but special cases, such as with negligible upper layer conductance, are easily handled and give results within 20% of the true values. The path transfer function is approximated by a circuit: for a purely conductive path two RC circuits in cascade with time constants of $\sqrt{2}/\omega_{01}$ and for a purely dielectric

 $Card^{2/4}$

ACCESSION NR: AT4043151

path one RC circuit with a time constant of $2/\omega_0$. The compensation for the \mathcal{J} -circuit is an RLC circuit with $\omega_{o1} = \frac{1}{\sqrt{LC}}$ and $\frac{W_{o1}L}{R}$ and for the \mathcal{C} -circuit it is a special RC-

coupled amplifier. The transfer function for the homogeneous earth path is approximated by parallel combination of compensated \mathbb{C} - and \mathbb{C} - circuits followed by a linear mixer. For the stratified earth path with high conductivity in the upper layer the circuit is a parallel combination of \mathfrak{aG} - circuit for the lower layer followed by an overcompensated video amplifier to account for response in the vicinity of $\mathcal{O}_{\mathbb{C}}$, a \mathbb{G} -circuit for the upper layer and a \mathbb{E} - circuit for the upper layer. In case of low conductivity in the upper layer the approximating circuit is a \mathbb{E} - circuit followed by a delay line and mixer combination to simulate the multiple signal reflections which arise in such paths. A combination of these circuits was used to construct a path simulation system. Measurements of the response of this system using simple signals δ (t), u(t) cos $\mathcal{O}_{\mathbb{C}}$, u(t) sin $\mathcal{O}_{\mathbb{C}}$ and δ (t) - u (t) $\mathcal{O}_{\mathbb{C}}$

 $\sin \omega_0$ t, as well as arbitrary pulses, showed a deviation of 5% or less from true values. It was concluded that the initial pulse form (at the antenna) is very important and that small changes in the initial pulse form can influence the final response very significantly. For this reason, the transient characteristics of the antenna must be considered in detail when computing the transient response of the ground wave propagation path. Orig. art. has:

Card 3/4

ACCESSION NR: AT4043151

15 figures, 10 formulas and 1 table.

ASSOCIATION: Leningradskiy universitet (Leningrad University)

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 009

OTHER: 003

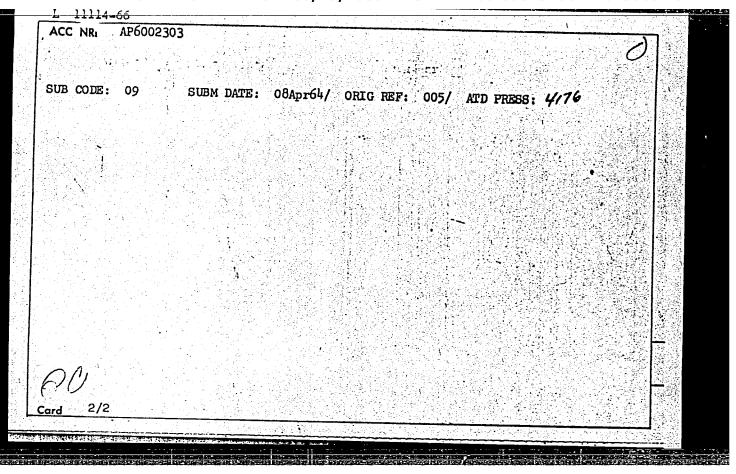
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"APPROVED FOR RELEASE: 06/20/2000 CI

CIA-RDP86-00513R001446430004-5

UR/0141/65/008/006/1187/1195 SOURCE CODE: 11114-66 ACC NRI K.; Busev, N. I.; Rysakov, ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet) Bulgakov, A. TITLE: Transient processes in linear antennas 15B14 SOURCE: IVUZ. Radiofizika, v. 8, no. 6, 1965, 1187-1195 TOPIC TAGS: antenna, microwave antenna, transient electromagnetic field ABSTRACT: Transient phenomena which occur during either stationary or nonstationary radiation from a linear antenna are investigated. For the traveling wave case, it is shown that radiation impedance is independent of the excitation waveform and the antenna length, and has a value of 83 ohm. In the general case of reflections from an antenna termination, it is shown that most of the attenuation occurs in the reflected rather than the incident portions of the applied wave. For step-function or similar sharply-rising driving voltages, it thus becomes necessary to take these reflections into account; whereas for sufficiently slowly rising voltages, they may be safely ignored. The analysis was extended to a study of transient effects in the near-field antenna region. Experimental results are given for both near- and farfield response to step-function excitation of load matched ant anas. The authors conclude that in traveling wave antennas, transient effects must be considered in the near-field region, and for this reason it is not correct to equate antenna action to that of an equivalent point source dipole. Orig. art. has: 4 figures. 1/2 Card

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001446430004-5



Possibility of applying high frequency electromagnetic oscillations to geophysical prospecting. Probl.dif.i raspr.voln. 1:143-150 '62. (MIRA 15:6)					
(Prospecting-Geophysical methods) (Electromagnetic waves)					

\$/754/52/000/001/004/006

AUTHOR:

Bulgakov A. K., Rysakov V. M.

TITLE:

Possibility of using high frequency electromagnetic oscillations

in geophysical prospecting

PERIODICAL: Leningrad. Universitet. Problemy difraktsii i rasprostraneniya

voln. no. 1. 1962. Rasprostraneniye radiovoln. 143-150

The possibility of employing high-frequency waves in geophysical prospecting is investigated using calculations made with an electronic computer, with special emphasis on the interretation of experimental data obtained in measurements of the surface impedance of geological structures (or of quantities related with the impedance. The earth is regarded as a double-layer plane-parallel structure with an upper layer of thickness 1 and a lower layer extending to infinity. Approximate formulas are derived for the dielectric constant (\$\epsilon_2\$), the thickness (1), and the resistivity (p) of the upper layer in terms of the average surface impedance (6, the experimentally measured quantity) and the reflection coefficient R, which can be regarded as equal to unity in most cases when the two layers differ appreciably in their electric properties:

Card 1/2

Possibility of using high frequency ... -S/754/62/000/001/004/006 $\varepsilon_2 = \delta^{-2}_{av}, \quad z = \frac{\delta_{av}}{2\Delta f}, \quad \rho_2 = \frac{5.7 \cdot 10^{10} \delta_{av}^2}{\Delta f \cdot \ln \frac{\Delta \delta}{\delta_{av}^2 R_1}}$ (1) The accuracy of the above approximate formula was checked against exact calculations with an electronic computer and found to be within 10% in most cases, but the value of deviated under some circumstances from the true value by a factor 2 -- 3. It is shown that an appreciable count of information concerning the properties of the upper layer can be obtained only if the resistivity of the upper layer exceeds 1000 ohm-meters, when the radio-frequency range from 1 to 10 Mc/sec is most suitable. Direct measurement of surface impedance entails certain practical difficulties, but it is pointed out that satisfactory results are obtained by measuring quantities associated with the surface impedance, namely the coefficient of reflection from the earth's surface for a normally incident wave or the height amplification, the latter by a procedure described by J. R. Wait (ref. 3, Geofisica pura e appl. vol.28, 47, 1954). There are four figures and three references, the first two in Russian. V. V. Novikov, an assistant in the Radiophysics faculty of the Leningrad State University, is credited with the calculations. Card 2/2

\$/754/62/000/001/005/006

AUTHOR:

Bulgakov A. K., Rysakov V. M.

TITLE:

Experimental investigation of transients in radiowave propagation

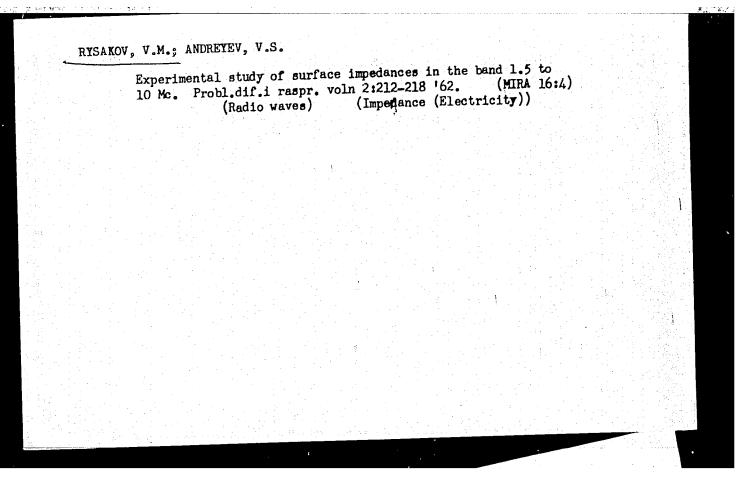
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Leningrad. Universitet. Problemy difraktsii i rasprostraneniya voln. no. 1. 1962. Rasprostraneniye radiovoln. 151-155.

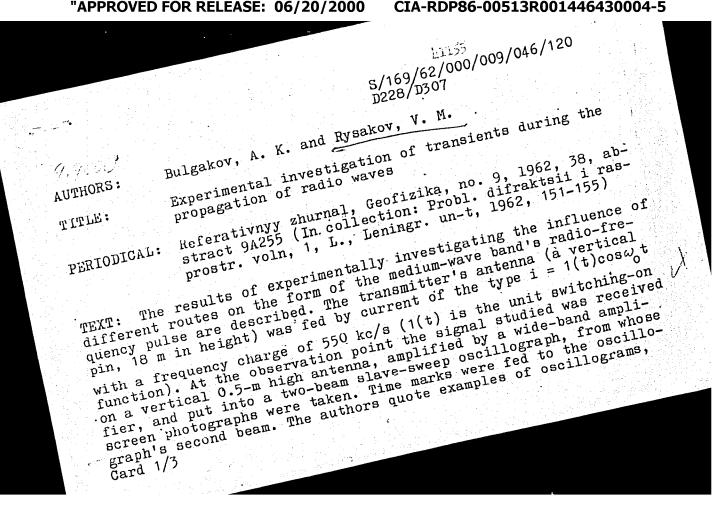
TEXT: The investigation was aimed at ascertaining experimentally the effect of various paths on the waveform of a radio-frequency pulse of the medium length band. The hitherto published theoretical computations used an excessive idealization of the field so ree. A short vertical antenna was used to transmit cosinusoidal step functions ath 550 ke/sec carrier. The transmitting antenna was at a hight of 18 m, a 0.5 m antenna was used for reception, the signal being amplified and fed to an oscilloscope. The waveforms obtained in propagation over different paths were measured. When the paths had high conductivity (mud) the pulse waveform remained constant up to distances of 2 km. At low ground conductivity a noticeable decrease in the amplitude of the high-frequency oscillations was observed even after less than one km. At larger distances the high-

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Experimental investigation of transients S/754/62/000/001/005/006		
frequency components attenuate almost completely, owing to preferred propagation of the low-frequency components. Interesting results were obtained in the case of propagation over two-layer grounds, and it is shown that some data can be obtained in this manner concerning the relative thicknesses and conductivityes of the layers. There are six figures and five references, two to work by Wait (Ca	e ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
j. Phys.) and three to work by Johler.	**************************************	
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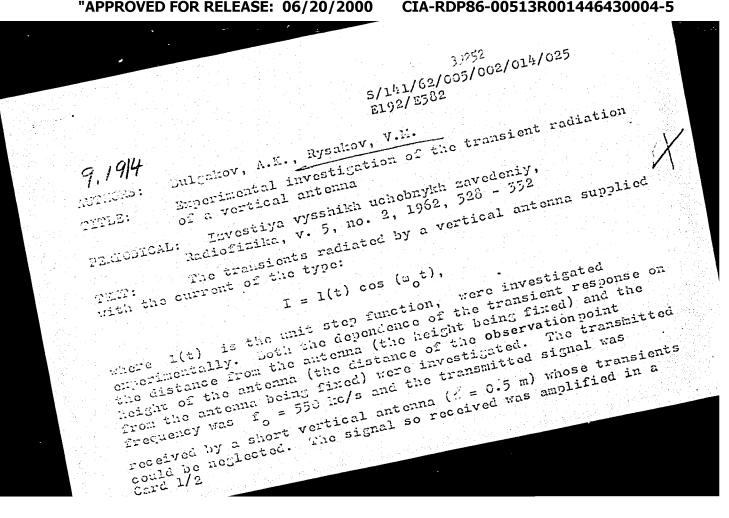
S/169/62/000/009/046/120 D228/D307

Experimental investigation of ...

obtained in the propagation of pulses over routes of high (a bog) and low ($\sigma \approx 3 \times 10^{-3}$ ohm·m⁻¹) conductance and over a two-layer structure. In the latter case the upper layer was of about 10-20 m and had a low conductance $\approx 3 \times 10^{-4}$ - 1.5 x $\pm 10^{-5}$ ohm⁻¹ · m⁻¹, but the lower layer was a good conductor. It is noted that on the propagation of a pulse over a well conducting medium its form hardly changes with distance, right up to the limiting distances (3 km) which were studied. The decrease in the amplitude of the high-frequency oscillations at a distance of only 1 km is distinctly noticeable in the second case, and these fade practically completely when the distance is further increased. When studying the propagation of pulses over a two-layer structure, considerable distortions were observed; these can be explained by the superimposition of the signal, reflected from the top surface of the lower well-conducting layer. It is pointed out that the upper layer's thickness can be readily ascertained on the oscillograms from the lag of the reflected pulse. It is mentioned that the depths, computed from these data (on the assumption that & in the top layer equals 10 - 20), Card 2/3

Experimental investigation of ... S/169/62/000/009/046/120 D228/D307

were found to be extremely close to values obtained by the method of d.c. vertical electric sounding. It is indicated that more detailed analysis of the distortions in the pulse's form will evidently allow not just the bottom layer's depth to be ascertained, but also the structure's electric parameters. / Abstracter's note: Complete translation. /



S/141/62/005/002/014/025 E192/E382

Emperimental investigation

wide-band amplifier and applied to an oscilloscope where the transients could be photographed. The experiments indicated the presence of the IF oscillatory transients which were due to the multiple reflections of the applied pulse from both ends of the antenna. The duration of the transient which is defined as the time necessary for the reduction of the amplitude of the HF oscillations by a times was about 10 T, where T = 2 l/c. The period of the HF oscillations T was approximately equal to the transit time of the wave to the top of the antenna and back. In general, the duration of the transients increases with distance from the antenna and its height. There are 7 figures.

SUBMITTED: Muly 28, 1961

Card 2/2

RYSAKOV, V.N., inzh.; YANKOVSKIY, O.A., kand.tekhn.nauk

Construction of culverts on slopes. Transp. stroi. 12 no.2:18-20 F
162. (MIRA 15:7)

(Culverts) (Cranes, derricks, etc.)

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	$\Gamma \times I$					
			sov/58-59-9-2104 4			
		Translation f	rom: Referativnyy Zhurnal Pisika, 1959, Nr 9, p 234 (USSR)			
		AUTHORS	Molchanov, A.P., Gyunninen, E.M., Hel'nikov, A.V., Molchanov, Al.P., Ryasnikov, L.L., Ryaskov, V.M., Skripov, P.I., Pilippov, M.M.			
		TITLE:	Results of the Observations of the Solar Eclipses of 1952 and 1954 at a Wavelength of 3.2 cm			
		PERIODICAL:	V ab.: Polnyre solnechn, zatmeniya 25 fevr. 1952 g. 1 30 iyunya 1954 g.			
. 30			Moscow, AM SSGR, 1958, pp 331 - 332			
		ABSTRACT:	The authors give the results of the redio observations of the solar			
			eclipses of 25 Feb. 1952 and 30 June 1954. The residual intensities of the sun's radio emission amount to < > and 0.98% respectively.			
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L 36331-66

ACC NR: AT6012894

SOURCE CODE: UR/0000/65/000/000/0155/0159

AUTHOR: Krinchik, Ye. P.; Rysakova, S. L.

70 B+1

ORG: None

TITLE: The effect of the significance factor of a signal on information processing by man

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo

Nauka, 1965, 155-159

TOPIC TAGS: bionics, information processing, psychology, man machine communication

ABSTRACT: The authors discuss experiments designed to determine the effects of psychological factors such as the degree of signal significance on information processing by man in choice-making situations. The authors cite experiments conducted at the Department of Psychology, MGU (Otdeleniye psikhologii MGU) under the supervision of Prof. A. N. Leont'yev. The results of these experiments were published ("Voprosy psikhologii" 1962, No 6). Leont'yev studied the effect of the degree of signal significance on reaction time as a function of the quantity of average information. Similar experiments were conducted in which selection reaction time as a function of the quantity of average

Card 1/2

L 36331-66

ACC NF: AT6012894

information was studied under conditions of work with signals, characterized by various degrees of significance. Various reinforcements and degrees of signal significance were used. The results of these experiments showed that changes in reaction time and rate of information processing take place in conformity with the degree of signal significance which the subject formed under various types of reinforcement. Orig. art. has: 2 figures.

SUB CODE: 05 / SUBM DATE: 02Aug65 / ORIG REF: 001

Card 2/2 00

RYSAKOV	A, Ye.N., kand.med.nauk Protective action of vaginal	bacilli. Report No.2: Antibiotic	
	properties of vaginal bacilis no.32:146-152 '61.	i. Sbor.rab.Sverd.med.inst. (MIRA 16:2)	
	l. Iz kafedry mikrobiologii S instituta.	and the second s	
	(ANTIBIOSIS)	(BACILLUS VAGINAE)	

Protective action of vaginal bacilii. Report No. 1: Antagonistic properties of vaginal bacilli. Sbor.rab.Sverd.med.inst. no. 32: 142-146 '61. (MIRA 16:2)

1. Iz kafedry mikrobiologii Sverdlovskogo meditsinskogo instituta.
(BACILLUS VAGINAE) (ANTIBIOSIS)

38632 s/076/62/036/006/006/011 B124/B110 Pokhil, P. F., Romodanova, L. D., and Rysakova-Romashkan, Combustion of binary model oxidant - fuel mixtures Zhurnal fizicheskoy khimii, v. 36, no. 6, 1962, 1331-1332 TEXT: Pressed specimens (c = 1.9-2.0) were examined at a pressure of approximately 10^{-2} mm Hg in order to study the combustion of the stoichiometric mixtures KClO₄ - naphthalene (I) and KClO₄ - starch (II). At this pressure, the mixture (II) becomes self-igniting and burns without flame on heating to 560°C. Approximately 120 cal/g heat was emitted

Card (1/2)

11.2110 AUTHORS:

PERIODICAL:

TITLE:

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during decomposition in the reactive layer of the condensed phase. When the mixture (II) was heated in vacuo to 560°C, it formed 100-110 cm3

gaseous products per g of mixture and about 65% smoke which burned in the air on ignition. A liquid phase formed at the surfaces of the two mixtures studied. The surface temperature was approximately 640°C in mixture II.

Combustion of binary model ...

S/076/62/036/006/006/011 B124/B110

When heating mixture I to 80°C, naphthalene sublimed and at about 620°C it decomposed to gaseous products. Complete combustion of the two mixtures was observed to occur at a pressure of approximately 20 kg/cm². The combustion mechanisms of the two mixtures may thus be assumed to resemble that of ballistite powders. There are 1 figure and 1 table. The English-language reference is: W. H. Andersen, K. W. Bills, E. Mishuck, G. Moea, R. D. Schulz, Comb. and Flame, no. 3, 301, 1959.

ASSOCIATION: Akademiya nauk SSSR, Institut khimicheskoy fiziki

(Academy of Sciences USSR, Institute of Chemical Physics)

SUBMITTED: June 19, 1961

Card 2/2

RYSALIEW, M. I VSYAKIKH. A. S.

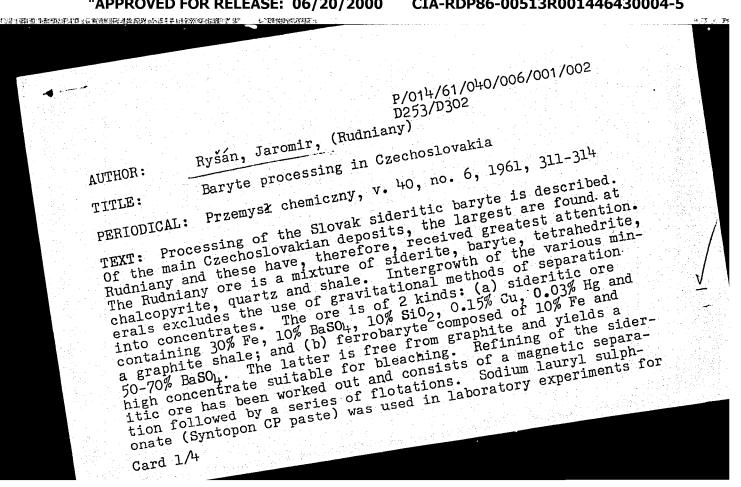
25150. RYSALI V. M. I VSYAKIKH. A. S. Plemennoe Zhivotnovodstvo Soukhozov
Kirgizii. Sots. Zhivotnovodstvo, 1949. No. 3, S. 28-33

S0: Letopis' No. 33, 1949

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		1. Rudniany, Spiska	Nova Ves, Czeehoslovakia		
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P/014/61/040/006/001/002 D253/D302

Baryte processing...

The process will come into operation upon the completion of the new plant at the end of the 3rd-5-year plan. Eventual attainment of 97% BaSO₄ in the concentrate is expected. Ferrobaryte will be refined intermittently as required by the same method and at the same plant, yielding a concentrate which may then be bleached and processed into pigment. To meet critical demand, flotation of ferrobaryte was first carried out in 3 copper refineries in 1956 and was later centralized in a single plant. Composition of the concentrates obtained is tabulated. For flotation, the ore must be crushed (70-80% below 200 mesh), suspension density should be 250-300 g/l, and 0.8 Kg oleic acid, 1.2 sion density should be 250-80% water glass must be added per ton of Kg Syntonpon CP and 0.45 Kg water glass must be added per ton of ore. Further chemical processing of the barytic concentrate in 1956 gave rise to a number of problems as the materials could not be utilized directly due to the unfavorable chemical composition and fineness; thus even direct reduction to BaS proved impossible and fineness; thus even direct reduction to BaS proved impossible because of excessive (>70.6 %) Fe2+ content. It was found that because of excessive (>70.6 %) Fe2+ content. It was found that at least 90% BaSO4 and not more than 1.5% SiO2 and 5.3% R2O3 were

Card 2/4

Baryte processing ...

P/014/61/040/006/001/002 D253/D302

needed for successful reduction. A baryte extraction plant was opened on 1.7.1957 and continues production to the present day. The chemical treatment processes are then described. The processes are fairly costly due largely to acid corrosion of the equipment. On the chemical side, the yield of baryte concentrate is 0.02-0.06 t/hr/m³ of extraction vessel and requires 2.3 Kg of 100% H₂SO₄ per Kg of Fe dissolved. The losses amount to 5.4% during removal of siderite and a further 1.6% in fines. Additional losses include $\sim 3\%$ during the reduction to BaS₁ as dust. It is estimated that 2000 Kg of pure concentrate are needed for 1 ton of BaS. Some of these losses may be avoided, e.g. by more efficient dust catching or granulation of the reduction mixture and general improvements are anticipated in the future. Methods of bleaching the flotation concentrate with acidic wastes from the production of titania white were evolved in 1956-58 for ores containing no elemental C. Standards for such concentrates are the same as for the reduction. A continuous bleaching process was devised in 1959 and will be put into operation in 1961,

Card 3/4

Baryte processing...

P/014/61/040/006/001/002 D253/D302

employing the same equipment for both chemical refining and bleaching. At present BaS production is carried out in the same equipment as used for chemical refining. In the latter, 1.5 t of concentrate are treated with lm^3 of waste acid at 90°C , for $l\frac{1}{2}$ hours. In multistage flotation dark foam collects in the first few tanks and light in the last. The products consist of a light suspension (\sim 1800 g/l) and a dark foam containing \sim 15% of baryte concentrate. The suspension is filtered, washed, filtered again and converted to BaS. The fines yield bleached baryte and pigment. Concentrate collected by the foam is reduced to BaS. Refinement of baryte for the petroleum industry, by the removal of flotation reagents and finer granulation, is now being investigated. Large scale production of baryte concentrates and of a wide range of Ba compounds is expected in the near future. There are 1 figure and 2 tables.

ASSCCIATION: Spiska Nova Vés, Rudniany, ČSRS

Card 4/4

RYSAN, Vaclav; SVOBODA, Zdenek

A hundred-channel amplitude analyzer. Jaderna energie 6 no.5: 167 My '60.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Praha.

85027 z/036/60/000/005/004/004 A201/A026

9,6000 (1024, 1099, 1160)

AUTHORS:

Svoboda, Ryšan, Václav;

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TITLE:

100-Channel Amplitude Analyzer

PERIODICAL: Jaderná energie, 1960, No. 5, p. 167

The Ústav jaderné fysiky (Institute of Nuclear Physics) built a 100-channel amplitude analyzer with a nickel-wire magnetostriction memory. The apparatus is of cabinet design with power sources mounted in the lower half and two vertically mounted drawers of the apparatus proper in the upper half. Radiation hitting the detector is converted to electric pulses, whose amplitude corresponds with the energy of the radiation. The analyzer directs these pulses into the individual channels according to their respective amplitudes. The apparatus operates on the principle of amplitude-to-time conversion with pulses being stored in a magnetostriction memory. The spectrum measured is indicated on a screen in the binary system in the form of permanent bright spots. Amplified pulses are fed to the analyzer where they are further amplified and shaped. Subsequently, they pass through a gate to the comparator circuit. Here their amplitude is compared to a linearly increasing, periodically repeating sawtooth

Card 1/3

85027 27038/60/000/005/004/00¹ A201/A026

100-Channel Amplitude Analyzer

voltage. The result obtained is a time period defined by the starting point of a sawtooth and the point of agreement. The pulse obtained is recorded in the channel corresponding with the established time period. The number of channels is variable by a switch in 4 stages (60. 80, 100, and 120 channels). The memory consists of a 6.5 m long, 0.15 mm diameter nickel-plated wire. Its delay is 1,300 µsec. It is capable of storing a maximum of 1,200 pulses with a repeating rate of 1 Mc. Additional measurements, e.g., with a two-crystal sum spectrometer, are made possible by a switch-cor rolled gating circuit. Pulses of the integrated spectrum are extracted from an independent output terminal. The readout of the spectrum from the screen is facilitated by the division of channels into groups of five, and by a transparent grating with numbers indicating the channel capacity at a given point on the screen. However, this arrangement is far from being ideal and, therefore, an automatic readout attachment with an electric calculating machine is being developed. Technical data: Number and capasity of channels: approximately 106 pulses with 60 channels, 3 x 104 pulses with 80 channels, 4 x 103 pulses with 100 channels and 103 pulses with 120 channels. Width of channels: 3.3 v with 60 channels, 2.5 v with 100 channels, 2 v with 100 channels, and 1.6 v with 120 channels. Resolving power: 1.4 msec. Gating circuit: channel closes by positive pulse, opens by negative pulse.

Card 2/3

85027

100-Channel Amplitude Analyzer

Z/038/60/000/005/004/004 A201/A026

ber of vacuum tubes per channel: 0.77. Power input: 1 kw. There are: 1 photograph and I English reference.

ASSOCIATION: Ústav jaderného výzkumu ČSAV (Insitute of Nuclear Research, CSAV)

in Prague

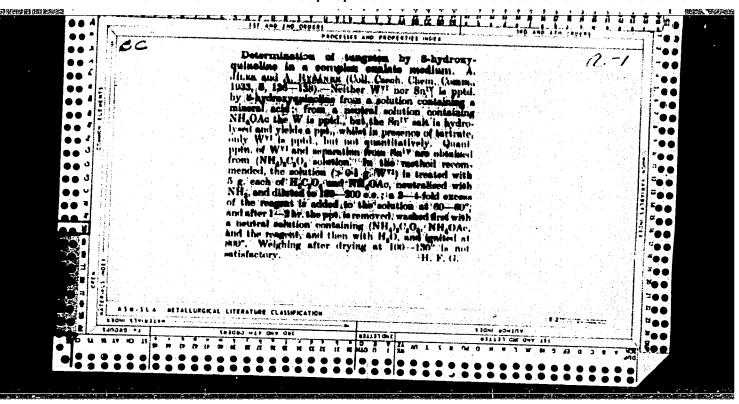
Card 3/3

RYSANEK, Antonin; PARIZKOVA, Dagmar

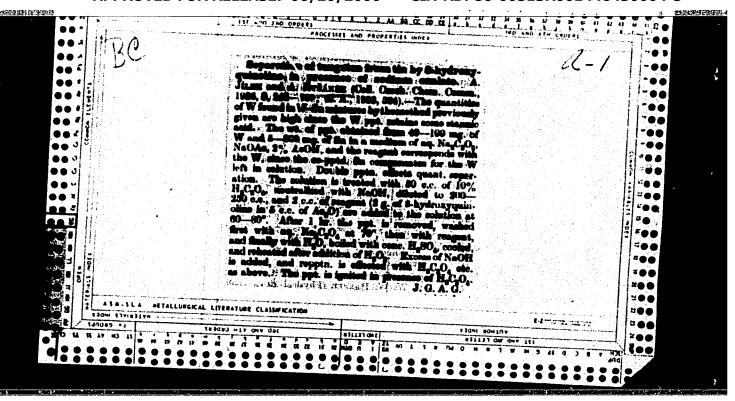
Preparation of pearl polyvinyl acetate. Chem prum 12 no.5:271-274 My '62.

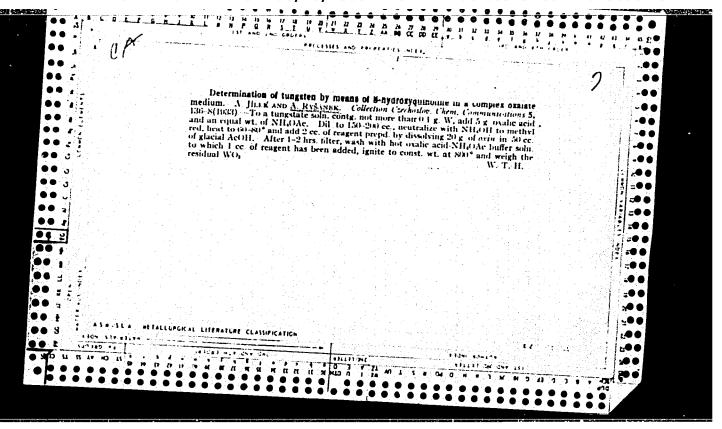
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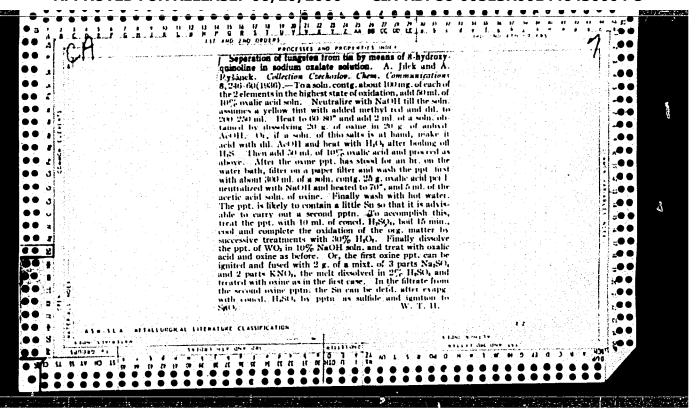
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RYSANEK,	A.		
	Distr: 4E2c(j) / Preparation of concentrated synthetic latexes. Antonin. Ryšánek (Výzk. úst. makromolekulární chem., Brno, Ryšánek (Výzk. úst. makromolekulární chem., Brno, Czech.). Them. pramsyl 10, 100-2(1960). The influence Czech.).	- 14 1-9:9 (db)	
	tions; a theoretical treatment is given of the dependence of the conen. of emulsifier (C) and the rate of addn. of the latter on the no. (N) and the diam. of the particles (L), and	1930	
	on the conen. of polymer in the later (1). In the interpretation of the relations between C, N, L, and c the interpretation of the emulsion polymerization can be estd. [1] conditions of the emulsion polymerization can be estd. [2] J. Sebander		

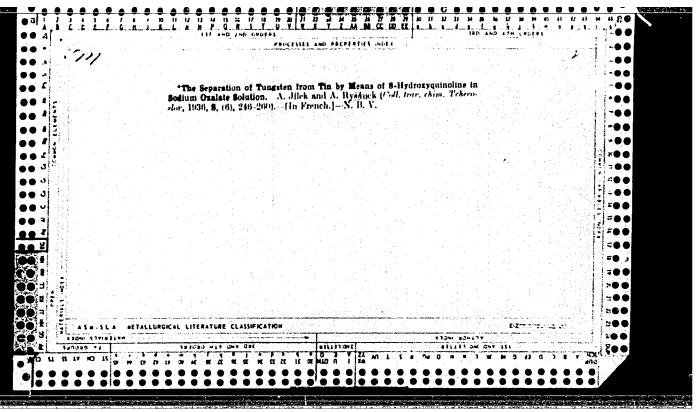


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