CIA-RDP86-00513R000826310016-4

KRAYTSUY, YEP.

ANDROS, I.P., insh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BOMLIARENKO, A.P., inzh.; BUCHNAV, V.K., kand. tekhn. nauk; VKFESKULUV, G.P., kand. tekhn. nauk; VOLKOV, A.F., inzh.; GELESKUL, H.J., kand. tekhn. nauk; GORODNICHEV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk: MEPIFANTSEV, Yu.K., kand. tekhn, nauk.; YERASHKO, I.S., inzh.; ZHEDANOV, S.A., kand. tekhn, nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, B.M., inzh.; ZORI, A.S. inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.N., dots.; KITAYSKIY, E.F., inzh.; KRAVTSOV. Ve.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand, tekhn, nayk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY, A.L., inzh.; MINDELI, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYYENBURG, V.Ye., kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, E.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMEVSKIY, V.N., doktor tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKRUT, A.A., inzh.; SUKHANOV, A.T., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., 122h.; KHOKHLOVKIN, D.M., insh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn, nauk; YAKUSHIN, N.P., kand. tekhn, nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPIUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T., (Continued on next card)

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KAALTSOV, YE P.

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV, S.S., kand. whhn. nauk,; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye,, inzh.; BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY, I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY, I.N., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSEKHOVSKIY, L.K., 1nzh.: VRUBLEVSKIY, A.A., inzh.: GERSHMAN, S.G., inzh.; GOLUBYATNIKOV, G.A., inzh.; GOHLIN, M.Yn., inzh.; GRAMMATIKOV, A.N., inzh.; DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.; DROZDOV, P.F., kend. tekhn. muk.; KOZLOVSKIY, A.A., inzh.; KIRILENKO, V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk,; KORETSKIY, M.M., inzh.; KUKHARCHUK, I.N., inzh.; KUCHER, M.G., inzh.; MERZLYAK, M.V., inzh.; MIRONOV, V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.; PANKRATI YEV, N.B., insh.; PARKHOMENKO, V.I., kand. blol. mauk,; PINSKIY, Ye.A., Ingh.; FOLLUBNYY, S.A., ingh.; PORAZHENKO, F.F., ingh.; PUZANOV. I.G., inzh.; REDIN, I.P.inzh.; REZNIK, I.S., kend. tekhn. nauk,; ROGOVSKIY, L.V., inzh.; RUDERMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.; SADOVNIKOV, I.S., inzh.; SEVER'YANOV, N.N., kand. tekhn. nauk,; SEMESHKO, A.T., inzh.; SIMKIN, A.Kh., inzh.: SURDUTOVICH, I.N., inzh.; TROFIMOV, V.I., inzh.; FEFEH, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN, M.S., inzh.; CHERESHNEY, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN, M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.: STANCHENKO, I.K., otv. red.; LISHIN, G.L. inzh., red.: KRAVTSOV, Ye.P., inzh., red.; GRIGOR'YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY, I.P., red.; LETTMAN, L.Z., red.[deceased],; GUREVICH, M.S., inzh., red.; DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV, S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nguk, red: LISTOPADOV, N.P., inzh., red.; MENDELEVICH, I.R., inzh., red. [deceased]; (continued on next card)

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AGALINA, M.S.... (continued) Card 2. REWTKOVSKIY, N.I., inzh., red.; ROZEMBERG, B.M., inzh., red.; SLAVIN, D.S., inzh., red.; PEDOROV, M.P., inzh., red.; TSIMBAL, A.V., inzh., red.; SMIRHOV, L.V., red. izd-va.; PROZOBOVSKAYA, V.L., tekhn. red. [Mining ; an encyclopedic handbook] Gornoe delo; entsiklocheskii provchnik, Moskya, Gos. axuchne-tekhn. izd-vo lit-ry pe ugol'and' provshi. Vol. 3. Organizstion of planning; Construction of surface buildings and structured) Organizstiia proveniia; Stroitel'stres idanii i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12) (Mining englneering) (Building)

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STANCHENKO, I.K., inzh.; KRAVTSOV, Ye.P.

"Safety engineering in coal mines" by A.S. Stugarev, IA.L.Polesin. Review by I.K. Stanchenko, E.P. Kravtsov. Shakht. stroi. 5 no. 1:31-32 Ja '61. (MIRA 14:2) (Coal mines and mining--Safety measures) (Stugarev, A.S.) (Polesin, IA,L.)

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KRAVISOV, Ye.P., inzh.

Organization of design and planning in the coal industry of Great Britain. Shakht.stroi. 6 no.2:28-30 F '62. (MIRA 15:2) (Great Britain--Mining engineering)

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International conference on special technological problems of mine construction in the German Democratic Republic in Freiberg. Shakht.stroi. 8 no.1:29-31 Ja '64. (MIRA 17:4)



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KRAVTSOV. YE, and OSIFOV, O. A.

Physico-Chemical Study of the Interaction of Titanium Chloride and Ethyl Formate, Page 216, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766

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KRAVISOV, Ye. Ye.: "Electroreduction and electrocxidation in colutions of the salts of the oxygen acids of sulfur, using ammonium persulfate as an example". Rostov na Donu, 1997. Rostov na Donu State V imeni V. M. Molotov, Chair of Physical and Colloid Chemistry. (Dissertation for the Degree of Candidate of Chemical Sciences)

SC: <u>Enizhnaya Letopis</u>, No. 40, 1 Oct 55

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CIA-RDP86-00513R000826310016-4

AUTHORS:	Kletenik, Yu. B., Osipov, O. A., 567/79-29-1-4/74 Kravtsov, Ye. Ye.
ŢITLE:	Coordination Compounds of Zirconium Tetrachloride With Esters of Monobasic Acids. XV (Koordinatsionnyye soyedineniya tetrakhlorida tsirkoniya so slozhnymi efirami odnoosnovnykh kislot. XV)
PERIODICAL:	Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 11-16 (USSR)
ABSTRACT:	In the previous paper (Ref 1) dealing with the complex com- pounds of zirconium tetrachloride with esters of monobasic acids it was shown that the formation of the complexes of the type $\text{ZrCl}_4.2\text{RCOOR}_1$ is accompanied by an intensification of the polar properties. In such complex compounds zirconium has the coordination number 6 which is characteristic of this element. According to Sidgwick (Ref 2) it shows coordination numbers of the order 5.6 7 and 9 it its complex companies
	numbers of the order 5, 6, 7 and 8 in its complex compounds. It is the aim of the present paper to investigate the presence of complexes where zirconium has the minimum coordination number five. Therefore, compounds of the composition
Card $1/3$	ZrCl ₄ .RCOOR ₁ were investigated in benzene solution as prepara-

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TE TREESE STREET ST Coordination Compounds of Zirconium Tetrachloride 307/79-29-1-4/74 With Esters of Monobasic Acids. XV tive method, and with respect to the polar and cryoscopic properties. The determination method of the dipole moments, molecular weights and the purification of the used products had already been described in an earlier paper (Refs 1, 3, 4). The following complexes were separated and analyzed: 2rc1₄.Hcooc₂H₅, 2rc1₄.Hcooc₃H₇, 2rc1₄.cH₃cooc₂H₅, ZrCl₄. CH₃COOC₃H₇ and ZrCl₄. C₃H₇COOC₂H₅. Their dipole moments were determined in benzene. It was found that with increasing partial weight of the acid radical in ether the dipole moment of the complex decreases. The molecular weights of the abovementioned complexes were determined according to the cryoscopic method. The cause for the tendency of the complexes towards association was explained. The triple complexes ZrCl_4 .HCOOC₂H₅.C₆H₆ and ZrCl_4 .HCOOC₂H₅.C₆H₅CH₃ were also separated and analyzed. There are 12 tables and 8 references, 4 of which are Soviet, ASSOCIATION: Rostovskiy gozudarstvennyy universitet (Rostov State University) Card 2/3

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KRAVTSOV, YE. YE. 1919 5/051/61/000/025/056/061 1,1800 2408 a138/8101 AUTHORS: Kovalenko, P. N., Rozin, G. N., Osipov, O. A., Yevatifeyev, M. M., Kravtsov, Ye. Ye TITLE: Anodizing in the presence of chloride ions, and the quality control of exide films on the alloy Ai6T (D'0T) Referativnyy zhurnal. Khimiya, no. 25, 1961, 526, abstract 25%154 (Sb. "Fiz.-khim. metody analiza i kontrolya proiz-va", Rostov-na-Donu, Rostovsk. un-t, 1961, 97-102) PERIODICAL: TEXP: An investigation is made of the effect of the presence of Cl^2 (0.5 g/liter) in the tank, on the potential, depth of oxide film and drop test time in the alloy Di6T in the process of anotizing in 20 [6 H₂CO₂] X It is found to improve the potential of the anodizing alley, producing more porous exide films without affecting the depth or rate of growth. It is suggested that clad sheet Di6P Duralumin could be anodized in the presence of <0.5~g/liter Cl⁻. Optimum conditions for anedizing, with er without chlorides, have been found to be $D_n \ge a/dn^-$ and 30 mins. [Abstractor's note: Complete translation.] Card 1/1 ÷.,.

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31970 \$/081/61/000/023/037/061 11800 2406 B138/8101 AUTHORS: Kovalenko, P. N., Rozin, G. N., Ogipov, O. A., Yevstifeyev, M. H., Kravtsov, Yo. Yo. TITLE: Filling and quality control of the anodised alloy A16 F (D16T) in the presence of chloride and sulphate ions. II information PERIODICAL: Referativnyy zburnal. Khimiya, no. 23, 1961, 328-329, abstract 23K155 (Sb. "Piz.-khim. metody analiza i kontrolya proiz-va Rostov-na-Donu, Rostovsk. un-t, 1961, 103-114) TEXT: A study has been made of the effect of the presence of Cl and SO_4 on the process of the filling of oxide films on the alloy D16T in a solution of $K_2Cr_2O_3$ (50 g/liter) at a temperature of 90 to 95°C. The dependence of the quality of the film (drop test and depth of film) on the concentra-tion of the mixed ions is explained. The SO_4^{2-} is found to suppress the adsorption of chromate ions, and this is the reason for the lighter colour of the films. It is recommended that films which are formed at high D_a values should undergo a longer period of filling. It is quite possible to increase the permissible impurity maximum in the filling tank from 1.5 to 3 and from 3 to 6 g/liter of chloride and sulphate ions respectively. [Abstracter's note: Complete translation.] 1150-1

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CIA-RDP86-00513R000826310016-4

S/137/62/000/001/202/237 A154/A101

AUTHOR: Kravtsov, Ye. Ye. TTTLE: On the influence of Fe²⁺ and Fe³⁺ sulfates on the process of sulfuric-acid pickling

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 88, abstract 11621 ("Nauchn. zap. Luganskogo s.-kh. in-ta", 1960 [1961], no. 7, 103-202)

TEXT: The pH of H_2SO_4 solutions with additions of Fe^{2+} and Fe^{3+} sulfates was measured. The non-additivity of the combined action of ferrous and ferric sulfates on the pH was shown. Steel was pickled in H_2SO_4 solutions, and an equation was proposed for calculating the corrosion losses of Fe. The process of pickling steel in H_2SO_4 with additions of ferrous sulfate was studied. FeSO₄ somewhat retards the solution of Fe at low acid concentrations. The rate of mended for accelerating the pickling. The effect of an addition of ferric sulfate on the steel-pickling process was studied. It was established that $Fe_2(SO_4)_3$ in sufficient concentrations has an accelerating effect on the

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LYSENKO, Yu.A.; OSIPOV, O.A., KRAVISOV, Ye.Ye.

On the existence of titanium etherates. Zhur.neorg.khim. no.3:663-667 Mr ¹63. (MIRA 16:4)

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 Luganskiy sel'skokhozyaystvennyy institut, kafedra obshchey khimii. (Titanium compounds) (Esters)

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Evaluation of combined ...

In systems with high selectivity as in expression (2) only those combined frequencies which are within the pass-band of the system have to be taken into account. Thus, in a single circuit parametric and in a double circuit regenerative amplifiers, it is enough to retain terms with indices n = 0 and -1 and n = 0 and n = +1respectively. In the present article, the author evaluates the amplitudes of all combined frequencies as expressed by Eq. (2) for a system with one periodically varying capacitance only (Fig. 1)

Fig. 1.

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s/141/62/005/001/015/024 E039/E135 りょうつつ Akhmanov, S.A., and Kravtsov, Yu.A. AUTHORS : TITLE: A two-circuit generator with a nonlinear capacity PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v.5, no.1, 1962, 144-154 TEXT: The characteristics of a two-circuit parametric oscillator containing a nonlinear capacity as a control reactance are investigated. The parametric resonance curves, the form of the unstable regions, and the amplitude characteristics are calculated on the assumption that the limitation of a stationary amplitude is caused by the nonlinear capacity. Special attention is paid to the factors determining the frequency of the instabilities, in particular to the nonlinear correction to the frequency. The regimes where the nonlinear corrections have little influence on the frequency stability are indicated, and the stable phases of the output oscillations are discussed. Experiments were carried out on a two-circuit oscillator using a germanium diode, with a p--n transition, as the control capacity Card 1/2

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A two-circuit generator with a ...

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at frequencies of 12-13 mc/s. It is shown that the limitation of a stationary amplitude in such an oscillator is mainly accounted for by the nonlinear capacity of the diode. Graphs are given showing the resonance curves for the oscillator at a feed frequency near to 13 mc/s. The observed deviation from a linear dependence is due to higher order terms in the characteristic of the nonlinear capacity. Graphs are also presented showing the dependence of the nonlinear correction to frequency on the amplitude of the feed frequency for a number of conditions. Good agreement is obtained between these experimental results and the theory presented in the first part of the paper. There are 6 figures. ASSOCIATION: Moskovskiy gosudarstvennyy universitet

(Moscow State University) SUBMITTED: July 7, 1961

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34035 S/109/62/007/001/013/027 9.2580 (1040, 1159, 1163) D201/D301 AUTHOR : Kravtsov, Yu.A. TITLE: An oscillator with a parametric feedback PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 1, 1962. 113 - 119The principle of the parametric feedback has been suggested TEXT: by S.M. Rytov and in the present article the author considers the two-circuit oscillator with such a feedback, analyzes the stability of its steady state of operation and gives the results of experi-mental oscillator investigation. The circuit diagram of the oscil-lator is given. The principle of operation is based on two resonant circuits coupled with each other by a non-linear capacitance C and a non-linear conductance g. When oscillating, currents and voltages in the two circuits have frequencies ω_1 and ω_2 which differ slightly from the resonant frequencies of the system Ω_1 and $\Omega_2(\Omega_1 \neq \Omega_2)$: $\omega_1 = \Omega_1 + \Delta \omega_1, \ c_2 = \Omega_2 + \Delta \omega_2,$ (1)Card 1 302日以来新闻书籍和中国的新闻

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An oscillator with a parametric ...

The oscillations are passed through filters Φ_1 and Φ_2 tuned to ω_1 and ω_2 and applied to a mixer which, by means of filter $\mathfrak{D}_{\mathfrak{Z},\mathfrak{P}}$ isolates the voltage at a frequency $\Omega = \omega_1 + \omega_2$ (all filters are designed in such a manner that they may be considered ideal for given frequency bands). After the mixer the pump frequency voltage is applied to an amplifier and a phase shifter and then to the non-linear capacitance c, so that the feedback loop contains a varying reacti-ve parameter. The capacitance C with conductance g consist of those of a p-n junction of a biased junction diode. As a result of modulation of the capacitance at frequency Ω , nearly equal to the sum of resonant frequency of resonant circuits, the system goes into oscillations. With the increase of oscillation amplitude the diode becomes conducting, the losses sharply increase, the rise in amplitude of oscillations is stopped and eventually a steady state of oscillation is obtained. The analysis of the steady state shows that the oscillator is not isochronous because the frequency of oscillations depends on the feedback factor, and that the oscillator may be excited either by applying an oscillating voltage to one of the Card 2/3

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An oscillator with a parametric ...

resonant circuits or parametrically, by applying a voltage at frequency Ω to the feedback capacitor C. The experimental oscillator, excited by an external sinusoidal e.m.f. was operating satisfactorily with both types of excitation. The external e.m.f. had frequency F = 3300 kc/s, $f_1 = 920$ and $f_2 = 2380$ kc/s, filters Φ_1 and Φ_2 were tuned to f_1 and f_2 respectively, with filter Φ_3 tuned to $f_1 + f_2 = 3300$ kc/s. The HF amplifier had gain k = 0 - 150. The phase shifter used was in the form of a delay line with time delay $\tau = 0$ - 0.3 μ sec. so that the phase shift of u_3 could be varied from 0 to 2π . The parametric feedback element used was diode $A\Gamma I_{\rm I}$ -27 (DG Ts-27). The experiment proved the possibility for a practical design of a parametric feedback sharply oscillating oscillator, and that the experimental results are in qualitative agreement with its theory. The author acknowledges the setting of the problem and supervision by S.M. Petrov. There are 6 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: D. Macov, Novel circuit for a variable frequency oscillator, Proc. IRE, 1956, 44, 8, 1031.

SUBMITTED: February 9, 1961 Card 3/3

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KRAVTSOV, Yu.A.

Excitation regions and energy relationships in a two-stage transistor diode parametric oscillator. Radiotekh. 1 elektron. 8 no.10:1685-1691 0 '63. (MIRA 15:10)

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SHISHLYAKOV, A.V., kand. tekhn. nauk; MIKHAYLOV, A.F., inzh.; KRAVTSOV, Yu.A., inzh.; OKORKOV, V.A., inzh.; REMESH, V.V., inzh. Operation of pulse-type track circuits on tracks with reinforced concrete ties. Avtom., telem. i sviaz' 7 no.7:4-7 Jl '63.

(MIRA 16:10)

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KRAVTSOV, Yu.A.

Saturation power of some types of amplifiers with nonlinear capacitance. Radiotekh. i elektron. 8 no.9:1545-1551 S '63. (MIRA 16:9) (Amplifiers (Electronics))

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<u>L 15182-65</u> EWT(1)/T/EEC(b)-2 IJP(c) ACCESSION NR: AP4048261 S/0141/64/007/004/0664/0673 AUTHOR: Kravtsov, Yu. A. TITLE: Concerning one modification of the method of geometric optics SOURCE: IVUZ. Radiofizika, v. 7, no. 4, 1964, 664-673 TOPIC TAGS: wave analysis, ray optics, geometric optics, caustic ABSTRACT: In order to extend the applicability of geometrical optics to the vicinity of a caustic surface, the solution of the scaisr wave equation is sought in the form of a product of an exponential function and the sum of the Airy function and its derivative with specially chosen multipliers to adapt the solution to the description of the field near the caustic surface. With such a solution, the eikonal equation holds true near the caustic as well as away from the caustic, except that it applies not to the phase of Card 1/3

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L 15182-65 ACCESSION NR: AP4048261 the wave but to some function of the arguments of the exponential and the Airy function. This function approaches the phase of the wave asymptotically with increasing distance from the caustic (apart from a constant). In addition to providing an intuitive ray treatment, this approach makes the solution of the wave equation near the caustic no more complicated than other existing methods. The method makes it possible to calculate the fluctuations of the phase and intensity of the wave passing near the caustic in the presence of large scale statistical inhomogeneities in the medium, such as obtained in the ionosphere. Although the procedure applies to the case when there is only one caustic surface without singularities, more complicated cases can be treated by using more complicated functions. "The author thanks S. M. Ry*tov for guidance and B. Ye. Kinber for valuable comments." Orig. art. has: 2 figures and 25 ASSOCIATION: Radiotekhnicheskiy institut AN SSSR (Radio Institute Card 2/3

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L_38104-65 EWT(1)/T/EEC(b)-2 ACCESSION NR: Pq-4/P1-4 AP5006017 IJP(c) 8/0141/64/007/006/1049/1056 AUTHOR: Kravtsov, Yu. A. TITLE: Asymptotic solution of Maxwell's equations near a caustic SOURCE: IVUZ. Radiofizika, v. 7, no. 6, 1964, 1049-1056 TOPIC TAGS: Maxwell equation, wave equation, geometrical optics, wave propagation, AESTRACT: This is a continuation of an earlier paper (Izv. vysah. uch. zav. -Radiofizika v. 7, 664, 1964) in which the usual method of geometrical optics, as applied to the scalar wave equation, was modified in order to climinate the divergence of the zeroth approximation on the caustic, retaining at the same time the ray picture. In the present article, a similar technique is used to obtain an asymptotic solution of Maxwell's equations near the caustic produced when waves propagate in an inhomogeneous medium. The modification of the geometrical-optics method consists in the fact that the solution is represented in the form of a combination of the exponential function and the Airy function (and its derivative). Card 1/2

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L 38104-65 ACCESSION NR: AP5006017		
in additional rotation of method may be applicable i than made in the article. interest and <u>V. P. Yakovle</u> has: 28 formulas.	r the amplitudes of the electric and magnetic fields of the plane of polarization. The connection betwee hat the passage of a wave near the caustic does not the plane of polarization. It is also shown that the in some particular cases under assumptions more gene w and L. L. Goryshnik for useful discussion." Orig	en s is result he ral uous
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ASSOCIATION: Radiotekhnich <u>ASSR)</u> UBMITTED: 02Mar64 R REF SOV: 004	heskiy institut AN SSSR (Radiotechnical Institute, A ENCL: 00 SUB CODE: EM OTHER: 000	



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ACCESSION NR: AP40436	86		
up. "The author wishes to S. A. Akhmanov for discus 24 formulas.	thank M. Ry*tov sing the results." (for his attention to the work, ar Drig. art. has: 1 figures and	nd
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<u>L 58798-65</u> EL ACCESSION NR:	T(1)/EEC(b)-2/EWA(b)	Pm-4/11-4/Pj-4/	191-li/Pab		
AUTHOR: Kravts	ov, Yu. A.; Csipov, G.		021.385.9.9	000/011/0041/004 4/1 B	1
SOURCE: Byulle	etric amplifier. Class 25 ten' izobreteniy i tova	rnykh znakov, n	0. 11, 1965, 4	1	
TOLIC THES: DE	sametric amplifier, foo	dhaak amaliat	a the second		
ABSTRACT: This the Enclosure) to band product is form of a section is connected to vide frequency in SSOCIATION: Pr	Author Certificate int Author Certificate int with a semiconductor di increased by making the on of coaxial line or a the delayed feedback cl ange. Orig. art. has: edprivative gosudarstve he State Committee for	roduces a parama ode as the nonli- e wide band dela waveguide segme incuit to provid l figure.	etric amplifier inear reactance wed feedback c ent. A rectifi le unidirection	to The mu-pass- sircuit in the er or circulator al feedback in a [14]	



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L 00560-66 EWT(1)/FCC/EWA(h) GW	
ACCESSION NR: AP5021006	UR/0203/65/005/004/0762/0766 550.388.2:621.391.81 49 A.; Rudakov, V. A.; Rytov, S. M. 48
WTHORS: Gringauz, K. I.; Kravtsov, Yu.	A.; Rudakov, V. A.; Rytov, S. M.
TITLE: On the possibility of determinin dispersion method with the help of artif maximum in the ionosphere	local plantnon concentration i u
BOURCE: Geomagnetizm i aeronomiya, v. 5	, no. 4, 1965, 762-766
	ization, artificial satellite, ionosphere,
$N/\partial x$, $\partial N/\partial y$, and $\partial N/\partial t$ must be in icant in comparison with N . These way	dispersion methods for measuring N _c in the ites are valid, the various gradient terms vestigated to detormine if they are signi- ious gradient terms that appear in the shift between frequencies ω_1 and ω_2 are
	$\int_{\partial \Phi} \int_{\partial z} \frac{\partial N}{\partial z} s ds \left[\frac{\partial N}{\partial y} \right] = \frac{1}{s_0 \cos \varphi_0} \frac{\delta N}{\delta y} s ds.$
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L 00560-66 ACCESSION NR: AP502100	D6	
A detailed analysis is $f(\partial N/\partial t)dS$ are not necess ment, with even more as To demonstrate this, and is shown. Here the max bases the data on the 1 curve in Fig. 1). Radii curve (dotted curve on	made to show that the terms $ \delta N'/\delta y y$, esarily small in comparison to $N_0 z_0/\delta$ surance, can be made about the unsta- altitude versus density curve (see imum in N is above the maximum region ocal dispersion method, neglecting to o-probe methods, on the other hand, Fig. 1). For this reason and because	$\cos \varphi_0$. A similar state- eady term $\int_{0}^{\infty} (\partial N / \partial t) dt$. Fig. 1 on the Enclosure) on of the F-layer if one the gradient terms (solid support only the lower se dispersion measurements
tration data reported b aeronomiya, 1964, 4, No	y previous authors (e.g., Ya. L. Al' • 3, 479). Orig. art. has: 4 formul	with the local concen- pert. Geomagn. i as and 2 figures.
tration data reported b aeronomiya, 1964, 4, No	y previous authors (e.g., Ya. L. Al' • 3, 479). Orig. art. has: 4 formul nicheskiy institut, AN SSSR (Radio T	with the local concen- pert. Geomagn. i as and 2 figures.
tration data reported b aeronomiya, 1964, 4, No ASSOCIATION: Radiotekhn <u>SSSR</u>)	y previous authors (e.g., Ya. L. Al' • 3, 479). Orig. art. has: 4 formul	b with the local concen- pert. Geomagn. i as and 2 figures. Sechnology Institute, AN
tration data reported by aeronomiya, 1964, 4, No ASSOCIATION: Radiotekhy <u>SSSR</u>)	y previous authors (e.g., Ya. L. Al' • 3, 479). Orig. art. has: 4 formul nicheskiy institut, AN SSSR (Radio T	with the local concen- pert. Geomagn. i as and 2 figures.

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ALANTADI, JU.A.

Modified method of geometric optics for a wave genetrating through a caustic. Itv. vys. unhab. dev.; radiofic. 8 no.4:659-667 165. (MIPA 18:9)

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URPLE SHICK SPECIFICATION 6309-66 EMT(d)/EEC(k)-2 RB/VS-2 L 6309-00 ACC NR: AP5026702 SOURCE CODE: UR/0141/65/008/005/0876/0885 47 Kravtsov, Yu. A. AUTHOR: 39 Radio Engineering Institute, AN SSSR (Radiotekhnicheskiy Institut AN SSSR) ORG: TITLE: Application of the method of smooth perturbations to the problem of wave scattering in the vicinity of the reflection point SOURCE: IVUZ. Radiofizika, v. 8, no. 5, 1965, 876-885 TOPIC TAGS: electromagnetic wave scattering, perturbation method, permittivity, electromagnetic wave reflection ABSTRACT: The method of smooth perturbations was used to solve the problem of scattering of a scalar wave in the vicinity of the reflection point. Regions in the vicinity of points where the mean permittivity E becomes zero are considered, and the zero approximation used is the unidimensional Langer-Fock solution, which in contrast to the approximation of geometrical optics has no singularity at such points. Expressions are obtained for spectra of phase and wave-level fluctuations. A number of qualitative conclusions are reached with regard to the role of the inhomogeneities Cord 1/2 621.371.18 UDC:

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L 6309-66 ACC NR: AP5026702 located in the reflection zone. "The author expresses his deep appreciation to <u>S.</u> <u>M. Rytov</u> for supervising the work, and to <u>M. L. Levin, L. L. Goryshkin</u>, and <u>V. P.</u> <u>Yakovlev</u> for a useful discussion." Orig. art. has: 2 figures and 21 formulas. SUB CODE: EC/ SUBM DATE: 28Dec64/ ORIG REF: 009/ OTH REF: 001 1 12 Card 2/2

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1 04445-67 EWT(1)/FCC GW
ACC NR: AP6018922 SOURCE CODE: UR/0203/66/006/003/0568/0580
AUTHOR: Gringauz, K. I.; Kravtsov, Yu. A.; Rudakov, V. A.; Rytov, S. M. 63
ORG: Radioengineering Institute, AN SSSR (Radiotekhnicheskiy institut AN SSSR)
TITLE: Once more about the feasibility of local electron concentration determination by the dispersion method using artificial Earth satellites and about the new ionization maxima in the lonosphere
SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 568-580
TOPIC TAGS: ionospheric electron density, ionospheric physics, ionospheric disturbance, ionospheric radio wave, satellite data analysis, geophysic rocket
ABSTRACT: This is the continuation of an earlier debate between the present authors and Ya. L. Al'pert et al. (see, e.g., Geomagn. i aeronomiya, 1 1965, 5, No 4, 766) concerning the feasibility of local electron concentration determination by the dispersion method using arti- ficial Earth's satellites. The authors show once more that the electron concentration deter- mination using such a method leads to inaccurate results because of the presence within the ionosphere of horizontal ionization gradients as well as because of the nonstationary character
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ACC NR: AP6033282	SOURCE CODE: UR/0141/66/009/005/0888/0899
AUTHOR: Kravtsov, Yu. A.;	Feyzulin, Z. I.
ORG: Radio Engineering Ins	titute, AN SSSR (Radictekhnicheskiy institut AN SSSR)
TITLE: Resolution of anter	nas in a turbulent mecium
SOURCE: IVUZ. Radiofizika	, v. 9, no. 5, 1966, 838-899
ABSTACT: The resolution of the case when a flat turbul zone between an axially sym attention was paid to radi The investigation was made by the method of linear mea the radius of the illuminat radiation pattern and arbit at the layer output. The co of reflection coefficient f statistical homogeneity of	nna, atmospheric turbu ence, antenna radiation pattern, . antennas in a turbulert medium was investigated for ent layer is located entirely within the antenna wave metrical antenna and the point of observation. Special oastronomical antennas with a large circular aperture. on the basis of a sequential-diffraction examination surement of the resolving power. Formulas are given for ed zone behind the turbulent layer for an arbitrary rary statistical properties of complex phase fluctuations ase of a Gaussian antenna pattern and a turbulent model luctuations in the layer were examined in detail assuming complex phase fluctuations. The authors thank S. M. f the work, and V. I. Tatarskiy and N. G. Denisov for
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CHUDESOV, I.D.; BORISOV, A.M.; ZAYTSEVA, S.I.; LORGOFOLOV, N.L.; KHAVTSOV, Yu.I.; VOLK, F.I.

> [Technology of the repair of tires of motor vehicles, tractors and agricultural machinery] Tekhnologiia remonta shin avtomobilei, traktorov i sel'skokhoziaistvennykh mashin. Moskva, 1963. 200 p. (MIRA 18:5)

1. Perovo. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut rementa i ekspluatatsii mashinno-traktornogo parka.

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Quality of the pancreas. Mias. ind. SSSR 34 no.4:56-58 '63. 1. Vsesoyuznyy nauchne-issledovatel'skiy institut myasnoy promyshlennosti.

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YEMEL'YANTSEV, Tikhon Matveyevich; KRAVTSOVA, Aleksandra Ivanovna; PUK, Pinkhos Solomonovich; GRAMBERG, I.S., nauchnyy red.; DAYEV, G.A., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Geology, and oil and gas potentials of the lower Lena Valley] Geologiia i perspektivy neftogazanosnesti nizov'ev r. Leny. Leningrad. Gos.nauchn.-tekhn. izd-vo nefti i gorno-toplivnoi lit-ry. Leningr. otd-nie, 1960. 143 p. (Leningrad. Nauchnoissledovatel'skii institut geologii Arktiki. Trudy, vol. 108) (Lena Valley--Petroleum geology) (HIRA 13:2) (Lena Valley--Gas, Natural--Geology)

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<u>I. JOORG-67</u> EUT(1) JK ACC NRI ATGO26365 (A) SOURCE CODE: UR/3209/66/000/001/0042/0050
Orlova, T. N. (Engineer); Kravtsova, A. V. (Engineer)
ORG: DODE
TITLE: The effect of ultrasonics on the process of extraction of <u>biologically active</u>
SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Mezh- vedomstvennyy respublikanskiy nauchno-tekhnicheskiy sbornik, 1966. Akustika i ul'traz- vuk (Acoustics and ultrasonics), no. 1, 42-50
TOPIC TAGS: ultrasonic vibration, ultrasonic effect, cavitation, electrochemical ana-
ABSTRACT: A literature survey of the effects of ultrasonic vibration on biological substances is presented. The chief effect is that of cavitation. Ultrasonic chemical processes are the result of mechanical forces due to cavitation and electrochemical and photochemical effects due to large electrical forces occurring in cavitation reces- ses. If air is present in aqueous solutions, the ultrasonic vibrations form the ac- tive radicals OH, H, and the peroxide H_2O_2 . The oxidizing action of ultrasonics disap- pears upon boiling the liquid, increasing external pressure or adding a protective sub-
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L 10085-67 ACC NR: AT6026365

stance to the solution. In order to prevent the oxidation of insulin, butyloxyanisol is used. In the extraction of biologically active substances by ultrasonics, instantaneous decomposition occurs in cavitation recesses; Harvey and Loomis have shown that a time interval of 1/1200 sec is needed to decompose cells. Auler and Woite applied ultrasonic vibrations to cancerous cells in vitro and showed that initially the cell nuclei were destroyed, the fragments penetrating into the cytoplasm. Among other works discussed were: Tarnochi--the effect of ultrasonics on diffusion acceleration in organic layers, Katte and Specht--the extraction of difficult nuclei by ultrasonics, Shropschire--extraction of oils from fish materials, Kusano--the effect of ultrasonics on the pharmacological properties of hormones and vegetative nuclei, and Wolf and El'piner--the effect of ultrasonics on the purity of insulin preparation. Some experimental work done on the extraction of insulin from pancreas by ultrasonics was described. Here the use of ultrasonics resulted in a greater insulin output, eliminated the need for secondary extraction, shortened the extraction time to a few minutes, and allowed the insulin to preserve its biological activity during acidification. Orig. art. has: 1 figure, 1 table. SUB CODE: 06,07/ SUBH DATE: none/ ORIG REF: 007 Card 2/2

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1. RACHINSKIY, V. V., KNYAZYATOVA, Yo. I., KGAVISOVA, E. Yo.
2. UJSR (600)
4. Chromatographic Analysis
7. Method of preparation and of qualitive analysis of paper chromatograms of sugars.
8. Method of preparation and of qualitive analysis of paper chromatograms of sugars.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

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RACHINSKIY, V.V; KHYAZYATOVA, F.I.; KRAYTSOVA, B.E. Analysis of sugars in plants by paper chromatograph, Biokhimiya 18, 19-23 '53. (CA 47 no.15:7578 '53)
1. K.A. Timiryazov Agr. Acad., Moscov.

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KRAVTSOVA, B. Ye. Cand Biol Sci — (diss) "Formation of the wheat ear in relation to the growth of Vertetative organs of spring wheat". hos,1957. 20 pp with diagrams 22 cm. (Mos Order of Lenin and Order of Labor hed banner State Univ im M.V. Lomonosov). 120 copies. (KL, 23-57, 110).

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APPROVED FOR RELEASE: 06/14/2000 C

Country : Category :	USSR I Plant Physiology, Photosynthesis.
Abs Jour. :	Rof. NorPiologips No. 11, 1950. No. 18494
Institute :	Kravtnave, B. Ya. Moscow University Leaf Surface Area and Its Functional Productivity
Orig. Pub.:	Vestn. a. kh. nauki, 1957, No. 4, 73-82.
Abstract :	Proportionate to the spacing of surfar wheat sowing (from 150 to 50 and 10 grains per running meter, with the flattened spaces between the rows 20 cm in width), it was found in Moskovskaya Oblast in 1954, and 1955 that hear blade area of the primary shoots increased, attaining its mari- mum at spiking. This increase was due to the larger size of the upper leaves (beginning with the fifth), to an augmented number of leaves forming on the shoot (up to 7, instead of 6), and
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Country : USSP I Category : Plant Physiology Photosynthesis. Abs. Jour.: Ref. Zhur.-Blologlys No. 11, 1958. 40.48494 Author • Institute : Title : Orig. Pub .: Abstract : to the lower layers perishing in thinned sowings later on. The Lutescens 62 variety had larger leaf surface areas than the Garnet variety, especially in the upper tiers of leaves. The thinnedout sowings also differed according to the year of cultivation, which was not the case in thick planting. The unit productivity of the leaf surface during the entire vegetative pariod was higher in plants of the thinned sowings than in dense Card: 2/3 2

APPROVED FOR RELEASE: 06/14/2000

Country : USSR Category ; Plant Physiology, Photosynthesis. I Abs Jour. : Bol. Devel-Biclorlys No. 11, 1963. No. 8494 Author : Institute : Title 1 Orig, Pub.: Abstract : plantings, and higher in Lutescans 52 than in the Garnet variety. The spike's socumulation of dry matter, as well as the amount of its productive elements were found to be in direct correlation to the leaf surface area and its operational capaelty. This project was conqueted at Moscow University. The bio(tography lists 19 titles. --B.Ye. Kravtenve Card: 3/3

APPROVED FOR RELEASE: 06/14/2000

KRAVTSOVA, B. Ye.

YARUSHKINA, N. I., kandidat biologicheskikh nauk.; KRAVTSOVA, B.Ye.

Effect of growth stimulants on the yield and quality of some vegetable crops. Dokl. Akad. sel[‡]khoz. 22 no.2:15-17 [±]57. (MLRA 10:5)

1. Moskovskaya ordena Lenina sel'skokhosyaystvennaya akademiya imeni K. A. Timiryazeva. Predstavlena akademikom I. Ye. Glushchenko. (Growth promoting substances) (Vegetable gardening)

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(MIRA 10:9)

KRAVTSOVA, B.Ye. NET - S. LAND & ALL OF THE STORE STORE STORE Nature of the ripening of the spring wheat grain as related to differences in the size of aboveground organs, Dokl. Akad. sel'khoz. 22 no.6:13-17 '57. 1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Predstavlena akademikom I.V. Yakushkinym. (Wheat)

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KRAVTENVA, B YE.

AUTHOR TITLE FERIODICAL	KRAVISOVA B.IC. On the Intensity of Assimilation Froduc By the Density of Sowing in Spring Whea (Ob intensivnosti ottoka produktov ass gustote poseva yarovoy pshenitsy -Russi Doklady Akademii Nauk SSSR,1957,Vol 113 Received 7/1957	t. imilyatsii v zerno pri raznoy an)
ABSTRACT	Published data can be found about the of stances in the plants when snadowed. This formation in the dense stand of grass. In ner in which the seed is supplied by as ditions in the case of different sowing variety "Lutescens 62" was chosen. The per meter, the spacing between the rows atomes of $C^{1\infty}$ the author studied the ra- rations after a 24 hours' exposure of t in an atmosphere of CO_{a} containing $C^{1\infty}$. that the lower leaves hardly play any p ducts to the seed during its growth. This publications, according to which the up portance in this respect. Furthermore, t milation products move intensely from t spite of a double or tripple density of	s will explain the reduced seed the author's aim was to study man- similation products at field con- density used was lo and 150 seeds was 200 mm. By the method of marked diation intensity of seed prepa- he leaves at different stem heights The results given in table 1 show art in supplying assimilation pro- s confirms the data found in other permost leaves are of greatest im- hese results prove that the assi- he upper leaves into the seeds in- plant stand.Cther experimental
Card $1/2$	data show, however, that the action of t	he upper leaves in an open stand is

On the Intensity of Assimilation Products Supply to the Seed, as Affected By the Density of Sowing in Spring Wheat. 20-5-61/67 able to supply agreater number of seeds than in a dense stand. (With 1 table, 8 Slavic references).

ASSOCIATION Moscow State University "M.V.Lomonosov" RESENTED BY KURSANOV A.L., Member of the Academy SUBMITTED 5.10.1956 AVAILABLE Library of Congress Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826310016-4

AUTHOR:	Kravtsova, B. Ye.	20 -4-5 4/60	
TITLE:	On the Rôle of Leaves of Different Storeys in the Formation of Fructification Organs in Spring Wheat(Issledovaniye roli list'yev otdel'nykh yarusov v formirovanil organov pledonosheniya u yarovoy publication).		
PERIODICAL:	Doklady Akademii Nauk, 1957, V	ol. 115, Kr 4, pp. 822-823 (USSR).	
ABSTRACT:	two uppermost leaves for the sumilates during the time of the with the role of the leaves of the course of the individual performance are rare. The present work aimstion of the lowing off of the storeys in the course of the graves chosen for this experiment chosen. For 20 minutes the leave to a CO_2 - atmosphere marked with	stated the great importance of the applying of the corn ears with assi- ripening of the grains. The works deal different storeys in the harvest in eriods of development, however, they ed at the following. study of the direc- assimilate from the leaves of different cowing season. Spring wheat Lutescens- ent. The method of the marked atoms was res of individual storeys were exposed the C line under the condition that on	
	the occasion of the photosynthe	esis C ¹¹¹ is absorbed by the leaf as	
Card 1/4	well as C ¹² and distributed in from the distribution of radios	the plant, it is possible to judge activity above the direction of the	

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flowing out. After 24_{14} hours from the time of the "feeding" of the plants with marked $C^{-10}O_2$ autophotograms were taken after a fixation

in a hot press. The thus obtained series demonstrates that leaves of all storeys take actively part in the supplying of young growing plant organs mainly of the leaves in the early stages of the development. The marked carbon absorbed by the leaves of the second and third storey rises to those in the fourth storey, on the occasion of the "feeding", of leaves of the fourth and the fifth storey the assimilates remain at the same place. The blackened photo plate at the place of the ears indicates that in this period leaves of all storeys take actively part in the supplying of the ears with organics. The secondary shoots are partly supplied by the leaves of the main shoots and are selfsufficient after having reached their complete shape. The negative role of the spring wheat can be explained by the fact that the lateral shoot are only little fertile. The fourth leaf shows special activity. It supplied mainly the young leaves of the fifth and sixth storey as well as the ears. The fifth leaf shows the greatest activity by supplying the growing organs with organics even after completed growth. The differences between the work of the leaves of the individual storeys are still more distinct in the stage

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of the 6 leaves. The assimilates of the second leaf do not pener trate into the overground organs but only to a little extent into the roots. Neither the third nor the fourth leaf supply the overs ground parts as soon as all leaves are fully developed. On the occasion of "feeding" of the upper leaves with $C_{j,0}^{j}$, $C_{j,0}^{j}$ concent

trates in the ears, in the straw knots and the root system. At the beginning of the growing of the ears the assimilates flow more actively to the reproductive organs also from the lower leaves. The main suppliers for the ear and the stalk are, however, the upper leaves. During the period of the growing of the ears the flowing off of the assimilates is mainly directed into the reproductive organs. The lowest leaves then, although still green, totally cease to supply assimilates. The higher the leaf, the more important is its rôle in the ripening of the grains. There is no doubt that a direct connection exists between the activity of the processes occurring in the leaf and the faculty of supplying the reproductive organs with assimilates of the leaf. There are two figures, and 8 Slavic references.

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On the Rôle of of Fructificat	Leaves of Different Storeys in the Formation 20-4-54/60 ion Organs in Spring Wheat.
ASSOCIATION:	Moscow State University imeni M. V. Lemonoscv (Moskovskiy gosudarstvennyy universitet im. M. V. Lomonoscva).
PRESENTED:	By A. L. Kursanov, Academician, April 29, 1957
SUBMITTED:	October 26, 1956.
AVAILABLE:	Library of Congress.
Card 4/4	

LYUBARSKIY, L., doktor sel'skokhoz.nauk; KRAVTSOVA, B., kand.biolog.nauk

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1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego porerabotki.

(Whoat--Grading)

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KRAVTSOVA, B.Ye., kand.biolog.nauk; AVERKIYEVA, N.N., nauchnyy sotrudnik

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LYUBARSKIY, L.N.; KRAVTSOVA, B.Ye.

Technological significance of wheat subtypes in standards. Standartizatsila 27 no.1:35-39 Ja '63. (MIRA 17:4)



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> [Recommendations for the production of strong and durum wheat] Rekomendatsii po proizvedstvu zerna sil'nykh i tverdykh pshenits. Koskva, izi-vo "Kolos," 1964. 63 p. (A.BA 17:6)

 Russia (1923- U.S.S.R.) Ministerstvo sel'skogo khozysystva. Upravleniye nauki, propagandy i vnedreniya peredovogo opyta.
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L 12721-63 EPR/EPF(c)/EWP(j)/EWT(m)/BDS ASD Pr-4/Ps-4/Pc-4 RM/WW ACCESSION NR: AP3002295 s/0062/63/000/006/1114/1117 72 AUTHOR: Yegorov, Yu. P .; Leytes, L. A.; Kravtsova, I. D.; Meronov, V. F. TITLE: Effect of the nature of silyl and germyl groups on the Raman spectra of allyl silanes and allyl germanes ŋ SOURCE: AN SSSR. Izv. Otdeleniye khimicheskikh nauk, no. 6, 1963, 1114-1117 TOPIC TAGS: Raman spectra, allyl silanes, allyl germanes, F, Cl, Br ABSTRACT: The effect of the nature of the halogen in compounds of the formula X sub 3 M - CH sub 2 - CH = CH sub 2 where M is Si or Ge and X is F, [Cl or Br, on the frequency and intensity of the Raman lines was investigated. Frequency increased with the series CH sub 3 is less than Br is less than Cl is less than F, and intensity increased in the series F is less than Cl is less than CH sub 3 is less than Br. The "barrier effect" concept of Si and Ge atoms in the investigated compounds is discussed. Orig. art. has: 2 figures and 2 tables. ASSOCIATION: Institut organicheskoy khimii im N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR) Card 1/2

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