"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-STEPANYAN, A.M.; BYSYMONT, L.O., redaktor; ALEKSANDROV, V.I. tekhnicheskiy redaktor.

[Stabilizers of film speed] Stabilizatory skorosti kinofil'ma. Moskva, Gos. izd-vo "Iskusstvo," 1955. 106 p. (MLRA 8:8)
(Motion-picture projectors)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-STEPANYAN, A.M.

Illumination of the image plane with relation to the rectangular exit pupil of the optical system. Trudy LIKI no.3:102-109 '55. (MLRA 9:8)

1. Kafedra kinoapparatury. (Optics, Geometrical)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-STEPANYAN, Aram Matveyevich; PROVORNOV, Sergey Mikhaylovich; EYSYMONT, L.O., red.; MALEK, Z.N., tekhn.red.

[Parts and mechanisms of motion-picture equipment] Detali i mekhanizmy konoapparatury. Moskva, Gos.izd-vo "Iskusstvo," 1959. 431 p. (MIRA 13:2)
(Motion-picture projection--Equipment and supplies)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-STEPANYAN, A.M.

Design of the printing sprocket. Trudy LIKI no. 5:101-109 '59. (MIRA 13:12)

1. Kafedra kinoapparatury Leningradskogo instituta kinoinzhenerov.
(Motion-picture photography--Equipment and supplies)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-STEPANYAN, A.M.

"Lenkinap" magnetoelectric mirror modulator. Tekh.kino i telev. 4 no.9:31-38 S '60. (MIRA 13:9)
(Sound--Recording and reproducing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

BARBANEL', S.R.; MELIK-STEPANYAN, A.M.; SOLOMONIK, A.V.

Investigating the wow coefficient of the speed stabilizers of sound reproducing systems. Trudy LIKI no.8:3-12 '62. (MIRA 16:6)

1. Kafedra kinofotoapparatury Leningradskogo instituta kinoinzhenerov.
(Sound—Recording and reproducing)
(Motion-picture projectors—Testing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-STEPANYAN, A.M.

Balancing the flywheel-stabilizers of the speed of film motion.
Trudy LIKI no.11:25-27 '64. (MIRA 18:10)

1. Kafedra kinofotoapparatury Leningradskogo instituta kinoinzhenerov.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

GOLDOVSKIY, Yevsey Mikhaylovich, prof.; PROVORNOV, S.M., prof., retsenzent; BLYUMBERG, I.B., retsenzent; MELIK-STEPANYAN, A.M., retsenzent; TSIRULINA, Z.V., dots., retsenzent; TSIVKIN, M.V., retsenzent; EYSYMONT, L.O., red.

[Fundamentals of motion-picture techniques] Osnovy kinotekhniki. Moskva, Iskusstvo, 1965. 634 p.
(MIRA 18:7)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-TANGIYEV, Z.I.

NAZIROV, R.K.; MELIK-TANGIYEV, Z.I.; LEYTMAN, B.M.

Achievements of petroleum construction workers on the 40th Anniversary of the Great October Revolution. Azerb.neft.khoz. 36 no.11:39-40 N '57. (MIRA 11:2)
(Azerbaijan--Construction industry)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

VEZIROV, S.A.; MELIK-TANGIYEV, Z.I.

Pile driving by the turbodrill method. Azerb.neft.khoz. 37 no.10:37-40 O '58. (MIRA 12:2)
(Apsheron Archipelago--Oil well drilling, Submarine)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-VARTANYAN, K.A.

Chebyshev's attenuation conditions in the suppression band of electric filters. Izv.AN Arm.SSR. Ser.tekh.nauk. 10 no.6:43-52 '57. (MIRA 11:2)

1.Laboratoriya elektrotekhniki AN ArmSSR.
(Electric filters)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-VARDANYAN, K.A.

Synthesis of linear passive two-terminal networks with a given function of resistance having two zeros and two poles. Izv. AN Arm.SSR,Ser. tekh. nauk 11 no. 3:9-16 '58. (MIRA 11:8)

1. Laboratoriya elektrotekhniki AN ArmSSR.
(Electric networks)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-VARTANYAN, K. A., Cand Tech Sci -- (diss) "Application of Chebyshev's polynomials of a complex argument toward the calculation of electrical circuits." Moscow, 1960. 27 pp; with graphs; (Ministry of Higher Education USSR, Moscow Order of Lenin Power Inst); 150 copies; price not given; bibliography on pp 26-27 (17 entries); (KL, 50-60) 134)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

S/173/60/013/001/003/005
A104/A029

9.2550

AUTHOR: Melik-Vartanyan, K.A.

TITLE: Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Seriya tekhnicheskikh nauk, 1960, Vol. 13, No. 1, pp. 45-55

TEXT: The author refers to References 5 and 2 and states that the Chebyshev function is the optimum solution of the function of the standardized characteristic rating of electric filters; in this event synthesis produces the smallest number of cells. The application of Chebyshev function $Th_n$ ($\Omega$) leads to the conclusion that a definite dependence exists between attenuation functions, phase coefficients of bridge and chain structures and functions $Th_n$. The characteristic transmission efficiency of symmetric chains and bridge filters is shown in Figures 1 and 2. Trigonometric and algebraic expressions of Chebyshev polynoms are given. All zeros of these polynoms are real and prime $T_n$ (x); they are distributed only on the basic section [-1,1] and increase indefinitely with the increase of n. All maxima are equal to + 1, all minima to -1. Outside the

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A104/A029

Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

basic section polynoms loose their vibrational character and increase or decrease monotonously as shown in Figure 3. Based on solutions obtained from 28 equations contained in the paper the following values were determined: frequency characteristics of attenuation and phase coefficient of chain circuits on the complex plain $\Omega$ ; attenuation and phase coefficient functions and Chebyshev polynoms of the complex argument $\Omega$ ; attenuation and phase coefficient functions of bridge circuits and Chebyshev polynoms of the complex argument $\Omega$. On the complex plain $\Omega$ the family of confocal ellipses corresponds to various permanent values of the natural attenuation b and the family of confocal hyperbolae to various permanent values of the phase measure a. Ellipses and hyperbolae form families of orthogonal functions (Fig. 4). The representation of four-terminals in the form of polynoms of complex variables is expedient as it permits their moduli to be represented on a complex plain in the form of a family of curves. Cassiniovals correspond particularly to moduli of second degree hyperbolic functions which represent characteristics of symmetric bridge structures and T- and $\pi$-shaped chain structures. The families of curves obtained can act as

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

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A104/A029

Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

nomograms for the solution of problems on filters with the evaluation of losses.

ASSOCIATION: Institut elektrotekhniki AN Armyanskoy SSR (Institute of Electrical Engineering of the AS of the Armyanskaya SSR)

SUBMITTED: October 16, 1959

Card 3/7

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A104/A029

Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

Figure 2:

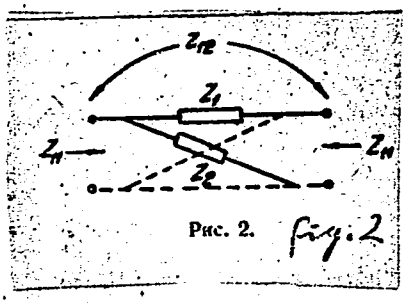


Рис. 2. Fig. 2

Figure 1:

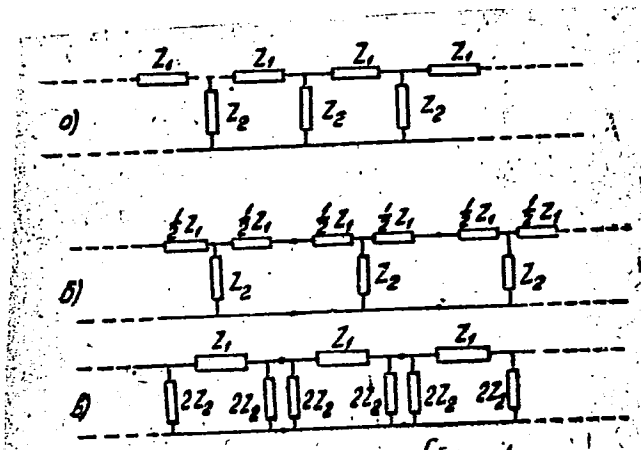


Fig. 1

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A104/A029

Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

Figure 3:

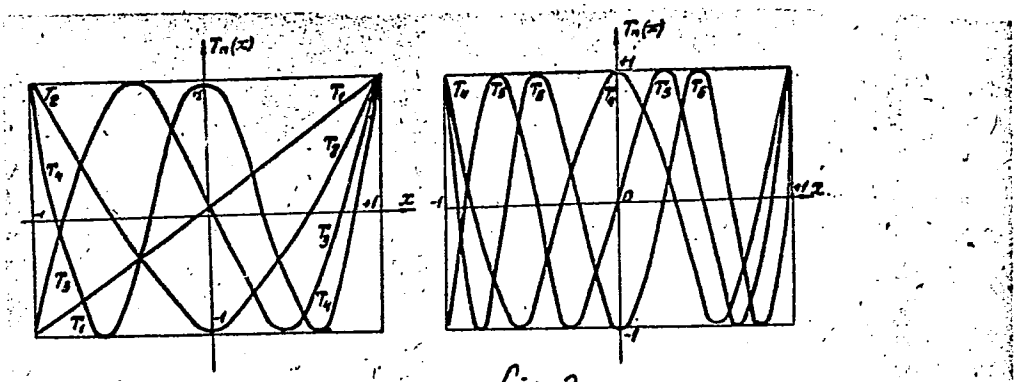

Рис. 3. Fig. 3

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A104/A029

Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

Figure 4:

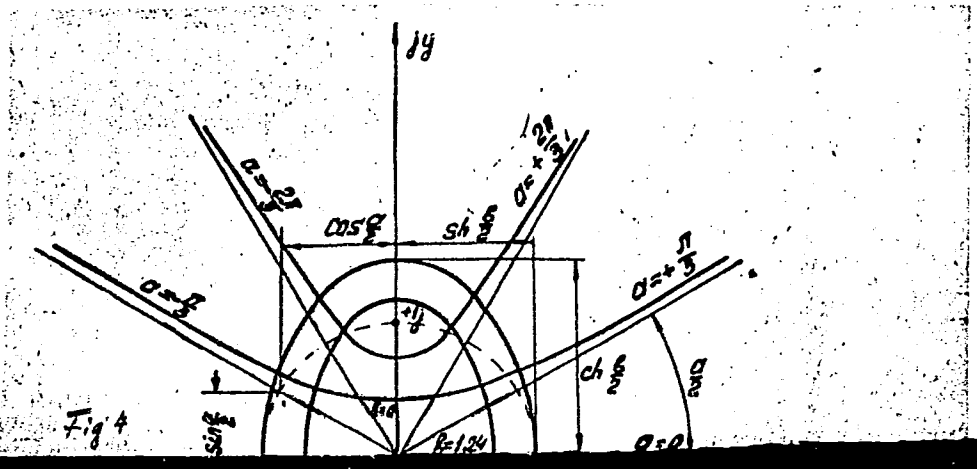


Fig 4

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Attenuation and Phase Coefficient of Electric Filters and Chebyshev Polynoms in the Complex Region

Figure 4:

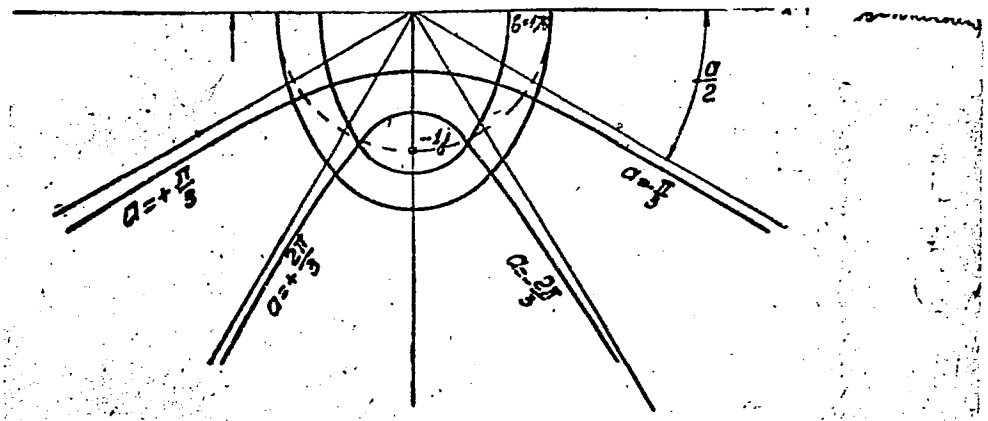


Рис. 4. Fig. 4

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25566

9.3230

S/173/60/013/004/001/003
D203/D301

AUTHOR: Melik-Vartanyan, K.A.

TITLE: Some problems concerning the use of Chebyshev polynomials from a complex argument in the design of electric filters

PERIODICAL: Akademiya nauk Armyanskoy SSR. Seriya tekhnicheskikh nauk. Izvestiya, v. 13, no. 4, 1960, 3 - 15

TEXT: The author introduces a new way in which Chebyshev functions can be applied to the design of filters. By considering Chebyshev polynomials in the complex plane, he derives design nomograms which in addition to giving filter parameters, can also be useful for assessing the effect of losses on the frequency characteristics. The construction of the nomogram is based on the geometric interpretation of the moduli of Chebyshev hyperbolic functions, $/Th_n(\Omega)/$, in the complex plane $\Omega$. The functions are given by Eqs. 7a, b, c, d which are derived

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Some problems concerning the use... D203/D301

by establishing an identity between Chebyshev polynomials in the explicit form and a set of suitable hyperbolic functions.... (Eqs. 7a, b, c, d).

$$|Th_1(\Omega)| = \sqrt{sh^2\frac{b}{2} + \sin^2\frac{a}{2}} = |\Omega|$$

$$|Th_2(\Omega)| = \sqrt{sh^2 b + \cos^2 a} = 2\,|\Omega - j\cos\frac{\pi}{4}|\,|\Omega + j\cos\frac{\pi}{4}|$$

$$|Th_3(\Omega)| = \sqrt{sh^2\frac{3}{2}b + \sin^2\frac{3}{2}a} = 2^2\,|\Omega|\,|\Omega - j\cos\frac{\pi}{6}|\,|\Omega + j\cos\frac{\pi}{6}|$$

$$|Th_4(\Omega)| = \sqrt{sh^2 2b + \cos^2 2a} = 2^3\,|\Omega - j\cos\frac{\pi}{8}|\,|\Omega + j\cos\frac{\pi}{8}|\,|\Omega - j\cos\frac{3\pi}{8}|\,|\Omega + j\cos\frac{3\pi}{8}|.$$

(7a,b,c,d)

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The loci of $/Th_n(\Omega)/ = M =$ const. for different values of M are as follows. For $/Th_1(\Omega)/ = M =$ const., a family of concentric circles with its center at the origin.

$$x^2 + y^2 = M^2 \tag{8a}$$

For $Th_2(\Omega) = M =$ const. Cassini ovals are given by

$$\left[x^2 + (y - \cos\frac{\pi}{4})^2\right]\left[x^2 + (y + \cos\frac{\pi}{4})^2\right] = \frac{M^2}{4}; \tag{9a}$$

For $/Th_3(\Omega)/ = M =$ const and higher order functions the nature of curves is the same as that for $/Th_2(\Omega)/$, i.e. the product of the distances from a point on the curve to the nulls of the polynomial is constant. The curves can be derived using



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the "pythagorian" relation.

$$M^2 = sh^2\, n\, \frac{b}{2} + \begin{cases} \sin^2 n\, \frac{a}{2} & n = 1,3\ldots \\ \cos^2 n\, \frac{a}{2} & n = 2,4\ldots \end{cases} \qquad (11)$$

To complete the nomogram a family of curves of constant phase a is added. These curves are confocal hyperbolae represented by Eq. !2 and their points of intersection with the locus of $/Th_n(\Omega)/$ give discreet values of attenuation b.

$$\frac{x^2}{\cos^2 \frac{a}{2}} - \frac{y^2}{\sin^2 \frac{a}{2}} = -1. \qquad (12)$$



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The moduli of Chebyshev hyperbolic functions $Th_2(\Omega)$ on complex plane $\Omega$ shows that the hyperbola of $a = 90^0$ is the axis of greatest attenuation. The lemniscate corresponding to M = 1 divides the family of curves into two groups, inside the lemniscate lie curves of small, and outside it, of large attenuation. The Y-axis represents the region of ideal filters with the transmission range in the interval $0 \leq y \leq 1$, attenuation range in the interval $1 \leq y \leq \infty$, and the cut-off point at y = 1. The region of practical band-pass filters with losses lies to the right of the Y-axis; the l.f. section being above the h.f. sections below the X-axis. The normalized frequency for the ladder-type l.f. filter of Fig. 5d is given by Eq. 18.

$$\Omega = \sqrt{\frac{Z_1}{4Z_2}} = \frac{\sqrt{2}}{4}\sqrt{\frac{R_1}{R_2} - \omega^2 LC + \sqrt{\left(\frac{R_1}{R_2}\right)^2 + (\omega^2 LC)^2 + \omega^2 \frac{R_1}{R_2} LC\left(k + \frac{1}{k}\right)}} + j\frac{\sqrt{2}}{4}\sqrt{-\frac{R_1}{R_2} + \omega^2 LC + \sqrt{\left(\frac{R_1}{R_2}\right)^2 + (\omega^2 LC)^2 + \omega^2 \frac{R_1}{R_2} LC\left(k + \frac{1}{k}\right)}} \quad (18)$$



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By substituting in this equation the Heaviside condition $k = \frac{L/R_2}{R_1 C} = 1$, it is seen that only the imaginary component of $\Omega$ is frequency dependent. This means that in the l.f. region the axis of the normalized frequencies $\Omega$ is parallel to the y-axis. A further analysis of Eq. 18 shows that the Heaviside condition is indispensable for obtaining optimum parameters to produce the lowest attenuation in the transmission range. This is also valid for the h.f. filter of Fig. 5c, for which the normalized frequencies axis is a semi-circle with radius $\rho = \frac{1}{4}\sqrt{\frac{R_1}{R_2}}$. The point of intersection of the normalized frequencies axis with the lemniscate (M = 1) is the cut-off



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point. To determine filter parameters from a nomogram, given the attenuation $b_c$ and cut-off frequency $w_0$, the point $b_c$ is located on the lemniscate and the values of $y_c$ and $x_c$ are read off. Then for a l.f. filter...(Eq. 24)...and for an h.f. filter .... (Eq. 25)....

$$x_c = \frac{1}{2}\sqrt{\frac{R_1}{R_2}}$$

$$y_c = \frac{1}{2}\,\omega_c\sqrt{LC} \qquad (24)$$

$$\frac{L}{R_2} = R_1 C$$



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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8



$$x_c = \frac{1}{2} \cdot \frac{\sqrt{\frac{R_2}{R_1}}}{\frac{R_2}{R_1} + m^2 LC} \qquad (25)$$

$$y_c = \frac{\omega_c}{2} \cdot \frac{\sqrt{LC}}{\frac{R_2}{R_1} + \omega_c^2 LC} \quad \text{and} \quad \frac{L}{R_1} = R_2 C$$

To solve the system of equations (24) or (25) for the four unknown C, L, $R_1$, $R_2$, either $R_1$ or $R_2$ can be expressed in terms of the capacitance of the capacitor chosen for a particular design. When the load impendance is given, the necessary fourth equation is derived from the condition of load matching. In conclusion, the author considers that the main advantage of the method is the ease, with which losses in separate filter sections can be determined. The disadvantage is that it is restricted only to filters with identical elements, whereas modern complex filters consist invariably of combinations of



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Some problems concerning the use... D203/D301

k- and m- sections. There are 6 figures and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. Ther reference to the English-language publication reads as follows: E. Guillemin, Communication networks, vo. 11, 1947.

ASSOCIATION: Institut elektrotekhniki AN Armyanskoy SSR (Insitute of Electrical Power Engineering, AS Armenian SSR)

SUBMITTED: May 10, 1960

Card 9/10

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

PLYUSHCH, B.M.; MELIK-YEGANOV, N.B., KULIYEV, Sh.A.

Investigating the recuperative-dynamic braking of the automated asynchronous drive of a drilling rig. Izv. vys. zav.; neft' i gaz 7 no.[illegible] 85-90 '64. (MIRA 17:9)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-YEGANOV, N.B.

Calculating the characteristics of asynchronous motors with chokes in a rotor chain during automatic braking of a draw works. Izv. vys. ucheb. zav.; neft' i gaz 4 no.8:133-137 '61. (MIRA 14:12)

1. Azerbaydshanskiy institut nefti i khimii imeni M.Azizbekova. (Winches)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-YEGANOV, N.B.

Using a draw works model for studying the regenerative dynamics of asynchroncus motor brakes in order to automate the process of drill pipe lowering. Izv. vysh. uchab. zav.; neft' i gaz 6 no.3:103-108 '63. (MIRA 16:7)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.
(Hoisting machinery—Brakes)
(Automatic control)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

15-57-1-693

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1, p 110 (USSR)

AUTHORS: Melik-Yeganova, T. B., Aliyev, A. G.

TITLE: High-Resistance Concrete From Coquina-Limestone Rubble on the Apsheron Peninsula (Vysokoprochnyy beton na shchebne iz izvestnyaka rakushechnika Apsheronskogo poluostrova)

PERIODICAL: Sb. tr. Azerb. n.-i. stroit. materialov i sooruzheniy, 1955, Nr 5, pp 8-17.

ABSTRACT: Coquina-limestones on the Apsheron Peninsula, having a strength in the dry state of 70 to 130 kg/cm$^2$, when used as coarse aggregate, may produce concrete with a strength on the order of 200-250 kg/cm$^2$. To do this, compaction of the concrete with a vibrator is a necessary procedure, inasmuch as it achieves the greatest effect and the greatest economy of cement. The fine limestone material that is given off during the mechanical crushing of pieces of building stone and

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15-57-1-693

High-Resistance Concrete From Coquina-Limestone Rubble (Cont.)

during preparation of the rubble, in their properties and quality, may completely replace the ordinary normal sands as the fine constituents of concrete. In manufacturing concrete with high strength, the use of the fines leads to a somewhat lower expenditure of cement.

V. P. Ye.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-YEGANOVA, T. B.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5335

Author: Melik-Yeganova, T. B.; Aliyev, A. G.

Institution: Azerbaydzhan Scientific Research Institute of Building Materials and Constructions

Title: High-Strength Concrete with Crushed Shell Rock Limestone from the Apsheronskiy Peninsula

Original Publication: Sb. tr. Azerb. n.-i. in-ta stroit. materialov i sooruzheniy, 1956, No 5, 8-17

Abstract: Shell rock limestones of the Apsheronskiy Peninsula, having a compression strength of 70-130 kg/cm$^2$, in dry state, can be used as fine and coarse agglomerate for concrete of grades 200 and 250 with an expenditure of Portland cement of grade 250, of 270-365 kg/m$^3$.

Card 1/1

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15-57-1-720

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1, p 113 (USSR)

AUTHOR: Melik-Yeganova, T. B.

TITLE: Caustic Dolomite as Local Raw Material (Kausticheskiy dolomit na baze mestnogo syr'ya)

PERIODICAL: Sb. tr. Azerb. in-t stroit. materialov i sooruzheniy, 1956, Nr 5, pp 113-122.

ABSTRACT: The dolomites of the Negramskoye mestorozhdeniye (deposit) in the Nakhichevanskaya ASSR are fully suitable as raw material for the production of caustic dolomite and the manufacture of structural materials made from the caustic dolomite. The optimum temperature for burning the dolomite to obtain caustic dolomite is 750° to 770°. The dissociation of the magnesium carbonate in these dolomites occurs at 740° to 755°; the calcium carbonate dissociates at 875° to 890°. The powdered caustic dolomite may be kept in a dry place for 10 to 12 months without changing its basic properties.

V. P. Ye.

Card 1/1

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIK-YEGANOVA, T.B.

Designing new quarrying machinery. Stroi.mat. 6 no.1:31-32 Ja '60. (MIRA 13:5)

1. Direktor Azerbaydzhanskogo nauchno-issledovatel'skogo instituta stroymaterialov i sooruzheniy.
(Azerbaijan--Quarries and quarrying--Equipment and supplies)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKA,

Q-6

Rumania/Farm Animals. Honey Bee

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35772

Author : Melika C.
Inst : Not Given
Title : The Introduction and Spread of Robinia pseudacacia in Rumania (Vvedeniye i rasprostraneniye belay akatsii v Rumynii)

Orig Pub : Apicultura, 1957, No 5, 8-10

Abstract : Robinia pseudacacia was brought to Europe from North America in 1601. Owing to its ability to acclimatize easily, it spread in northern Europe up to Leningrad. It was introduced into Rumania in themiddle of the 18th century, and at present it is widely spread; in southern Rumania, Robinia pseudacacia grows on the sand dunes, forming a belt 200 km. long and 10 km. wide.

Card : 1/1

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKA-SHAKHNAZAROVA, G.

USSR

Determination of speed of filtration of ground waters by method of marked (radioactive) atoms. V. Breslavs, G. Melika-Sachnazarova, and I. Takkhars. *Latvijas PSR Zinātņu Akad. Vēstis* 1955, No. 9 (Whole No. 92), 99-105 (in Russian).—Lab. tests showed that $Co(NO_3)_2$ with $Co^{60}$, Na phosphate with $P^{32}$, and $Na_2SO_4$ with $S^{35}$, as well as several dyes, were all strongly adsorbed on silicates. The loss reached 80-90% in filtration of solns. through a 5-cm. thick bed. Thus these compds. were not suitable for tracing the movement of water in ground. Andrew Dravnieks

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, I.G.; LARIN, R.R.; BEZHANOV, F. Kh.; Prinimali uchastiye: KHUROSHVILI, G., inzh.; TSAGARELI, T., inzh.; ZAMTARADZE, E., inzh.; BOCHORISHVILI, G., tekhnik; MAYSURADZE, L., laborant; SHUBLADZE, G., laborant; PANKRATOVA, Ye., kamnerez.

Investigation of teschenite disintegration by the thermal method. Soob. AN Gruz. SSR 34 no.3:633-640 Je '64 (MIRA 18:1)

1. Institut gornogo dela imeni G.A. TSulukidze AN Gruzinskoy SSR. Submitted November 25, 1963.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

PROCESSES AND PROPERTIES INDEX

**Electrolyte for Chromium Plating.** G. M. Kuperman and L. D. Melikadze (*Trudy Tbilis. Khim. Inst.*, 1940, 2, 207–216; *Khim. Referat. Zhur.*, 1941, 4, (2), 78; *C. Abs.*, 1943, 37, 2331).—(In Russian.) The object of the experiments was to devise a method for obtaining chromium electrolyte from available raw materials. The following technical scheme was used: production of $Cr(OH)_3$ from fused $Na_2Cr_2O_7$ and the separation of $Cr(OH)_3$ from it by decomposition with $H_2SO_4$. The optimum concentration of $Na_2Cr_2O_7$ increases the $Na_2Cr_2O_7$ is 10%. Increasing the concentration of $Na_2Cr_2O_7$ + $2Ca(OH)_2$ amount of NaOH formed from the reaction: $Na_2Cr_2O_7 + 2Ca(OH)_2 + 2Ca(CrO)_4 + 2NaOH + H_2O$; this increases the solubility of $Ca(CrO)_4.2H_2O$. The process must be carried out at 90° C., at which temperature a higher yield of the fine-grained $CaCrO_4$ precipitate is obtained, and the $Ca(CrO)_4$ is less soluble than at lower temperatures. The excess CaO required for a complete precipitation is 15–20%. The precipitate formed contains $Ca(CrO)_4.2H_2O$ 81%, and CaO 19%. The $Ca(CrO)_4$ is filtered, washed, dried, and transformed into $CrO_3$ with $H_2SO_4$ (400 grm./litre) by mixing and heating. The gypsum is separated by settling or filtering, the solution containing 60–70 grm. of $CrO_3$/litre is evaporated, the excess $H_2SO_4$ neutralized with $Ca(CrO)_4$, and the gypsum formed is separated, to leave a solution containing $CrO_3$ 300, $H_2SO_4$ up to 2·5, and CaO up to 5 grm./litre. The solution is suitable for chromium plating. The relative amounts of the substances used per unit of $CrO_3$ are: $Na_2Cr_2O_7.2H_2O$ 2·127, $H_2SO_4$ (monohydrate) 1·858, and CaO 1·270. The adaptation of the method to plant conditions is described in detail.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

Rubber Abstracts

Compounding Ingredients

**Caustobiolites containing highly polymerised compounds.** L. D. MELIKADZE and T. A. ELIAVA (Colloid J., U.S.S.R., 1948, 10, 115-21; Brit. Abs., 1949, BII, 356).—Black lumps of a resin formation found in a Mirzansky oil well were examined with respect to their physico-chemical properties and analysed by selective extraction with solvents. They may be roughly divided into two different forms. The first was a rubber-like inhomogeneous material with occlusions of a second material which was black, shiny, and brittle. The first material may be subdivided into four components: oily matter; highly polymerised compounds, benzene extractable; resinous material; and other highly polymerised compounds. 42621

1949

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; BEKAURI, N.G.

Distillation of mineral oil by surface evaporation. Soob.AN Gruz.SSR 16 no.3:213-220 '55. (MIRA 9:7)

1.Akademiya nauk Gruzinskoy SSR, Institut khimii imeni P.G.Melikishvili. Predstavlene chlenom-korrespondentom Akademii G.V.TSitsishvili. (Mineral oils) (Distillation, Destructive)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.

4

1-H

4E4C

4494. HIGH MOLECULAR WEIGHT AROMATIC LUBE FRACTION IN NORII PETROLEUM. Melikadze, L.D. and Eliava, T.A. (Trud. Inst. Khim. Akad. Nauk GruzSSR (Proc. Inst. Chem. Acad. Sci. Georgian S.S.R.), 1956, vol. 12, 73-85). The fraction obtained by vacuum distillation from 160 to 270° at 0.5 to 1 mm of mercury was examined. Crystalline aromatic compounds were found, with intense luminescence and low thermal stability.

JMB

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L. D.

USSR/Chemical Technology. Chemical Products and Their Application--Treatment of natural gases and petroleum. Motor fuels. Lubricants. I-14

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9275

Author : Melikadze, L. D., Usharauli, E. A., and Chavchanidze, D. G.

Inst : Georgian Academy of Science

Title : On the Presence in Oil of High-Molecular Compounds Capable of Producing Crystalline Structures

Orig Pub: Soobshch. AN GruzSSR, 1956, Vol 17, No 4, 317-320 (in Russian)

Abstract: The influence of thermal and catalytic treatment as well as of selective solvents on the separation of high-molecular compounds from petroleum crudes. It has been established that the separation of luminescent crystalline components from the high-molecular aromatic fraction is genetically related to the constitution of the crude and that these

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

Melikadze, L.D.

3284. CRYSTALLINE NON-PARAFFIN HYDROCARBONS IN NORI PETROLEUM. 2

Melikadze, L.D, and Eliava, [illegible] (Moscow), [illegible]

[illegible] point of picrate, and [illegible] melting 93.66, 6.47, colourless, [illegible] respectively: 199-202°, 132-133°, violet; [illegible], yellow; [illegible], yellowish; 93.97, 6.02, yellow, 316-318°, forms no picrate, yellow. C.A.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MEJKADZE, L.D.

3

Crystalline nonparaffinic hydrocarbons in Norisk crude oil. L. D. Mejkadze [illegible] 4E4

C.A. 50, 17404d.

FM
MT

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; ELIAVA, T.A.

Chromatograpic analysis of high molecular weight petroleum fractions. Trudy Inst. khim. AN Gruz. SSR 13:145-164 '57. (MIRA 11:4)
(Chromatographic analysis) (Petroleum--Analysis)
(Macromolecular compounds)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; ELIAVA, T.A.

Crystalline nonparaffine hydrocarbons of Noriisk petroleum.
Zhur.prikl.khim. 29 no.7:1083-1086 Jl '57. (MIRA 10:10)

1.Institut khimii im. P.G. Melikishvili AN Gruzinskoy SSR.
(Crystallochemistry) (Hydrocarbons)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L. D.

"Crystalline Components of High Molecular Weight Petroleum Fractions"
p. 236

**Composition and Properties of the High Molecular Weight Fraction of Petroleum; Collection of Papers, Moscow, Izd-vo AN SSSR, 1958. 370pp. (Issue nefti) 2nd Collection of papers publ. by AN Conference, Jan 56, Moscow.**

This is a study of the crystalline subtances obtained from several types of Soviet crudes. Two main groups were separated: luminescent products which were determined to be hydrocarbons (hgih paraffin content and low resin content) and nonluminescent reddish-blue products (nitrogen containing compounds). Evidently, the high molecular weight compounds contain aromatic rings and other structures f low thermal stability, which fact can be regarded as confirmation of the low-temperature formation of petroleum. There are 2 tables and 19 references of which 14 are Soviet and 5 English.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.

SOV/81-59-15-51822

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 15, pp 421 - 422 (USSR)

AUTHOR: Melikadze, L.D

TITLE: On the Crystalline Components of High-Molecular Petroleum Fractions

PERIODICAL: V sb.: Sostav i svoystva vysokomolekul. chasti nefti. Moscow, AN SSSR, 1958, pp 235 - 242

ABSTRACT: Applying the methods of fractional vacuum distillation, selective dissolution (by aniline or phenol), chromatography (adsorbent - active Al$_2$O$_3$) and fractional crystallization, the author separated from a series of oils crystalline aromatic compounds which are characterized by luminescence and melting points, and for hydrocarbons which form picrates also by the melting points of the latter. It has been established that crystalline components are contained in all investigated oils and according to the character of these components the oils are divided into 3 groups: oils from which luminescent crystalline components of hydrocarbon nature (LC) have been separated, oils containing a non-luminescent red-pomegranate colored nitrogen-containing component (NLC) and oils having components of both forms. Oils containing LC are characterized by a high

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SOV/81-59-15-54822

On the Crystalline Components of High-Molecular Petroleum Fractions

content of paraffins and a low content of resinous substances (oils from the deposits Ozek-Suat, Izber-Bash, Kara-Bulak and Achi-Kulak). Oils containing principally NLC have a high content of resinous substances and little paraffins (oils of Supsa, Ker-Gez, Romashkino and Nataneb bitumen). Oils of the deposits Norio, Binagady and Mirzaani contain LC and NLC. Some of the separated crystalline products proved to be poorly stable thermally.

B. Englin.

Card 2/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; USHARAULI, E.A.; CHAVCHANIDZE, D.G.

Photochemical stability of the luminescence of high molecular weight petroleum fractions. Trudy Inst.khim. AN Gruz.SSR 14: 165-176 '58. (MIRA 13:4)
(Luminescence) (Petroleum products)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L. D.

ИЗУЧЕНИЕ ФЛУОРЕСЦИРУЮЩИХ СОЕДИНЕНИЙ НЕФТИ
С ЦЕЛЬЮ ИХ ИСПОЛЬЗОВАНИЯ
В ДЕФЕКТОСКОПИИ МЕТАЛЛОВ

Л. Д. Меликадзе

VIII Mendeleyev Congress for General and Applied Chemistry in
Section of Chemistry and Chemical Technology of Fuels,
publ. by Acad. Sci. USSR, Moscow 1959

abstracts of reports submitted to be presented at above national congress,
Moscow, 19 March 1959.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; ELIAVA, T.A.; USHARAULI, E.A.; CHAVCHANIDZE, D.G.

High molecular weight aromatic petroleum hydrocarbons. Trudy Inst. khim.AN Azerb.SSR 17:146-153 '59. (MIRA 13:4)

1. Insitut khimii AN GruzSSR.
(Petroleum--Analysis) (Hydrocarbons)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; ELIAVA, T.A.; BAGRATISHVILI, G.D.

Hydrogenation of high-molecular aromatic hydrocarbons of petroleum under labile conditions. Soob.AN Gruz.SSR 23 no.6:657-662 D '59. (MIRA 13:6)

1. Institut khimii im. P.G.Melikishvili AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom Akademii G.V.TSitsishvili.
(Hydrogenation) (Aromatic compounds)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

ARESHIDZE, Kh.I.; MELIKADZE, L.D., red.; AVALIANI, N.M., red. izd-va; TODUA, A.R., tekhn. red.

[Study of the chemical properties of Georgian petroleums and contact conversion of hydrocarbons in the presence of gumbrin] Issledovanie khimicheskoi prirody neftei Gruzii i kontaktnykh prevrashchenii uglevodorodov v prisutstvii gumbrina. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR, 1960. 232 p. (MIRA 14:5)
(Georgia--Petroleum) (Cracking process)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

S/081/62/000/012/047/063
B156/B144

AUTHORS: Usharauli, E. A., Melikadze, L. D.

TITLE: The oxidation stability of oil fractions of petroleum

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 12, 1962, 507, abstract 12M194 (Tr. In-ta khimii AN GruzSSR, v. 15, 1961, 169 - 188)

TEXT: Hydrocarbon fractions being separated from oil fractions of Noriyskaya petroleum by the use of chromatography on silica gel, their stability (St) as regards oxidation has been investigated by the AzNII method. It has been found that the fractions of methane-naphthene hydrocarbons have higher St than the corresponding fractions of aromatic hydrocarbons, and that if the fractions of aromatic hydrocarbons with the lower St are added to those of methane-naphthene hydrocarbons the St of the latter is raised. 46 references. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.

Fluorescence of organic compounds. Trudy Inst.khim.AN Gruz.SSR 16:31-50 '62. (MIRA 16:4)
(Organic compounds--Spectra) (Fluorescence)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; KIKODZE, G.G.

Determination of side chains in cyclic hydrocarbons. Soob. AN Gruz. SSR 28 no.2:153-157 F '62. (MIRA 15:3)

1. Akademiya nauk Gruzinskoy SSR, Institut khimii imeni P. G. Melikishvili, Tbilisi. Predstavleno chlenom-korrespondentom Akademii G.V.Tsitsishvili.

(Hydrocarbons--Analysis)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

L 55204-65 EWT(1) P1-4 IJP(c)

ACCESSION NR: AR5012171 UR/0081/65/000/005/B024/B024

SOURCE: Ref. zh. Khimiya, Abs. 5B166

19
B

AUTHOR: Melikadze, L. D.; Abashidze, T. G.

TITLE: Analysis of "Noriol"

CITED SOURCE: Tr. In-ta khimii, AN GruzSSR, v. 17, 1964, 135-144

TOPIC TAGS: luminescence, luminescence spectrum, chromatographic analysis

TRANSLATION: The structural-group composition and physicochemical properties (specific weight, molecular weight, refraction index, viscosity, solubility, etc.) of the luminescent liquid Noriol were studied. It is shown there is an average of four rings per molecule with more than half being aromatic. A colorless non-luminescing liquid, a yellowish liquid with a violet glow, a yellowish liquid with a whitish glow, a yellowish-green liquid with fluorescence of the same color, and solid crystalline substances were isolated by chromatographic separation. The fluorescence spectrum of the last liquid fraction extends from 380 to 540 mμ. Solu-

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

L 55204-65
ACCESSION NR: AR5012171

tions of crystalline substances have absorption bands in the 240-340 mμ range and fluorescence bands in the 350-450 mμ range. The fluorescence bands in the crystalline state are displaced 100 mμ in the direction of the long waves. The various fractions differed in their photochemical stability. Compounds with yellow-green fluorescence displayed rather weak photostability which is ascribed to the partial dehydrogenation of the benzene rings.

SUB CODE: GC, OP ENCL: 00

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKADZE, L.D.; VASHAKIDZE, E.Ya.; GURGENIDZE, Z.I.

Flare-up of fluorescent solutions of some condensed aromatic hydrocarbons under ultraviolet irradiation. Soob. AN GruzSSR 37 no.2:305-310 F '65. (MIRA 18:3)

1. Institut khimii im. P.G. Melikishvili AN GruzSSR. Submitted July 23, 1964.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

L 47316-65 EWD-2/EWT(d)/EWP(1) Pg-4/Pk-4/Pl-4/Pq-4 IJP(c) GG/BB/GS

ACCESSION NR: AT5007876 S/0000/64/000/000/0029/0043

AUTHOR: Chkeidze, M. V.; Abesadze, T. B.; Melikadze, N. L.; Shekriladze, V. I. 51 B+1

TITLE: Voltage-to-code converter 16

SOURCE: AN GruzSSR. Institute kibernetiki. Elementy kibernetischeskikh sistem (Elements of cybernetic systems). Tiflis, Izd-vo Metsniyereba, 1964, 29-43

TOPIC TAGS: code converter, fiber optics, optical computer component, analog to digital converter

ABSTRACT: This article discusses converters of low voltages into code. These converters use high precision electrical measuring devices with luminous dials which are replaced by special coding matrices, made of coherently organized optical fiber-glass. A more useful coding system is one employing a mirror coding reflector which controls a photoelectric pickup. The conversion of continuous values into discrete is a result of a combination of operations: quantization of continuous quantities in time, quantization of continuous quantities with respect to level, coding of the level, and if necessary scanning the parallel code in time. The converter makes use of a metering device which measures reflected light rays. This

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

L 47316-65

ACCESSION NR: AT5007876

device takes its reading from the screen of the dial. If each element is connected to some register, which is not connected with other elements, there will be a separate signal for each variation in the input voltage. The design of the converters can be significantly simplified by using "fiber optics" in the conversion part of the device. Systems using fiber optics produce high resolution and eliminate halation. They give additional design possibilities, which are impossible with ordinary optics. When the converter with focusing mirror is compared with the one using fiber optics, it is found that the former is preferable. It is suggested that optical converters will be used widely in the future. Orig. art. has: 5 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 07Jul64 ENCL: 00 SUB CODE: DP

NO REF SOV: 000 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

L 27074-66 EWT(d)/FSS-2 GS/JXT(CZ)

ACC NR: AT6012356 SOURCE CODE: UR/0000/66/000/000/0249/0252

AUTHOR: Abesadze, T. B.; Melikadze, N. L.; Chkheidze, M. V.; Shekriladze, V. I. 49

ORG: none

B+1

TITLE: High-current converter of low voltage levels into a code 4

SOURCE: Nauchno-tekhnicheskaya konferentsiya po sredstvam promyshlennoy telemekhaniki. Moscow, 1963. Promyshlennaya telemekhanika (Industrial telemechanics); materialy konferentsii. Moscow, Izd-vo Energiya, 1966, 249-252

TOPIC TAGS: coding, binary code, analog digital encoder, optic communication, fiber optics

ABSTRACT: In view of the sensitivity of low-voltage levels to extraneous noise and the concomitant need for the use of amplification in each individual channel, the authors have developed a converter in which the level is measured by a deflecting-beam instrument, and in which the beam deflection is converted into a digital signal by means of a light-sensitive instrument (Fig. 1). The accuracy of such a converter depends both on the accuracy of the meter employed and on the minimum distance which separates two neighboring light-sensitive elements. If several light-sensitive elements are installed at each scale division, and if these elements are suitably arranged in columns, it is possible to code the results of the conversion in accordance with a prescribed law. A standard meter with sensitivity of several millivolts per scale division can be used. If an electrodynamic meter is used, it is possible to obtain in discrete code the amplitude of sinusoidal oscillations at any instant of time,

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ACC NR: AT6012356

something which cannot be done with any other converter without the use of a rectifier. The code mask is placed on the surface of the focusing member of the instrument, and the scale can be printed photographically. Methods of eliminating the scale nonlinearity have been developed. The use of fiber optics can improve the resolution and the accuracy. Different types of optical fibers, with length of 30 cm, were tried. Types FEU-27 and FEU-31 photomultipliers were tested, and the latter turned out to be more sensitive. A scale of 100 divisions (10 binary digits) with measurement accuracy 0.1% calls for the use of an optical mask of 0.136 x 0.6 mm area, and a maximum width of the light beam of 136 μ. The actual width chosen was 80 μ. A signal of the order of 0.5 volts was obtained in all digits. [02]

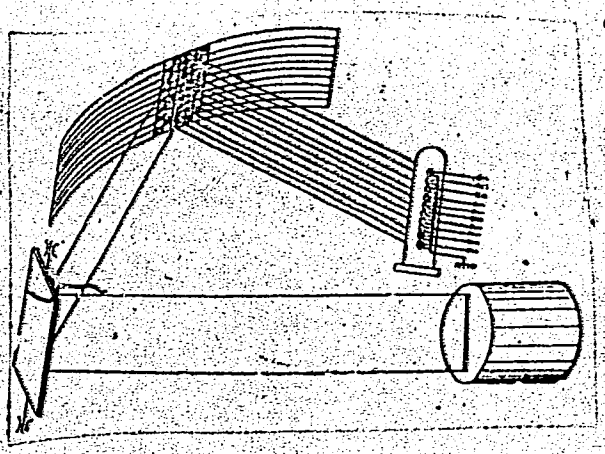

Fig. 1. Diagram of converter with focusing mirror.

Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 08Jan66/ ATD PRESS: 4258

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

AID P - 3820

Subject : USSR/Mining

Card 1/1 Pub. 78 - 8/25

Authors : Abdullayev, M. A., A. A. Velibekov, K. A. Karapetov and A. S. Melikbekov

Title : Experience in applying the hydraulic formation ruptures method ("breakthroughs") in oil recovery operations of Azerbaydzhan

Periodical : Neft. khoz., v. 33, #11, 44-49, N 1955

Abstract : The results of tests in "breakthroughs" secondary oil recovery operations in the Baku region are reported. Various cases are examined to evaluate factors (technical factors and those relating to the nature of particular strata) responsible for the difference in the results. Charts, tables.

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A S

AID P - 3964

Subject : USSR/Mining

Card 1/1 Pub. 78 - 9/27

Author : Melikbekov, A. S.

Title : Increase in the output of the oil wells of the Kara-Chukhursk-Zykhsk territory after the application of sea water for hydraulic pressure.

Periodical : Neft. khoz., v. 33, #12, 32-35, D 1955

Abstract : In the secondary method of oil recovery by water flooding on the Apsheron peninsula the amount of available alkaline underground reservoir water proved to be insufficient. Therefore sea water was used with satisfactory results. Tables, 2 references, 1954.

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.

ABDULLAYEV, Makhmud Ali ogly; VELIBEKOV, Abdul ogly; KARAPETOV, Karo Ambartsumovich; MEL'KBEKOV, Azhdar Sultanovich; ASADOV, I.M., kandidat tekhnicheskikh nauk, redaktor; SHTEYNGEL', A.S., redaktor izdatel'stva

[Hydraulic fracturing] Gidravlicheskii razryv plasta. Pod red. I.M.Asadova. Baku, Azerbaidzhanskoe gos. izd-vo neftianoi i nauchno-tekhn. lit-ry, 1956. 166 p. [Microfilm] (MIRA 10:3)
(Petroleum engineering) (Oil wells)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S., nauchnyy sotrudnik; KARAPETOV, K.A., nauchnyy sotrudnik

Hydraulic fracturing of oil sands. Neftianik 1 no.1:28-31 Ja '56. (MLRA 9:7)

1.Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.
(Petroleum engineering)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

KARAPETOV, K.A.; MELIKBEKOV, A.S.

Some problems in the application of hydraulic fracturing of oil sands in Azerbaijanian oil fields. Azerb.neft.khoz. 35 no.8:15-18 Ag '56. (MLRA 9:10)

(Azerbaijan--Petroleum engineering)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.; KARAPETOV, K.A.

Study of the Azerbaijan Scientific Research Institut for Petroleum Production on the development of effective technology in hydraulic fracturing of oil sands. Azerb.neft.khoz.35 no.12:17-20 D '56. (MLRA 10:3)

(Azerbaijan--Oil wells)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.

DENISOV, F.I.; KARAPETOV, K.A.; MELIKBEKOV, A.S.

Hydraulic fracturing of sands in the Siazan'field. Neft khoz. 35 no.2:31-34 F '57. (MLRA 10:3)
(Siazan'--Oil wells) (Petroleum engineering)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.

DENISOV, F.I.; KARAPETOV, K.A.; MELIKBEKOV, A.S.

Effectiveness of repeated hydraulic fracturing of strata. Azerb. neft. khoz. 36 no.9:20-22 S '57. (MIRA 11:2)
(Azerbaijan--Petroleum engineering)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

KARAPETOV, K.A.; MELIKBEKOV, A.S.

Analyzing the results of hydraulic fracturing of Azerbaijan petroleum strata. Azerb. neft. khoz. 37 no.4:24-26 Ap '58. (Azerbaijan--Oil wells--Hydraulic fracturing) (MIRA 11:8)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

KARAPETOV, K.A., nauchnyy sotr.; MELIKBEKOV, A.S., nauchnyy sotr.; CHERFAS, A.A.; Prinimali uchastiye: AMIROV, A.D.; BILANDARLY, A.A.; DURMISHYAN, A.G.; LAYTSEV, Yu.V.; KOCHARYANTS, Sh.M.; IBRAGIMOV, E.S.; MASUMYAN, V.Ya.; TAGIYEV, Z.B.; CHERNOMORBIKOV, M.Z.; KHALAFBEKOV, N.Kh.

[Instructions on the hydraulic fracturing of producing and injection wells] Instruktsiia po primeneniiu gidravlicheskogo razryva plasta v neftianykh i nagnetatel'nykh skvazhinakh. Baku, 1959. 58 p. (MIRA 15:4)

1. Azerbaidzhanskoye nauchno-tekhnicheskoye obshchestvo neftegazovoy promyshlennosti. 2. Chleny Azerbaydzhanskogo nauchno-tekhnicheskogo obshchestva neftyanoy promyshlennosti, Azerbaidzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti (for Karapetov, Melikbekov).
(Oil wells—Hydraulic fracturing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

KARAPETOV, Karo Ambartsumovich; MELIKBEKOV, Adzhar Sultanovich; PETROVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Hydraulic fracture of the stratum; experience of petroleum workers of Azerbaijan] Gidravlicheskii razryv plasta; opyt neftianikov Azerbaidzhana. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 69 p. (MIRA 12:7)
(Oil wells--Hydraulic fracture)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.

Hydraulic fracturing of strata in Georgian oil fields. Azerb.neft. khoz. 38 no.4:22-26 Ap '59. (MIRA 12:7)
(Georgia--Oil wells--Hydraulic fracturing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.; BILANDARLI, A.A.; ZAYTSEV, Yu.V.

Exploitation of injection wells in the Kyurovdag field. Azerb. neft. khoz. 38 no.8:26-29 Ag '59. (MIRA 13:2)
(Kyurovdag region (Azerbaijan)--Oil field flooding)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

DENISOV, F.I.; MELIKBEKOV, A.S.

Using nomographs for calculating the incremental oil production in hydraulic fracturing of strata . Azerb.neft.khoz. 38 no.11: 28-31 N '59. (MIRA 13:5)
(Oil wells--Hydraulic fracturing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

BARYSHEV, V.M.; KARAPETOV, K.A.; MELIKBEKOV, A.S.

Increasing the receptivity of injection wells by using surfactants.
Neft. khoz. 38 no.4:21-24 Ap '60. (MIRA 14:8)
(Oil fields--Production methods)
(Surface active agents)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

RASKHODOV, Grigoriy Fedorovich, prof.; MELIKHOV, Aleksey Stepanovich; DEVOCHKIN, N., red.

[Intercollective farm chick house] Mezhkolkhoznyi tsypliatnik. Volgograd, Volgogradskoe knizhnoe izd-vo, 1963. 21 p. (VTPA 18:2)

1. Volgogradskiy sel'skokhozyaystvennyy institut, Mikhaylovskiy ravon (for Raskhodov). 2. Direktor Mikhaylovskoy inkubatorno-ptitsevodcheskoy stantsii, Mikhaylovskiy rayon (for Melikhov).

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKBEKOV, A.S.; ORUDZHEV, M.D., red.; TOROSYAN, R., tekhn. red.

[Artificial methods in oil and gas well bottom areas] Metody vozdeistviia na prizaboinuiu zonu neftianykh i gazovykh skvazhin. Baku, Azerbaidzhanskoe gos. izd-vo, 1963. 120 p. (MIRA 17:1)

(Secondary recovery of oil)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

BAGIROV, M.K.; MELIKBEKOV, A.S.

Mechanostructural properties of the oil-sand mixture used in hydraulic fracturing. Neft. khoz. 43 no.9:47-50 S '65. (MIRA 18:10)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

S/598/60/000/004/013/020
D217/D302

AUTHORS: Reznichenko, V.A., Ogurtsov, S.V. Lopatin, G.S. and Melikbekova, S.A.

TITLE: Study of titanium production by the thermal magnesium method

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy. No. 4. Moscow, 1960. Metallurgiya titana, 122-131

TEXT: The purpose of this work was to study the nature of processes occurring during reduction of $TiCl_4$ both under laboratory and close to production conditions. First of all, the distribution of the products of reaction was studied. The work was carried out in a laboratory reactor in the following sequence: 150-160 g of etched Mg was charged into the reaction vessel, the pressure reduced to $1.10^{-3}$ mm Hg and purified argon passed to a residual pressure of 20-30 mm Hg. This procedure was repeated 3-4 times. Definite portions of $TiCl_4$ were transferred to the reactor at 750°C. After each transfer, the process was

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interrupted and the reactor cooled to room temperature in an argon atmosphere. The reacting mass was cut longitudinally into two portions. One portion was used for photography and from the other, samples of the products of reaction were taken from various points and analyzed for Mg, $Cl_2$, Ti, and in an aqueous extract, for Mg and $Cl_2$. To study the distribution of metallic Ti, particularly with small tetrachloride consumptions (2-15%), the method of taking color prints in chromotropic acid was used. The results obtained in laboratory investigations were verified under production conditions. It was found that the production of metallic Ti by the thermal Mg method is a complicated physico-chemical process. The distribution of the products of reaction during the process and the formation and growth of Ti sponge are the same under laboratory as under production conditions. The formation of the profile of the growing Ti sponge can be controlled by varying the rate of supply of $TiCl_4$. Soaking the products of reaction after the end of the process had no effect on the grain size of Ti. The conglomeration of Ti particles into sponge is due to their adhesion to Mg. There exists a relationship



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between specific pressure and the rate of $TiCl_4$ supply which may be viewed as the reaction characteristic of the reduction process. By applying this reaction characteristic, it is possible to select the optimum rates of $TiCl_4$ supply to ensure maximum efficiency and a high recovery of Mg. Application of cooling enables $TiCl_4$ to be supplied at high average rates at any given temperature. There are 4 figures.



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EWT(1)/EPA(s)-2/EWT(m)/EEC(k)-2/ETC/EWG(m)/EPA(w)-2/T/EWP(t)/EWP(b)/EWA(h)
ACCESSION NR: AP5024041 IJP(c) JD/WW/TT/AT UR/0057/65/035/009/1621/1633
537.523.5

AUTHOR: Moyzhes, B. Ya.; Bakshi, F. G.; Melikiya, M. G.

TITLE: On the theory of low-voltage arc in cesium. II

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1621-1633

TOPIC TAGS: thermionic energy conversion, arc mode, cesium

ABSTRACT: The assumption is made that the concentration and temperature of electrons are sufficiently large to make possible an energy exchange between fast and slow electrons. Under such conditions, when the starting energies are below the excitation threshold, the electron distribution function is close to the Maxwellian. The expression for ion generation and recombination is derived along with formulas for electron-electron collisions and step excitations of atoms due to electron impact. By approximating the unknown functions by polynomials, the solution of the system of differential equations reduces to a system of transcendental equations. The solution of which can be facilitated by neglecting the effect of generation. The formulas derived are used to calculate the volt-ampere characteristics of a low-voltage arc-mode energy converter. Orig. art. has: 41 formulas and 5 figures. [ZL]

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ACCESSION NR: AP5024041

ASSOCIATION: none

SUBMITTED: 14Nov64 ENCL: 00 SUB CODE: EM

NO REF SOV: 009 OTHER: 008 ATD PRESS: 4118

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MELIKHAN, Ye.K

57

PHASE I BOOK EXPLOITATION SOV/5460

Leningradskiy metallicheskiy zavod. Otdel tekhnicheskoy informatsii.

Nekotoryye voprosy tekhnologii proizvodstva turbin (Certain Problems in the Manufacture of Turbines) Moscow, Mashgiz, 1960. 398 p. (Series: Its: Trudy, vyp. 7) Errata slip inserted. 2,100 copies printed.

Sponsoring Agency: RSFSR. Sovet narodnogo khozyaystva Leningradskogo ekonomicheskogo administrativnogo rayona, Upravleniye tyazhelogo mashinostroyeniya, and Leningradskiy dvazhdy ordena Lenina metallicheskiy zavod. Otdel tekhnicheskoy informatsii.

Ed. (Title page): G. A. Drobilko; Editorial Board: Resp. Ed.: G. A. Drobilko, B. A. Glebov, A. M. Mayzel', and M. Kh. Mernik; Tech. Ed.: A. I. Kontorovich; Managing Ed. for Literature on Machine-Building Technology: Ye. P. Naumov, Engineer, Leningrad Department, Mashgiz.

PURPOSE: This collection of articles is intended for technical personnel in turbine plants, institutes, planning organizations, as well as for production innovators.

Card ~~1/12~~

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57

Certain Problems (Cont.) SOV/5460

COVERAGE: The experience of the LMZ (Leningradskiy metallicheskiy zavod - Leningrad Metalworking Plant) in the manufacture of modern large-capacity turbines is presented. Methods for the rationalization of basic manufacturing processes and for the mechanization and automation of manual operations are given. Descriptions of attachments and tools designed by LMZ for improving labor productivity and product quality are provided, and advanced inspection methods discussed. References accompany some articles. No personalities are mentioned. There are 26 references: 25 Soviet and 1 English.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

20

Certain Problems (Cont.) SOV/5460

for Assembling the Diaphragms of Steam and Gas Turbines for Tack Welding 329

Yakhnin, M. N. [Engineer]. A Pneumatic Clamping Device on Turret Lathes for Holding Bar-Stock and Piece Blanks 333

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Oborin, A. I. [Engineer]. A Device for Testing an Industrial Truck by Static Loading 350

Card ~~10/12~~

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKHAN, Ye.K., inzh.

Use of ball burnishing in the finishing of apertures of hydraulic turbine parts. Energomashinostroenie 8 no.4:31-32 Ap '62. (MIRA 15:4)

(Metals--Finishing)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKHAN, Ye.K., inzh.

Broaching of narrow slits in bushings using an electric spark method. Energomashinostroenie 10 no.1:33-34 Ja '64. (MIRA 17:4)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKHAR, BOGUSLAV. B.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Wood Chemistry Products. Hydrolysis Industry. H-24

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15838.

Author : Melikbar Boguslav
Inst :
Title : Production of Highly Purified Alcohol from Sulfite Liquor.

Orig Pub: Chekhosl. tyazh. prom-st', 1957, No 9, 43-47.

Abstract: A diagram is shown and a description is given of an apparatus for the production of the aforesaid alcohol. The resulting alcohol meets the specifications of Czechoslovak State Standard 660825 of May 1956.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKHAR, B.B.

A two-column, continuously operating rectification apparatus. B. B. Melikhar (Gradets- Kralove, Czechoslovakia). *Spirtovaya Prom.* 33, No. 2, 33-5(1957).—The equipment is described (drawing shown) and the operating conditions for the various parts thereof are presented. Analyses for EtOH, aldehyde, fusel oil, furfural, acidity, esters, and MeOH are given. Werner Jacobson

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKHOV, A., inzhener.

Quarry used by more than one collective farm. Sel'.stroi.11 no.5:4 My '56. (MIRA 9:9)

1.Orlovskoye oblastnoye upravleniye po stroitel'stvu v kolkhozakh.
(Orel Province--Quarries and quarrying)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

MELIKHOV, A. A. Cand Ped Sci -- (diss) "Study of methods of the tactical training of football players with the ~~application~~ use of technical means of communication." Mos, 1957. 13 pp 20 cm. (State Central Order of Lenin Inst of Physical Culture im Stalin), 110 copies (KL, 24-57, 121)



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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8

F

Country : USSR
Category : Microbiology. Microbes Pathogenic For Man and Animals. Aerobic Bacilli.
Abs. Jour : Ref Zhur-Biol., No 23, 1958, No 104869

Author : Melikhov, A.D.
Institut. : Moscow Veterinary Academy
Title : The Use of Blood Agar in the Differentiation of the Anthrax Bacillus From Certain Aerobic Soil Bacilli

Orig Pub. : Tr. Mosk. vet. akad., 1957, 19, No 2, part I, 86-88.

Abstract : No abstract.

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001033410010-8"