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S/023/60/009/01/001/011  
D031/D003

The Fundamental System of Integrals of the Equation of Small Steady Axisymmetrical Vibrations of an Elastic Conical Shell of Rotation

5, a special equation (2.3) is introduced with coefficients approximating the leading coefficients  $A_6, B_2, B_1, B_0$  of Eq.(1.1) at  $x = 0$ . Solutions of Eq. (2.3) are presented in form of a contour integral (2.5), the contours  $C_1, \dots, C_5, C_\Sigma$  (Fig. 1) defining the solutions  $u_1(z), \dots, u_5(z), u_\Sigma(z)$  respectively, and the contours  $D_{jk}$  (Fig. 2) the solutions  $\omega_{jk}(z)$ . Asymptotic expansions (2.8), (2.9) for the solutions  $u_1(z), \dots, u_5(z)$  are obtained by the method of steepest descent. At sufficiently large values of  $z/4^{\frac{1}{6}}$ ,  $\arg z$  on sector (2.15), the solution  $\omega_{j1}(z)$

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is asymptotic to the solution  $\omega_{j1,0}(z)$  given by (2.16) of the membrane equation (2.19). If  $\arg z$  is not in sector (2.15), asymptotic forms for  $\omega_{j1}(z)$  can be obtained with the aid of solutions  $u_k(z)$ , e.g. if  $4\pi/5 \leq \arg z \leq 6\pi/5$ , then  $\omega_{21}(z) = \omega_{31,0}(z) + u_5(z)$ . The solution  $u_5(z)$  is asymptotic to the regular solution of Eq. (2.19) at  $x = 0$ . Asymptotic integrals of Eq. (1.1)  $Y_1(x), \dots, Y_5(x)$ , according to solutions  $u_1(z), \dots, u_5(z)$  of Eq. (2.3) are obtained by well known technique of asymptotic integration and presented by formulae (3.1) - (3.4). Only four linear

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The Fundamental System of Integrals of the Equation of Small Steady Axisymmetrical Vibrations of an Elastic Conical Shell of Rotation

combinations of  $Y_1(x), \dots, Y_5(x)$  can be used. As the fifth asymptotic integral of Eq. (1.1) one can consider the regular solution of Eq. (1.6) at  $x = 0$ . The asymptotic form of the sixth solution of Eq. (1.1) is presented by (3.6), where  $Y_{6,1}(x)$  is the solution of (1.6) with the condition  $Y_{6,1}(x) \rightarrow \omega_{j1,0}(z)$  as  $x \rightarrow 0, z = z(x) \rightarrow 0$ . There are 2 figures and 10 references, of which 4 are Soviet and 6 English language.

ASSOCIATION: Institut energetiki Akademii nauk Estonskoy SSR (Institute of Power Engineering of the Academy of Sciences of the Estonskaya SSR) ✓

SUBMITTED: June 23, 1959

Card 5/5

ALUMYAE, N. [Alumae, N.]

Applicability of the method of splitting up the state of stress in solving axisymmetric problems of the dynamics of a closed cylindrical shell. Eesti tead akad tehn fuus no.3:171-181 '61.

1. Academy of Sciences of the Estonian S.S.R., Institute of Cybernetics.

SAVIN, G.N., otv.red.; ADADUROV, R.A., red.; ALUMYAE, N.A., red.;  
AMBARTSUMYAN, S.A., red.; AMIRO, I.Ya., red.; BGLOTIN, V.V., red.;  
VOL'MIR, A.S., red.; GOL'DENVEYZER, A.L., red.; GRIGOLYUK, E.I.,  
red.; KAN, S.N., red.; KARMISHIN, A.V., red.; KIL'CHEVSKIY, N.A.,  
red.; KISELEV, V.A., red.; KOVALENKO, A.D., red.; MUSHTARI, Kh.M.,  
red.; NOVOZHILOV, V.V., red.; UMANSKIY, A.A., red.; FILIPPOV, A.P.,  
red.; LISOVETS, A.M., tekhn. red.

[Proceedings of the Second All-Union Conference on the Theory of  
Plates and Shells] Trudy Vsesoiuznoi konferentsii po teorii plastin i  
obolochek. 2d, Lvov, 1961. Kiev, Izd-vo Akad.nauk USSR, 1962. 581 p.

(MIRA 15:12)

1. Vsesoyuznaya konferentsiya po teorii plastin i obolochek. 2,  
Lvov, 1961.

(Elastic plates and shells)

L 12396-63

EWT(m)/BDS AFFTC

S/023/63/000/001/001/004

51  
50

AUTHORS: Alumyae, N. and Poverus, L.

TITLE: Transient stresses in a semi-infinite elastic cylindrical shell under nonaxial loading

PERIODICAL: <sup>no</sup> Akademiya nauk Estonskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 1, 1963, 13-23

TEXT: Consideration is given to the determination of membrane stresses in a closed circular cylindrical shell caused by sinusoidally distributed membrane edge forces which are suddenly applied and maintained at a constant value. For the solution, the Timoshenko type linear shell theory and the Laplace transform procedure are used. The inverse integral is evaluated by a rational approximation of the transform to establish the early time behavior and by the saddle point method to find stresses over longer times. A series of equations are developed for the mathematical evaluation of the function  $\sigma(\alpha, \tau)$  -- the axial stress, dimensionless coordinate, Card 1/2

L 12396-63

S/023/63/000/001/001/004 /

Transient stresses in a semi...

and time. Analysis of data indicate that transient membrane stresses in a thin shell at early times may be obtained with the aid of the dynamic membrane theory of shells. For longer transient times the semimembrane dynamic theory of shells, including circumferential moments and shear forces, must be used. There are 6 tables, 1 figure, 14 references of which 11 are in the English language. The more important are: J. Miklowitz, Recent developments in elastic wave propagation, Appl. Mech. Rev., 13, 12, 1960; C. I. Shirtcliffe, D. G. Stephenson, A computer oriented adaption of Salzer's method for inverting Laplace transforms, J. Math. Phys. 40, 2, 1961.

ASSOCIATION: Institut kibernetiki Akademii nauk Estonskoy SSR (Institute of Cybernetics, Academy of Sciences of EstSSR)

SUBMITTED: August 14, 1962

Card 2/2

ALUMYAE, N.A. (Tallin)

"Propagation of stress waves in elastic shells".

report presented at the 2nd All-Union Congress on Theoretical and Applied  
Mechanics, Moscow, 29 January - 5 February 1964



ALUMYAE, T. E

USSR /Chemical Technology. Chemical Products  
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31805

Author : Alumyae T. E.

Title : Oxidation of Baltic Region Shale by Molecular  
Oxygen

Orig Pub: Sb. Goryuchiye slantsy. Khimiya i tekhnologiya,  
No 2, Tallin, Est. gos. izd-vo, 1956, 17-24

Abstract: Study of the changes in yield and nature of  
volatiles, elemental composition and also in  
the weight of kerogen of shale, on oxidation  
with air or oxygen. At temperatures of 50,  
86 and 105°, H<sub>2</sub>O, CO<sub>2</sub> and CO were found to be

Card 1/3

ALUMYAE, T.E.

USSR /Chemical Technology. Chemical Products  
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31805

present in the volatiles, and at a temperature above 100°-- formaldehyde and volatile acids. It is assumed that oxidation of shale kerogen takes place over the stage of hydroperoxides, which are formed as a result of a wedging-in of activated O between C and H atoms (Bakh-Engler theory). Temperature of isothermal oxidation affects not only the yield of volatiles but also the distribution of oxygen among the oxidation products. At 85° and with an 85-hour duration of the experiment, 2.5 units by weight of oxygen are added to the kerogen, 2 units are consumed to form H<sub>2</sub>O and one unit -- for the formation of

Ca: Card 2/3

ALUMYAE, T E.

PHENOLS; IARDON, E.

Phenols obtained from the semicoking of shale. In Russia. p. 173.

ESTSI 100DMS. (Eesti NSV Teaduste Akadeemia) Tartu, Estonia  
Vol. 8, no. 3, 1959.

Monthly List of East European Accessions (BEAI), IC, No. *Vol. 8 12 Dec.* ~~4~~ *July*, 1959.  
Uncl.

ALUMYAB, T. [Alumae, T.], kandidat tekhnicheskikh nauk; LAGHDA, E.

Composition of phenols under the conditions of processing shale  
with solid heat carrier. In Russian. Vestnik akad. tekh. nauk.  
8 no.4:234-242 '59. (NNAI 9:5)

1. Institut khimii Akademii nauk Moskovskoy SSR.  
(Shale) (Phenols)

FIRICA, Th., prof.; MUNTEANU, V., dr.; TUDOSE, N., dr.; ANDRONESCU, C., dr.;  
ALJUNEANU, Ileana, dr.

Emergency surgery in digestive hemorrhages caused by rupture of  
esophageal or gastric varices. Med. intern. 13 no.11:1541-1548 N '61.

(HEMORRHAGE, GASTROINTESTINAL surgery)  
(ESOPHAGEAL VARICES complications)

PROHASKA, Boris; LOVRECEK, Dubravka; JEFTIC, Ljubomir; ALUNIC, Emil

Studies on urea aducts. 1. Deparaphination of petroleum products by means of urea. Nafta Jug 12 no.6:151-157 Je '61.

1. Tehnoloski fakultet — Zagreb.

(Urea)

ALUOJA, R.

Veterinary hygiene in cattle barns. pg. 79.

SOTSILKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTERIUM.  
Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 11  
November 1959.

Uncl.

ALUOYA, R. E.

Cand Vet Sci - (diss) "Study of the micro-climate of poultry houses in the Estonian SSR." Tartu, 1961. 28 pp; (Estonian Agricultural Academy); 300 copies; free; list of author's works at end of text (10 entries); (KL, 7-61 sup, 254)



KRAVTSOV, Aleksandr Feodos'yevich; ALEKSEYEV, Boris Grigor'yevich;  
Prinimali uchastiye: ALUYEV, A.Ye., assistent; YAKOVLEV, K.S.,  
laborant. RAYTBURD, L., red.; GORKAVENKO, L., tekhn.red.

[Control and automatization of metallurgical processes;  
laboratory work] Kontrol' i avtomatizatsiia metallurgicheskikh  
protseessov; laboratornyi praktikum. Kiev, Gos.izd-vo tekhn.  
lit-ry USSR. Pt.1. [Control and measuring apparatus] Kontrol'no-  
izmeritel'nye pribory. 1959. 201 p. (MIRA 13:4)  
(Metallurgical plants--Equipment and supplies)  
(Automatic control)

ПРОЦЕХРИСТОВ, Д.; АРМЕНКОВ, А.; АЛВАДЗХИЕВ, М.

On non-traumatic surgical methods in the treatment of inguinal  
hernia. Folia med. (Plovdiv) 7 no.3:161-165 '65.

1. Vysshiy meditsinskiy institut imeni Iv.P. Pavlova, g. Plovdiv,  
Bolgariya, kafedra gospital'noy khirurgii na baze k l-vcy gorod-  
skoy bol'nitse (rukoveditel' - prof. L.Khaydudov).

PLV 11-15-57

3(3) **PHASE I BOOK EXPLOITATION** SOV/3223

Abdelsiya nauk SSSR. Kompleksnaya antarkticheskaya ekspeditsiya v Kriyuzh Antarktiki (Climate of the Antarctic). Moscow, Gostizdat, 1970. 265 p. (Series: "Iz. Tzud", Meteorologiya i Klimatologiya) Kriyuzh alip insertov. 4,000 copies printed.

Ed.: S. M. Kuznetsov; Tech. Ed.: S. M. Koshelov; Editorial Board: V. P. Burchanov, E. L. Dzerzhovskiy, Kh. F. Pogozyan, and G. M. Tauber.

**PURPOSE:** This book is intended for meteorologists and climatologists. It will be of interest to all earth scientists concerned with the Antarctic region.

**COVERAGE:** This book contains 18 articles on the weather and climate of Antarctica. Articles represent the results of the processing of data obtained by the Soviets during their expeditions to the Antarctic, 1955-1958. Individual authors have attempted to clarify and unify previously divergent views on Antarctic meteorological processes (zonal circulation, temperature distributions, cyclonic and anticyclonic movement, etc.). No personalities are mentioned. References accompany individual articles.

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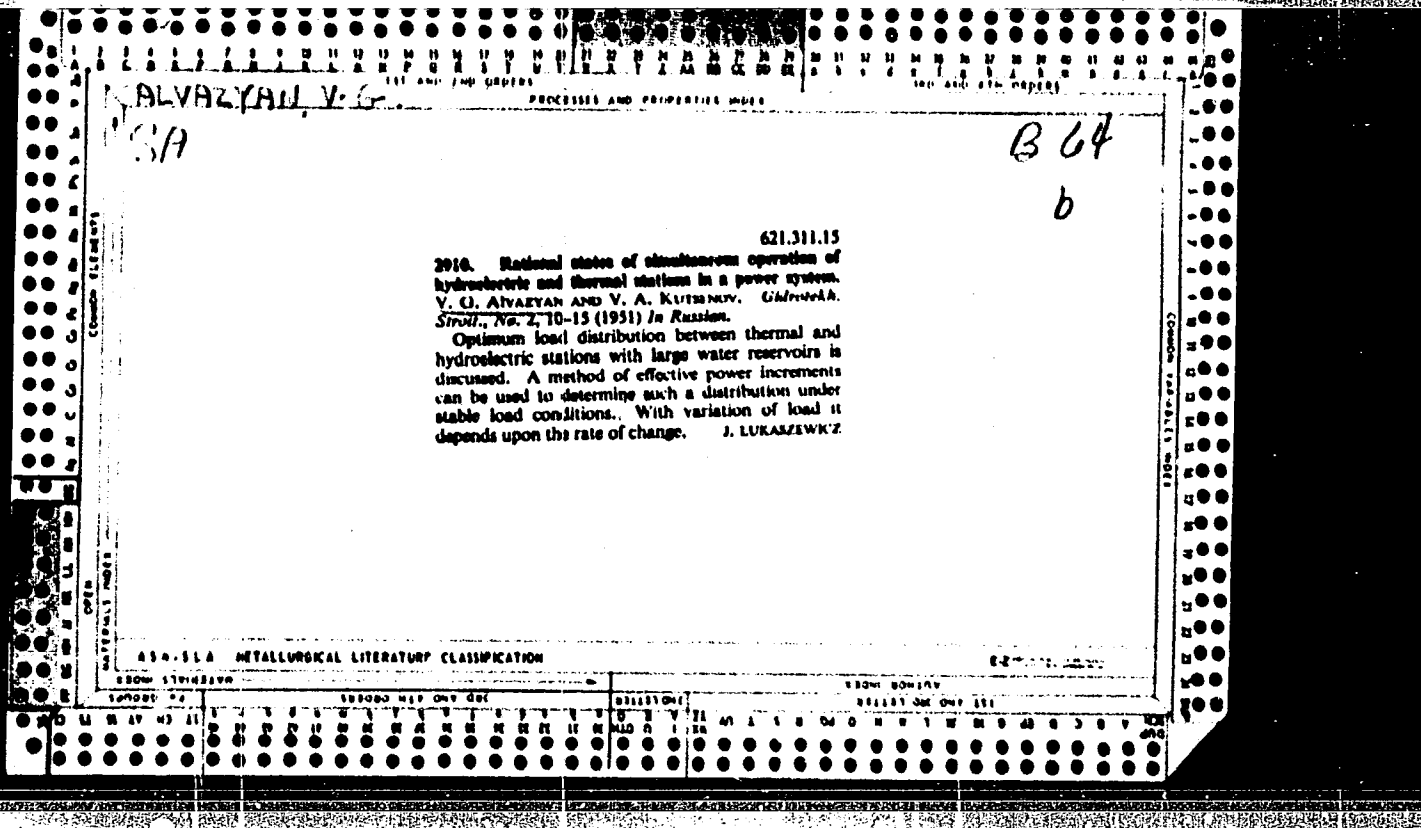
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Rastorguev, V. I. and Kh. Alvaraz. Description of Antarctic Circulation as Observed from April to November 1957	110
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Zhdanov, L. A. On the Characteristics of Synoptical Processes in the Southern Hemisphere in the Summer of 1955-1956	252
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STANISLAVLEVA, Ye.H., starshiy nauchnyy sotrudnik; AL'VAREV, L.A., mladshiy  
nauchnyy sotrudnik

Decompression operations in tuberculous spondylitis complicated by  
paraplegia. Ortop.travn.i protez. 20 no.9:53-56 S '59.

(MIRA 13:2)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza  
Mindsdrava RSFSR (direktor - kand.med.nauk V.F. Chernyshcv).  
(TUBERCULOSIS, SPINAL, complications)  
(PARAPLEGIA, etiology)



RUMANIA/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101157

Author : Radu, A., Radu, Gh., Alvemir, S.

Inst : -

Title : Fattening of Swine for Bacon.

Orig Pub: Probl. zootehn., 1957, No. 6, 46-54

Abstract: When swine are fattened for bacon, the duration of fattening is 4-6 months, and it is computed that at such time 6-8 months old piglets should attain a weight of 85-100 kg, which is prerequisite for 1st grade bacon. The fattening process is divided into 3 periods. During the 1st period, which lasts 8-12 weeks, daily weight gains should amount to 300-400 g and reach 550-600 g. at the end of this period.

Card 1/2

16

AL'VEN, Kh. [Alfven, H.]

Origin of the solar system [with summary in English]. Vop.kosm. 6:78-97  
'58. (MIRA 11:10)

(Solar system)

ALVER, V.

"Results of the All-Union competition in projects for dairy barns."

p. 554 (Sotsialistlik Põllumajandus) Vol. 12, no. 12, Dec. 1957  
Tallinn, Estonia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958



ALVIN, D.

PROCESSES AND PROPERTIES INDEX

10

Dimethylindole. L. Petrova and D. Al'vin. *Mak-*  
*betee Zhivooe Dole 11, 320(1935)*.—A yield of 30-40%  
of  $\alpha, \beta$ -dimethylindole, m. 95°, was obtained by following  
the method of Ger. pat. 574,849. Chas. Blanc

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALVIN-GUTSATS, I.I.I. PROCESSES AND PROPERTIES INDEX

Primary alcohols. P. Ya. Loshakov and D. A. Alvin-Gutsats. Russ. 81,481; Oct. 31, 1933. Primary alcohols with the same number of C atoms as the acid of the corresponding ester are prepared by reducing esters in abs. alc. with activated Al in the presence of catalysts such as  $ZnCl_2$ ,  $CuCl_2$  or  $Zn$ .

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

GROUPS: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

PERIODS: I II III IV V VI VII VIII IX X XI XII XIII XIV XV XVI XVII XVIII XIX XX XXI XXII XXIII XXIV XXV XXVI XXVII XXVIII XXIX XXX

TOPICS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ALVIN GUTSATS, D. M. 10

CO

Hydroquinone from quinone and quinhydrin. D. M. Alvin-GUTSATS. Russ. 32,493, Oct. 31, 1933. The reduction is carried out with a soln. of bisulfite.

ASB-566 METALLURGICAL LITERATURE CLASSIFICATION

GROUP	CLASSIFICATION	REMARKS
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1ST AND 2ND SERIES

PROCESSES AND PROPERTIES INDEX

100 AND 2TH ORDER

10

Ca

Hydrogenating diamic acid and its homologs. P. Ya. Loshakov and D. M. Al'vin-Gutants. Russ. 37, 718 (1934) July 31, 1934. Hydrogenation is effected in the presence of activated Al and in a medium of abs. alc.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

15000 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000

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100 AND 4TH OBJECT

PROCESSES AND PROPERTIES INDEX

10

*ca*

Separation of saturated from unsaturated aldehydes.  
U. N. Al'rina-Gintals. Russ. 44,250, Sept. 30, 1935. A suspension or a soln. of bisulfite compds. obtained in the treatment of the aldehyde mixt. with bisulfites is treated with  $\text{Na}_2\text{CO}_3$  first in the cold to sep. the satd. aldehydes and then with heating to ppt. the unsatd. aldehydes.

ASB-514 METALLURGICAL LITERATURE CLASSIFICATION

1100-110000-00000

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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REVISED INDEX

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PROCESSES AND PROPERTIES INDEX

3RD AND 4TH COPIES

ca

10

Aromatic hydroxy aldehydes. P. Ya. Loshakov and D. M. Al'vin-Gutants. Russ. 55,851, Oct. 31, 1939; abstr. to Russ. 50,437 (C. A. 33, 8544<sup>g</sup>). The method of Russ. 50,437 is modified in that  $\text{CH}_2\text{O}$  is introduced into the reaction mixt. only after all the phenol needed for the reaction has been introduced.

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

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ALWAS, Irena; DERLIKOWSKI, Jerzy; NARBUTT-MERING, Alina-Barbara;  
PERKOWSKI, Edward; WEGLOWSKA, Wanda

Use of paper iontophoresis for the separation of alkaloid mixtures.  
Acta pol. pharm. 28 no.5:357-363 '61.

1. Z Zakładu Chemii Analitycznej Instytutu Leków Kierownik Zakładu:  
dr inż. mgr inż. Z. Margasiński. (ALKALOIDS chem) (IONTOPHORESIS)



ALWIN, Krystyna

The masticatory apparatus in the compensation of grasping functions after bilateral shoulder amputation. Chir.narz.ruchu ortop.polska 25 no.5:501-504 '60.

1. Z Kliniki Ortopedycznej A.M. w Poznaniu, Kierownik: prof.dr W. Dega oraz z Zakladu Ortodoncji A.M. w Poznaniu, Kierownik: z-ca prof. dr T.Ziolkiewicz.  
(AMPUTEES)  
(JAWS)

ALYABINA, M.G., kand.med.nauk; STUKALOVA, B.Ya., kand.med.nauk

Study of the effectiveness of chemotherapy of tuberculosis according to the plan proposed by the International Antituberculosis Association. Probl. tub. 41 no.8:24-28 '63. (MIRA 17:9)

1. Iz Tsentral'nogo Instituta tuberkuloza (dir. - deyatvitel'nyy chlen AMN SSSR prof. N.A.Shmelev) Ministerstva zdravookhraneniya SSSR.

ALYABINA, M.G., kand. med. nauk

Eighth Scientific Session of the Central Institute of Tuberculosis of the Ministry of Public Health of the U.S.S.R. Probl. tub. 41 no.9:79-82 '63 (MIRA 1964)

L 52177-65 EW(1)/FCC GW

ACCESSION NR: AP5015537

UR/0286/65/000/008/0079/0079

AUTHORS: Oshuprev, A. G.; Alyabina, Ya. A.; Sadokov, A. P.; Safronova, Ye. V.; Tseytlin, V. M.

TITLE: Propellant for aerosol balloons. Class 45, No. 170244

2/15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 79

TOPIC TAGS: aerosol, propellant, balloon, freon/ 318 S freon, 124 freon

ABSTRACT: This Author Certificate presents a propellant for aerosol balloons, based on an azeotropic mixture of freons. To increase the assortment of propellants, freons 318 S and 124 are used as the mixture of azeotropic freons.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: 0831163

ENCL: 00

SUB CODE: FP, CG

NO REF SOV: 000

OTHER: 000

CS 1/1

KOMAROVSKIY, Aleksandr Nikolayevich, prof., doktor tekhn.nauk; ALTAB'YEV,  
A.F., red.; MAZEL', Ye.I., tekhn.red.

[Structural design of particle accelerators] Stroitel'nye  
konstruktsii uskoritelei. Moskva, Izd-vo glav.upr. po ispol'-  
zovaniyu atomnoi energii pri Sovete ministrov SSSR, 1958. 108 p.  
(MIRA 12:4)

(Particle accelerators)

KOMAROVSKIY, Aleksandr Nikolayevich, prof., doktor tekhn.nauk; ALYAB'YEV,  
A.F., red.; MAZEL', Ye.I., tekhn.red.

[Construction materials for protection against radiation from  
nuclear reactors and accelerators] Stroitel'nye materialy dlia  
zashchity ot izlucheni iadernykh reaktorov i uskoritelei. Moskva,  
Atomizdat, 1958. 123 p. (MIRA 12:4)  
(Concrete construction) (Radiation protection)

MARCHUK, Guriy Ivanovich, doktor fiz.-mat.nauk; ALYAB'YEV, A.F., red.;  
MAZEL', Ye.I., tekhn.red.

[Numerical methods for calculating nuclear reactors] Chislennyye  
metody rascheta iadernykh reaktorov. Moskva, ATOMIZDAT, 1958. 381 p.  
(Atomnaya energiya. Supplement no. 3/4). (MIRA 11:8)  
(Nuclear reactors)

GUSEV, Nikolay Grigor'yevich; KOVALEV, Yevgeniy Yevgen'yevich;  
ALYAB'YEV, A.F., red.; VLASOVA, N.A., tekhn.red.

[Nomograms for calculating shielding from gamma rays Ra, Co<sup>60</sup>, Cs<sup>137</sup>, and Ir<sup>192</sup>] Nomogrammy dlia rascheta zashchity ot gamma-luchei Ra, Co<sup>60</sup>, Cs<sup>137</sup>, i Ir<sup>192</sup>. Moskva, Izd-vo glav.uprav. po ispol'zovaniiu atomnoi energii pri Sovete Ministrov SSSR, 1959. 71 p. (MIRA 12:7)  
(Gamma rays) (Shielding (Radiation))



LEBEDINSKIY, A.V., red.; ALYAB'YEV, A.F., red.; MAZEL', Ye.M., tekhn.red.

[Soviet scientists on the danger of testing nuclear weapons]  
Sovetskie uchenye ob opasnosti ispytaniy iadernogo oruzhiya.  
Moskva, Izd-vo glav.upr.po ispol'zovaniyu atomnoi energ. pri  
Sovete ministrov SSSR, 1959. 116 p. (MIRA 12:5)

1. Chlen-korrespondent AMN SSSR (for Lebedinskiy).  
(Radioactive fallout) (Radioactivity--Physiological effect)

DOLLEZHAI', N.A., obshchiy red.; KRASIN, A.K., doktor fiz.-mat.nauk, obshchiy red.; LEYPUNSKIY, A.I., obshchiy red.; NOVIKOV, I.I., obshchiy red.; FURSOV, V.S., doktor fiz.-mat.nauk, obshchiy red.; KORYAKIN, Yu.I., nauchnyy red.; ALYAB'YEV, A.F., red.; MAZEL', Ye.I., tekhn.red.

[Proceedings of the Second International Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958] Trudy Vtoroi mezhdunarodnoy konferentsii po mirnomu ispol'zovaniyu atomnoy energii, Zheneva, 1958. Moskva, Izd-vo Glav.uprav.po ispol'zovaniyu atomnoi energ. pri Sovete Ministrov SSSR. Vol.2. [Nuclear reactors and nuclear power] IAdernye reaktory i iadernaia energetika. 1959. 707 p. (MIRA 12:11)

1. International Conference on the Peaceful Uses of Atomic Energy, 2d, Geneva, 1958.
2. Chleny-korrespondenty AN SSSR (for Dollezhai', Novikov).
3. Deystvitel'nyy chlen AN USSR (for Leypunskiy). (Nuclear reactors)

GOKHBERG, Boris Mikhaylovich; YAN'KOV, Gleb Borisovich; ALYAB'YEV, A.F.,  
red.; VLASOVA, N.A., tekhn.red.

[Electrostatic charged particle accelerators] Elektrostaticheskie uskoriteli zaryazhennykh chastits. Moskva, Izd-vo Glav. uprav. po ispol'zovaniyu atomnoi energii pri Sovete ministrov SSSR, 1960. 50 p. (MIRA 13:7)  
(Particle accelerators)

STEPANOV, B.M., prof., doktor fiz.-mat. nauk, otv. red.; ALYAB'YEV, A.F.,  
red.; POPOVA, S.M., tekhn. red.

[Automatic and remote control] Avtomatika i telemekhanika; sbornik  
statei. Moskva, Izd-vo Gos. kom-ta Soveta ministrov SSSR po ispol'-  
zovaniyu atomnoi energii, 1960. 98 p. (MIRA 14:9)

1. Moscow. Inzhenerno-fizicheskiy institut.  
(Automatic control) (Remote control)

FEDOROV, Nikolay Dmitriyevich; ALYAB'YEV, A.F., red.; VLASOVA, N.A.,  
tekh.n.red.

[Cyclotron; a cyclic resonance ion accelerator] TSiklotron;  
tsiklicheskiy rezonansnyi uskoritel' ionov. Moskva, Izd-vo Gos.  
komiteta Soveta ministrov SSSR po ispol'zovaniyu atomnoi energii,  
1960. 85 p. (MIRA 13:10)

(Cyclotron)

SURAZHSKIY, Daniil Yakovlevich. Prinimali uchastiye: PUKHAL'SKIY, L.Ch.;  
POSIK, L.N.; SHASHKIN, V.L.. SMIRNOV, V.I., red.; ALYAB'YEV, A.F.,  
red.; POPOVA; S.M., tekhn.red.

[Methods of prospecting and exploration of uranium deposits]  
Metody poiskov i razvedki mestorozhdenii urana. Pod red. V.I.  
Smirnova. Moskva, Izd-vo glav.upr.po ispol'zovaniyu atomnoi  
energii pri Sovete Ministrov SSSR, 1960. 240 p.

(MIRA 13:7)

1. Chlen-korrespondent AN SSSR (for Smirnov).  
(Prospecting) (Uranium ores)

KONSTANTINOV, M.M. [deceased]; KULIKOVA, Ye.Ya.; SAUKOV, A.A., red.;  
ALYAB'YEV, A.F., red.; VLASOVA, N.A., tekhn.red.

[Uranium-bearing provinces] Uranovye provintsii. Pod red.  
A.A.Saukova. Moskva, Izd-vo Glav.uprav.po ispol'zovaniiu  
atomnoi energii pri Sovete Ministrov SSSR, 1960. 306 p.  
(MIRA 13:6)

1. Chlen-korrespondent AN SSSR (for Saukov).  
(Uranium)

TATOCHENKO, Lev Kirillovich; ALYAB'EV, A.F., red.; MAZEL', Ye.I., tekhn.  
red.

[Radioisotopes in the manufacture of instruments] Radioaktivnye  
izotopy v priborostroenii. Moskva, Izd-vo glav.upr.po ispol'zo-  
vaniu atomnoi energii pri Sovete Ministrov SSSR, 1960. 365 p.  
(MIRA 13:8)

(Instrument manufacture)  
(Radioisotope--Industrial applications)



SILINA, G.F.; ZAREMBO, Yu.I.; BERPINA, L.E.; SPITSYN, V.I., akademik,  
red.; ALYAB'YEV, A.P., red.; VLASOVA, N.A., tekhn.red.

[Beryllium; chemical technology and metallurgy] Berillii;  
khimicheskaya tekhnologiya i metallurgiya. Pod red.V.I.Spitsyna.  
Moskva, Izd-vo gos.kom-ta Soveta Ministrov SSSR po ispol'zovaniyu  
atomnoi energii, 1960. 119 p. (MIRA 13:12)  
(Beryllium)

FOMIN, Vladimir Vladimirovich; ALYAB'YEV, A.P., red.; MAZEL', Ye.M.,  
tekhn.red.

[Chemistry of extraction processes] Khimia ekstraktsionnykh  
protssosov. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki  
i tekhniki, 1960. 165 p. (MIRA 14:3)  
(Extraction (Chemistry))

KONDRASHEV, Lev Fedorovich; KHALDIN, Nikolay Nikolayevich; NEMENOV, L.M.,  
doktor tekhn. nauk, red.; ALYAB'YEV, A.F., red.; VLASOVA, N.A.,  
tekhn. red.

[Equipment for nuclear research] Oborudovanie dlia iadernykh issle-  
dovani. Pod red. L.M.Nemenova. Moskva, Gos. izd-vo lit-ry v ob-  
lasti atomnoi nauki i tekhniki, 1961. (MIRA 14:11)  
(Nuclear research)

FRANK-KAMENETSKIY, David Al'bertovich; ALYAB'YEV, A.F., red.; VLASOVA, N.A.,  
tekhn. red.

[Plasma - the fourth state of matter] Plasma - chetvertoe sostoianie  
veshchestva. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i  
tekhniki, 1961. 131 p. (MIRA 14:10)  
(PLASMA (IONIZED GASES))

GRODZENSKIY, David Emmanuilovich; ALYAB'YEV, A.F., red.; VLASOVA, N.V., tekhn.  
red.

[Radiobiology; biological effect of ionizing radiations] Radiobiologia;  
biologicheskoe deistvie ioniziruiushchikh izlucheni. Moskva, Gos. izd-  
vo lit-ry v oblasti atomnoi nauki i tekhniki. 1961. 132 p.  
(MIRA 14:8)

(Radiobiology)

ANAN'YEV, L.M.; VOROB'YEV, A.A.; GORBUNOV, V.I.; ALYAB'YEV, A.F., red.;  
MAZEL', Ye.I., tekhn. red.

[Induction electron accelerator—the betatron] Induktsionnyi usko-  
ritel' elektronov - betatron. Moskva, Gos. izd-vo lit-ry v ob-  
lasti atomnoi nauki i tekhniki, 1961. 349 p. (MIRA 14:9)  
(Betatron)

SILINA, G.F.; ZAREMBO, Yu.I.; BERTINA, L.E.; SPITSYN, V.I., akad., red.;  
ALYAB'YEV, A.F., red.; VLASOVA, N.A., tekhn. red.

[Beryllium; chemical technology and metallurgy] Berillii; khimicheskaia tekhnologiya i metallurgiya. Pod red. V.I. Spitsyna. Moskva, Izd-vo Gos.komiteta Soveta Ministrov SSSR po ispol'zovaniyu atomnoi energii, 1960. 119 p. (MIRA 14:12)  
(Beryllium)

KORYAKIN, Yuriy Ivanovich; ARTAMKIN, V.N., nauchnyy red.; ALYAB'YEV,  
A.F., red.; POPOVA, S.M., tekhn. red.

[Biography of the atom; stories about the discovery and utilization of atomic energy] Biografiia atoma; rasskazy ob otkrytii i ispol'zovanii atomnoi energii. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 206 p. (MIRA 14:12)  
(Atomic energy)



FEDOROV, N.D., kand.tekhn.nauk; ALYAB'YEV, A.F., red.; MAZEL', Ye.I.,  
tekhn.red.

[Concise handbook for technical physicists; nuclear physics,  
atomic physics] Kratkii spravochnik inzhenera-fizika;  
iadernais fizika, atomnaia fizika. Moskva, Gos.izd-vo lit-ry  
v oblasti atomnoi nauki i tekhniki, 1961. 507 p.

(MIRA 14:3)

(Nuclear engineering--Handbooks, manuals, etc.)

ALYAB'YEV, A.F., red.; POPOVA, S.M., tekhn. red.

[Ion, plasma, and electric-arc rocket engines] Ionnye plazmen-  
nye i dugovye raketnye dvigateli; sbornik statei. Moskva, Gos.  
izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 405 p.  
(MIRA 15:2)

(Ion rockets)

(Plasma rockets)

BOCHKARJEV, V.V., red.; PODOSHVINA, V.A., red.; ALYAB'YEV, A.F.,  
red.; VLASOVA, N.A., tekhn.red.

[Production and application of radioisotopes; selected papers  
by foreign scientists] Poluchenie i primeneniye radioaktivnykh  
izotopov; izbrannye doklady inostrannykh uchenykh. Pod red.  
V.V.Bochkareva. Moskva, Gossatomizdat, 1962. 287 p.  
(MIRA 15:11)

1. Mezhdunarodnaya konferentsiya po primeneniyu radioizotopov  
v fizicheskikh naukakh i promyshlennosti, Copenhagen, 1960.  
(Radioisotopes)

VOLKOV, Yu.M.; DORMAN, L.I., doktor fiz.-mat. nauk, red.; ~~ALYAR'YEV,~~  
~~A.P.~~, red.; PCHELINTSEVA, G.M., red.; POPOVA, S.M., tekhn.  
red.

[Plasma in a magnetic field and direct conversion of thermal energy to electric power]Plazma v magnitnom pole i priamoe preobrazovanie teplovoi energii v elektricheskuiu; sbornik statei. Pod red. L.I.Dormana. Moskva, Gosatomizdat, 1962. 470 p. Translated articles from the English. (MIRA 16:3) (Magnetohydrodynamics) (Thermoelectricity)

FRANK-KA'ENETSKIY, David Al'bertovich; ALYAB'YEV, A.F., red.;  
VLASOVA, N.A., tekhn. red. ~~\_\_\_\_\_~~

[Plasma, the fourth state of matter] Plazma - chetvertoe  
sostoianie veshchestva. Izd.2., ispr. Moskva, Gosatomis-  
dat, 1963. 158 p. (MIRA 16:8)  
(Plasma (Ionized gases))

ARTSEMOVICH, Lev Andreyevich; ALYAB'YEV, A.F., red.; VLASOVA,  
N.A., tekhn. red.

[Elementary plasma physics] Elementarnaia fizika plazmy.  
Moskva, Gosatomizdat, 1963. 19. p. (MIRA 16:12)  
(Plasma (Ionized gases))

SURAZHSKIY, D.Ya., red.; ALYAB'YEV, A.F., red.; MAZEL', Ye.I.,  
tekhn. red.

[Problems of applied radiogeology]Voprosy prikladnoi radio-  
geologii; sbornik statei. Moskva, Gosatomizdat, 1963. 276 p.  
(MIRA 16:12)

(Nuclear geophysics)

KONSTANTINOV, B.P., akademik, red.; ALYAB'YEV, A.F., red.; POPOVA,  
S.M., tekhn. red.

[Theory of plasma] Diagnostika plazmy; sbornik statei. Mo-  
skva, Gosatomizdat, 1963. 301 p. (MIRA 16:12)  
(Plasma (Ionized gases))



ALKHAZOV, Vasily Alekseyevich; TKACHEV, Aleksandr Petrovich;  
BURNAZYAN, A.I., red.; ALYAB'YEV, A.F., red.; VLASOVA,  
N.A., tekhn. red.

[Individual means of antichemical and antiradiation protec-  
tion] Individual'nye sredstva protivoradiatsionnoi i pro-  
tivokhimicheskoi zashchity. Moskva, Gosatomizdat, 1963. 59 p.  
(MIRA 17:2)

ZUBKIN, Aleksandr Stepanovich; MEDVEDEV, Valentin Alekseyevich;  
BURNAZYAN, A.I.; ALYAB'YEV, A.F., red.; VLASOVA, N.A.,  
tekh. red.

[What is radioactive contamination and ways to protect  
against it] Chto takoe radioaktivnoe zarazhenie i sposoby  
zashchity ot nego. Moskva, Gosatomizdat, 1963. 52 p.  
(MIRA 17:1)

KOLOMENSKIY, A.A., glav. red.; KUZNETSOV, A.B., red.; LEBEDEV,  
A.N., red.; ALYAB'YEV, A.F., red.; MURADOVA, A.A., red.;  
SMIRNOV, I.P., red.

Transactions of the International Conference on High  
Energy Accelerators. Trudy Mezhdunarodnoi konferentsii  
po uskoriteliam. Pod red. A.A.Kolomenskogo, A.B.Kuznetsova,  
A.N.Lebedeva. Moskva, Atomizdat, 1964. 1091 p. [In Rus-  
sian and English] \_\_\_ List of participants of the International  
Conference on High Energy Accelerators. Spisok uchastnikov Mezhdunarodnoi konferentsii po uskoriteliam (Dubna, 21-27 avgust 1963 g.). Moskva, Atomizdat, 1964. 13 p. (MIRA 17:9)

1. International Conference on High Energy Accelerators. Dubna, 1963. 2. Fizicheskiy institut im. P.N.Lebedeva AN SSSR, Moskva (for Kolomenskiy, Lebedev).

MARKOV, V.K., doktor khim. nauk, prof.; VERNYY, Ye.A., kand. fiz.-mat. nauk; VINOGRADOV, A.V., kand. khim. nauk; YELINSON, S.V., kand. khim. nauk; KLYGIN, A.Ye., kand. khim. nauk; MOISEYEV, I.V., kand. khim. nauk; PANASENKOVA, Ye.L., red.; ALYAB'NEV, A.F., red.

[Uranium; methods for its determination] Uran; metody ego opredeleniya. Izd.2., ispr. i dop. Moskva, Atomizdat, 1964. 502 p. (MIRA 17:12)

YEMEL'YANOV, Vasiliy Semenovich; YEVSTYUKHIN, Aleksandr Ivanovich;  
ALYAB'YEV, A.F., red.; PCHELINTSEVA, G.M., red.

[Metallurgy of nuclear fuel; properties and principles of the technology of uranium, thorium, and plutonium] Metallurgiya iadernogo goriuchego; svoistva i osnovy tekhnologii urana, toriia i plutoniia. Moskva, Atomizdat, 1964. 450 p. (MIRA 18:1)

ALYAB'YEV, A. YA. Card Tech Sci -- (diss) "Examination of defects occurring during the grinding of aircraft and aircraft engine parts, and setting up measures to prevent them," Kiev, 1960, 16 pp, 160 cop. (Kiev Polytechnical Institute) (KL, 44-60, 130)

ALYAB'YEV, A Ya

S/121/61/000/004/008/008  
D040/D113

AUTHOR: None given

TITLE: Dissertations

PERIODICAL: Stanki i instrument, no. 4, 1961, 44

TEXT: The following dissertations were presented for the degree of Candidate: A. Ya. Alyab'yev, at the Kiyevskiy ordena Lenina politekhnicheskii institut (Kiyev "Order of Lenin" Polytechnic Institute), "Investigation of faults occurring in grinding of aircraft frame and aircraft engine parts, and development of measures to prevent them"; I. Z. Bass, at the Moskovskiy avtomekhanicheskii institut (Moscow Automechanical Institute), "Investigation of the thread rolling process, and new rolling tool geometry"; Wang Ch'ih-hao, at the Moskovskiy stankoinstrumental'nyy institut im. I. V. Stalina (Moscow Institute of Machine Tools and Instruments im. I. V. Stalin), "Investigation of vibrations in a gear milling machine"; I. V. Pyshkin, at the Moskovskiy ordena Lenina energeticheskii institut (Moscow "Order of Lenin" Power Engineering Institute), "Problems of the theory and calculation of automatic control systems with pulse width modulation"; V. I. Zhukov, at the Moscow Institute of Machine Tools and instruments im. I. V.

Card 1/2

ALYAB'YEV, A.Ya

Determining time between wheel straightening in grinding  
hardened steels. Trudy Sem.po kach.poverkh. no.5:327-331 '61.  
(MIRA 15:10)

(Grinding and polishing)



ALYAB'YEV, D.M.

Improving operation of portable steam power plants in oil mills.  
Masl.-shir.prom. 20 no.4'27-29 '55. (MLRA 8:9)

1. Vorontzhskiy rasmaslotrest  
(Steam power plants)

ACC NR: AP7002617 (A, N) SOURCE CODE: UR/0413/66/000/023/0130/0130

INVENTOR: Shefter, Ya. I.; Alyab'yev, D. V.

ORG: None

TITLE: A single-chamber pneumatic displacement pump. Class 59, No. 189316  
[announced by the All-Union Scientific Research Institute for Electrification of  
Agriculture (Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii  
sel'skogo khozyaystva)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 130

TOPIC TAGS: pneumatic device, fluid pump

ABSTRACT: This Author's Certificate introduces a single-chamber pneumatic displacement pump. The closed chamber of the pump is submerged in the fluid to be transferred and communicates alternately with a compressed air receiver and with the atmosphere or with the suction line of a compressor by using an air distributor. This distributor is controlled by a device which produces pulses for valve reversal depending on the pressure in the receiver. The efficiency and operating reliability of the pump are improved by making the air distributor in the form of a double-seated spring loaded valve mounted in a cavity permanently connected to the closed pump chamber. An automatic pressure regulator based on Author's Certificate No. 19019 is used as the device for producing pulses.

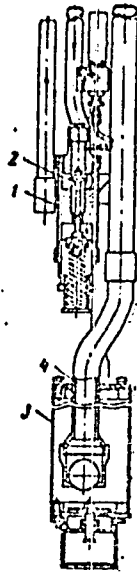
Card 1/2

UDC: 621.691.21

0930

2735

ACC NR: AP7002617



1--air distributor valve; 2--double-seated valve; 3--pump chamber; 4--cavity

SUB CODE: 13/ SUBM DATE: 15May64

Card 2/2

AUTHOR: Alyab'yev, D.V. SOV-115-58-3-8/41

TITLE: A Graphic Method of Determining the Statistical Mean and the Mean Square Deviation (Graficheskiy metod opredeleniya statisticheskogo srednego i srednego kvadrateskogo otkloneniya.)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 3, pp 28 - 29 (USSR)

ABSTRACT: Since the formulae for calculation of the statistical mean and the gravity center of a homogenous body are similar, the author suggests the use of known graphic methods of finding the position of the gravity center in processing the observation results. The described method consists of plotting a diagram as illustrated (p 29), using a ruler with a scale of square units, and if high accuracy is required, the suggested formula. If such a ruler is not available, a table of squares and a common metric ruler can be used instead. The suggested method requires less time than the analytical method and eliminates gross errors.

1. Gravity--Determination 2. Mathematics--Applications

Card 1/1

ALYAB'EV, G. A.

Alyab'ev, G. A. - "Magnesium in biological matter." In symposium: Issledovaniya v oblasti  
koren toksikologii, Leningrad, 1968, p. 226-31 - Bibliog: 20 items

SO: U-3600, 10 July 69. (Letopis' Zhurnal'nykh Statey, No. 6, 1969).

ALYAB'YEV, L.M., starshiy elektromekhanik

Stand for vibrational testing of automatic cab signaling  
equipment. Avtom., telem. i sviaz' 6 no.6:42-43 Je '62.

(MIRA 15:7)

1. Kontrol'no-ispytatel'naya stantsiya Vorkutinskoy distantzii  
signalizatsii i svyazi Severnoy dorogi.

(Railroads--Electronic equipment)

ALYAB'YEV, M. I., Docent

PA 167T7

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USSR/Electricity - Electric Machines  
Commutation

May 50

"Experimental Determination of the Reaction of Commutation Currents in DC Machines," Docent M. I. Alyab'yev, Cand Tech Sci, Acad imeni Krylov

"Elektrichestvo" No 5, pp 23-25

Method for determining MMF reaction of commutation currents from data for generator and motor conditions, in which currents in interpoles, armature, and excitation winding are respectively the same. Speeds are of same magnitude but in opposite directions. Gives ways of improving method described in "Elektrichestvo" No 4, 1949. Submitted 8 Oct 49.

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167T7

ALYAB'YEV, M. I., Docent

USSR/Electricity - Amplidynes  
Motors, DC

Feb 52

"Experimental Determination of Commutation Re-  
action in Amplidynes and in DC Machines," Docent  
M. I. Alyab'yev, Cand Tech Sci, Leningrad

"Elektrichestvo" No 2, pp 48-52

Gives 3 methods for detg the magnetizing force  
along the quadrature reactance axis of the  
commutating sections of the armature, based upon  
the difference in signs of the magnetizing force  
under generator and motor operating conditions.  
Submitted 20 Apr 51.

208T27



ALYAB'YEV, M.I.

Generalized vectors, reactances and flux linkages of the synchronous  
machine. Elektrichestvo '53, No.1, 31-7. (MLRA 6:2)  
(EEA 56 no.670:3931 '53)

ALYAB'INV, M.I.

Operator equations for voltages, currents and flux linkages of a synchronous machine for non-zero initial conditions. Elektrichestvo '53, No.3, 44-51.  
(EEA 56 no.672:4730 '53) (MIRA 6:3)

SOV/144-59-12-0/21

AUTHOR: Alyabiyev, M.I., Candidate of Technical Sciences, Detsent

TITLE: A Generalization of the Operator Equations and a  
Classification of the Parameters of Electrical Machines

PERIODICAL: Izvestiya vysshih uchebnykh zavedeniy, Elektromekhanika,  
1959, Nr 12, pp 49-61 (USSR)

ABSTRACT: Over the past decade a number of authors have made  
various approaches to machine theory and many different  
parameters and equations have been derived which are not  
directly comparable or easily related. The following  
aspects have been investigated: 1. description of  
parameter; 2. symbol; 3. exact definition;  
4. assumptions; 5. method of investigation; 6. coordinate  
axis, 7. type of machine or group of machines;  
6. suitable generalization. The main sections are devoted  
to: a classification of methods of investigation;  
equations for vector projections, parameters and  
coefficients of the stator windings of salient pole  
machines; equations for vectors in non-salient pole  
polyphase doubly-fed machines; complex operators for the  
stator of a doubly-fed non-salient pole machine; equations  
for vector components of doubly-fed non salient pole ✓

Card 1/2

SOV/144-59-12-5/21

A Generalization of the Operator Equations and a Classification of the Parameters of Electrical Machines

machines. It is concluded that the various equations developed for machines and transformers can be divided into three groups: those representing vectors; those for vector projections and those for vector components. The equations are generalized for synchronous, asynchronous, polyphase, single-phase machines at any constant speed or initial conditions. As an example of the detailed treatment the question of axes may be cited. Four axes systems are recognized:  $(x, y)$  rotating with respect to the stator at a fixed, arbitrary speed;  $(u, v)$  rotating synchronously;  $(d, q)$  rotating with the rotor;  $(\alpha, \beta)$  fixed, the  $\alpha$  axis coinciding with a certain stator phase. Symbols are then adopted for the three groups of equations mentioned above (see Table 1). There are 1 table and 7 Soviet references.

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TITLE: Equations for A. C. Machines Using Physical and Relative Units

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ABSTRACT: The shortcomings of the papers (Refs 1, 2) are pointed out. The results of working out, analyzing and comparing ten measuring systems are given here. Relations and equations valid for "ideal" electrical machines are used. All the systems of measuring can be divided into two groups: physical systems of measuring and systems with relative units. The individual systems of measuring are discussed. They are: physical system of measuring, first simplified physical system of measuring, second simplified physical system of measuring, abnormal system of relative units, system of relative units with a basic e. m. f., system of relative units with equal intensity of magnetization, system of relative units with equal mutual inductance, system of relative units with equal mutual inductance and a basic e. m. f., system of relative units with equal mutual inductance

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Equations for A. C. Machines Using Physical  
and Relative Units

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and intensity of magnetization, stator-system of relative units. The basic units which are common to all systems of relative units are discussed, and the equations for the interlinkages of the stator in the various systems of measuring are given. The following is stated in conclusion: for an initial analytical investigation of any transition process it is suitable to use the first simplified physical system of measuring. When using equations which are written down in this system of measuring, a running control of the investigation is possible according to the dimensions of the individual links of the equations. The simplification for this system of measuring consists in the absence of the multiplicands  $\omega_0$  and  $10^8$ . One exception is to be made when investigating synchronous machines with a great number of rotor circuits. In this case it is more suitable to use the system of relative units with a basic electromotive force. This system is also to be recommended for calculations with the help of tried-out methods. There are 8 tables and 4 references, 2 of which are Soviet. ✓

SUBMITTED: November 10, 1958  
Card 2/2

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