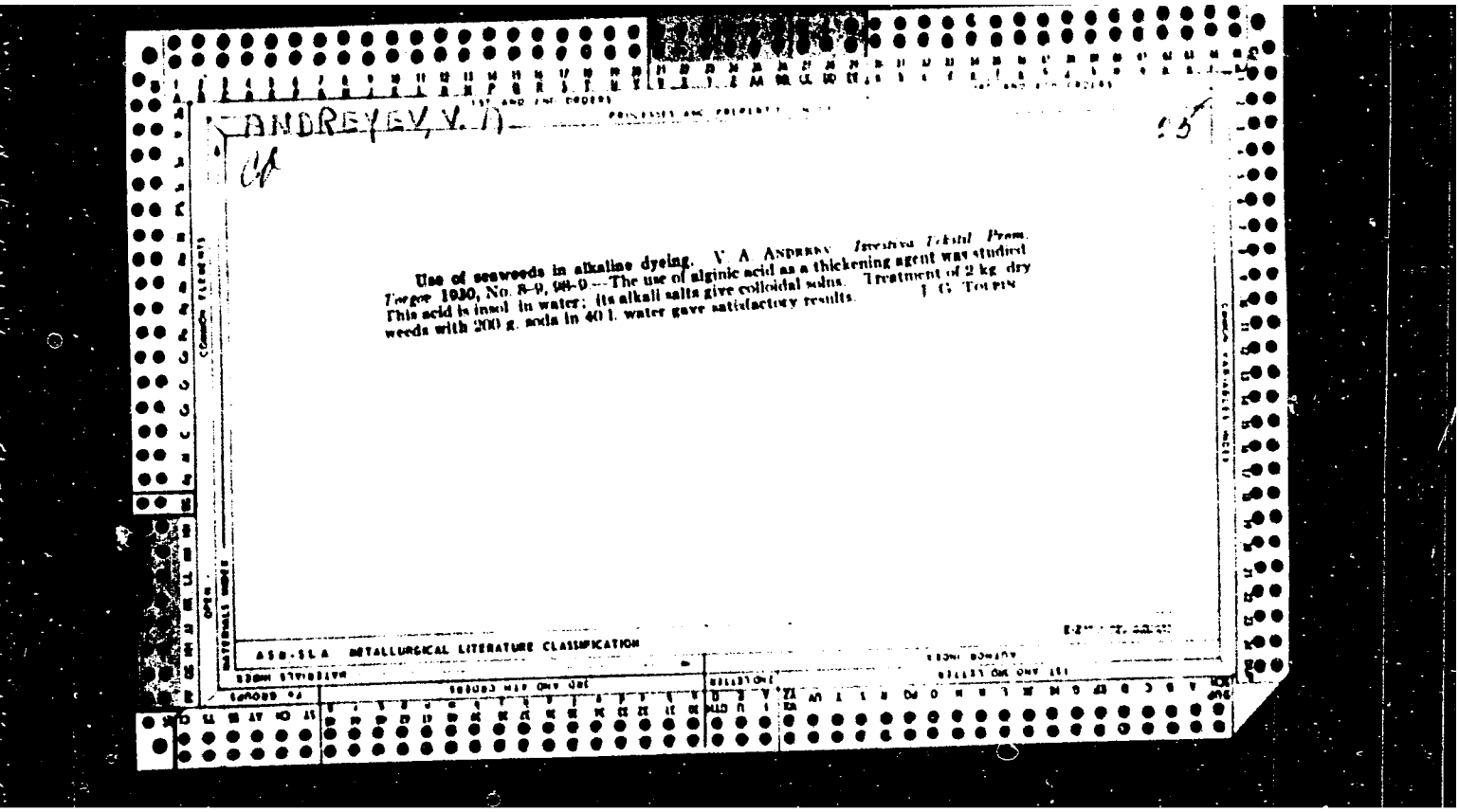
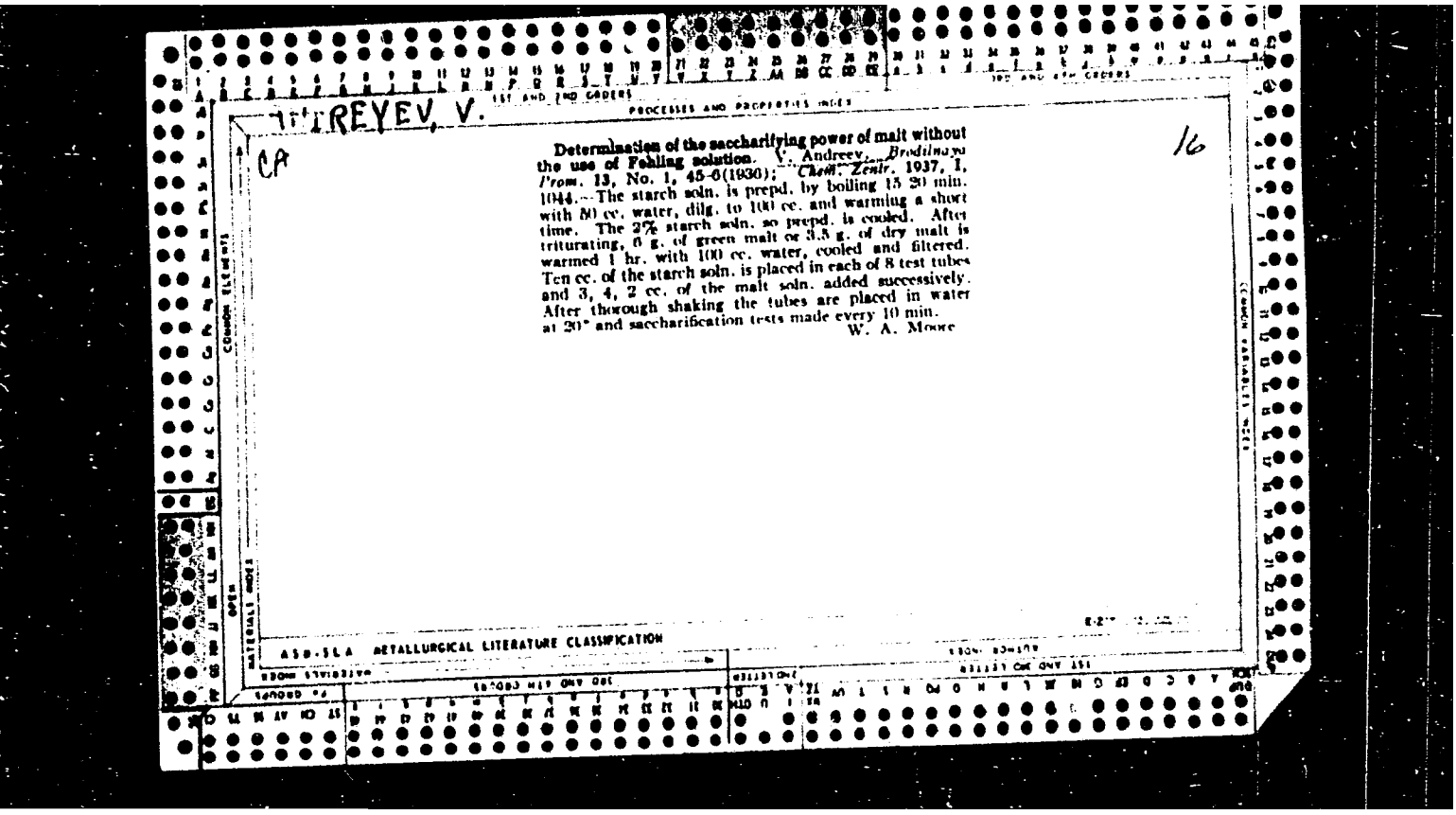


ANDREYEV, V. A.

Use of seaweeds in alkaline dyeing. V. A. Andreev. *Izvestiya Tekstil. Prom. Tsvetov* 1930, No. 8-9, 98-9.—The use of alginic acid as a thickening agent was studied. This acid is insol. in water; its alkali salts give colloidal solns. Treatment of 2 kg. dry weeds with 200 g. soda in 40 l. water gave satisfactory results. I. G. Teupin

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION



TREYEV, V.

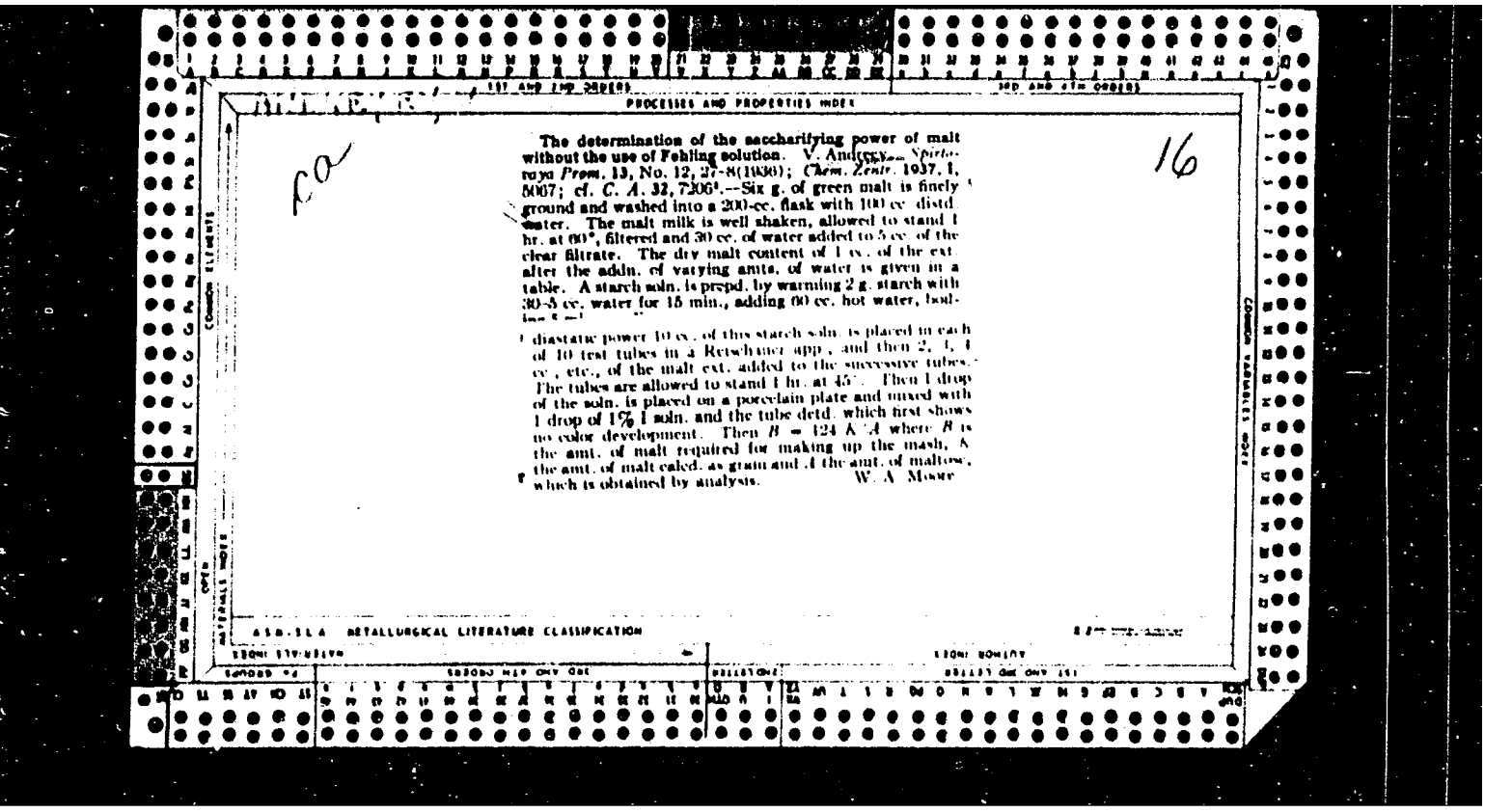
CA

16

Determination of the saccharifying power of malt without the use of Fehling solution. V. Andreev. *Brodilnaya Prom.* 13, No. 1, 45-6(1936); *Chem. Zentr.* 1937, I, 1044.—The starch soln. is prepd. by boiling 15-20 min. with 80 cc. water, dilg. to 100 cc. and warming a short time. The 2% starch soln. so prepd. is cooled. After triturating, 0 g. of green malt or 3.5 g. of dry malt is warmed 1 hr. with 100 cc. water, cooled and filtered. Ten cc. of the starch soln. is placed in each of 8 test tubes and 3, 4, 2 cc. of the malt soln. added successively. After thorough shaking the tubes are placed in water at 20° and saccharification tests made every 10 min.

W. A. Mowe

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

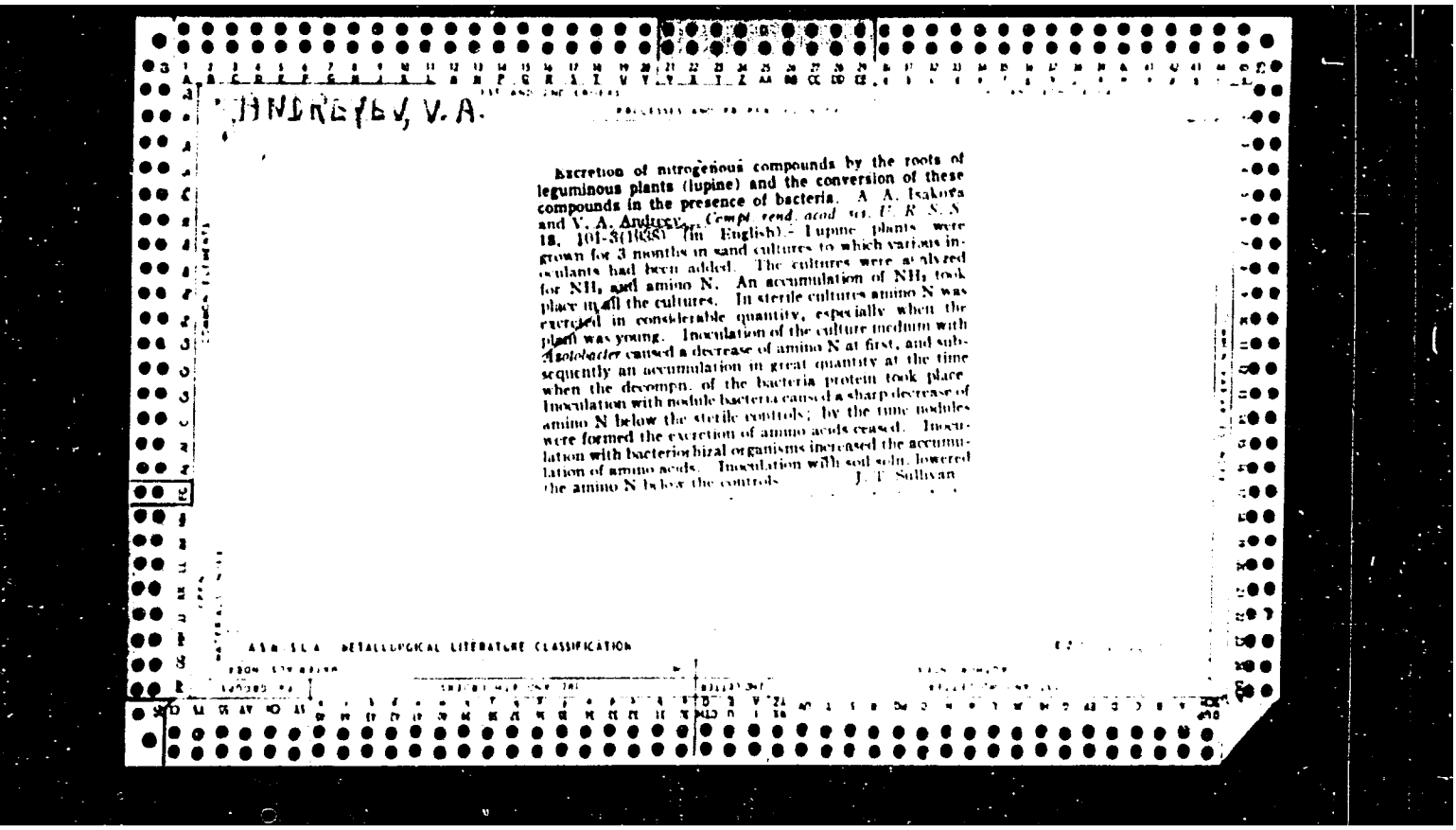


PROCESSES AND PROPERTIES INDEX

The determination of the saccharifying power of malt without the use of Fehling solution. V. Andreev. *Spirto-vaya Prom.* 13, No. 12, 27-8(1938); *Chem. Zentr.* 1937, I, 3007; cf. *C. A.* 32, 7206⁸.—Six g. of green malt is finely ground and washed into a 200-cc. flask with 100 cc. distd. water. The malt milk is well shaken, allowed to stand 1 hr. at 60°, filtered and 30 cc. of water added to 5 cc. of the clear filtrate. The dry malt content of 1 cc. of the ext. after the addn. of varying amts. of water is given in a table. A starch soln. is prepd. by warming 2 g. starch with 30-5 cc. water for 15 min., adding 60 cc. hot water, boil-

diastatic power 10 cc. of this starch soln. is placed in each of 10 test tubes in a Reischauer app., and then 2, 3, 4 cc., etc., of the malt ext. added to the successive tubes. The tubes are allowed to stand 1 hr. at 45°. Then 1 drop of the soln. is placed on a porcelain plate and mixed with 1 drop of 1% I soln. and the tube detd. which first shows no color development. Then $B = 124\ A/A$ where B is the amt. of malt required for making up the mash, A the amt. of malt calcd. as grain and A the amt. of maltose, which is obtained by analysis. W. A. Mosur

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION



ANDREYEV, V. A.

Excretion of nitrogenous compounds by the roots of leguminous plants (lupine) and the conversion of these compounds in the presence of bacteria. A. A. Isakova and V. A. Andreyev. *Compt. rend. acad. sci. U. R. S. S.* 18, 101-3(1938) (in English).—Lupine plants were grown for 3 months in sand cultures to which various inoculants had been added. The cultures were analyzed for NH_3 and amino N. An accumulation of NH_3 took place in all the cultures. In sterile cultures amino N was excreted in considerable quantity, especially when the plant was young. Inoculation of the culture medium with *Azotobacter* caused a decrease of amino N at first, and subsequently an accumulation in great quantity at the time when the decompn. of the bacteria protein took place. Inoculation with nodule bacteria caused a sharp decrease of amino N below the sterile controls; by the time nodules were formed the excretion of amino acids ceased. Inoculation with bacteriohizal organisms increased the accumulation of amino acids. Inoculation with soil soln. lowered the amino N below the controls. J. F. Sullivan

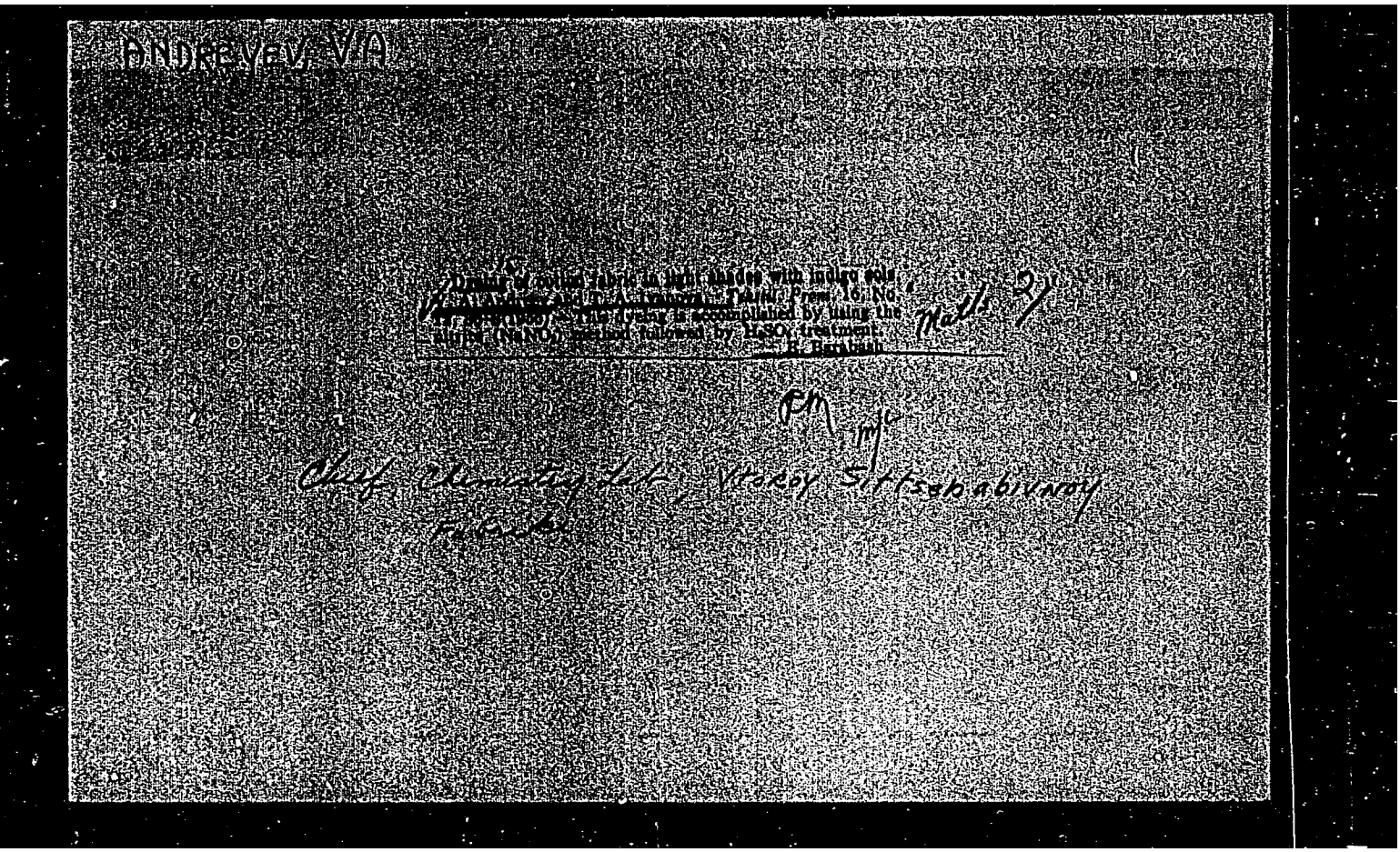
ASTIA METALLURGICAL LITERATURE CLASSIFICATION

ANDREYEV, V.A.

Combating excessive stretching of cotton fabrics. Tekst.prom. 15 no.7:21 Jl'55. (MLRA 8:10)

1. Zaveduyushchiy khimicheskoy laboratoriyey Vtoroy sittsenabivnoy fabriki

(Cotton finishing)



SOLYARSKIY, A.P., inzh.; ANDREYEV, V.A., inzh.; RODOV, E.S., inzh.

Producing mineral wool on multiroller centrifuges. Mont.i spets. rab.v stroi. 22 no.6:23-26 Jl '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy proyektnyy institut Teploproyekt.
(Mineral wool)

ANDREYEV, V.A.:

ANDREYEV, V.A.: "Transverse differential protection of parallel lines". Moscow, 1955. Min Higher Education USSR. Moscow Order of Lenin Power Engineering Inst imeni V.M. Molotov, Chair of Relay Protection and the Automation of Power Systems. (Dissertations for the Degree of Candidate of Technical Sciences).

SO: Knizhnaya letopis' No. 44, 29 October, 1955, Moscow

Andreyev V.A

ANDREYEV, V.A.

Combined transverse differential relay for two parallel lines. Trudy Inst. vod. khoz. i energ. AN Kir. SSR no.4:207-213 '57. (MIRA 10:12)

(Electric relays)

S/112/59/000/012/031/097
A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 82, # 24473

AUTHOR: Andreyev, V.A.

TITLE: The Effect of Capacitive Conductivity of Transmission Lines on the Zones of Cascade Action of Transverse Differential Protection

PERIODICAL: Tr. Frunzensk. politekhn. in-ta, 1957, No. 1, pp. 41-46

TEXT: An analysis is given of the effect of capacitive conductivity of long transmission lines (free of losses and without an allowance for an interconnection between parallel transmission lines) on the zone of cascade action of a transverse differential protection of these transmission lines. It is shown that this effect becomes appreciable when the length of a transmission line exceeds 500 km.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

ANDREYEV, V.A., kand.tekhn.nauk.

Balanced current protection for three parallel lines. Elektrichestvo no.1:39-44 Ja '58. (MIRA 11:2)

1.Frunzenskiy politenhen'chesky institut.
(Electric lines)

ANDREYEV, V.A., kand.tekhn.nauk, dotsent

Systems of selective cross differential protection of two parallel lines during compound faults with line breaks. Izv. vys. ucheb. zav.; energ. no.5:1-10 My '58. (MIRA 11:8)

1.Frunzenskiy politekhnicheskiy institut.
(Electric lines)

8(0)

AUTHOR: Andreyev, V. A., Candidate of Technical Sciences, Docent SOV/105-59-1-27/29

TITLE: V. L. Fabrikant. "Theory of Coilings for the Alternating Current Relay" (V. L. Fabrikant. Teoriya obmotok rele peremennogo toka.)

PERIODICAL: Elektrichestvo, 1959, Nr 1, pp 94-95 (USSR)

ABSTRACT: This is the review of a book. The book has 261 pages, costs 13 rubles 75 kopecks, and appeared in 1958 in the Gosenergoizdat publishing house. It is divided in 9 chapters, and has an appendix and a section of references. The main part is occupied by the theory of coilings for multipolar relays. A new method for choosing coilings for a multipolar relay is given. The theory of coilings for multipolar relays is based on the matrix algebra. In spite of the difficult subject, the book is well written. The reference section is composed with great care.

Card 1/1

ANDREYEV, V.A.; KIM, P.D.

Electric power supply system for the Golodnaya Steppe. Mat. po proizv. sil. Uzb. no.15:376-382 '60. (MIRA 14:8)

1. Sredazgiprovodkhlopok.
(Golodnaya Steppe--Electric power)

ANDREYEV, V.

Mandrel for driving in clamps fastening telephone lines. Mor.flot 16 no.5:27 My '56. (MLRA 9:8)

1. Nachal'nik Byuro ratsionalizatsii i izobretatel'stva Kanonerskogo sudostroitel'no-sudoremontnogo zavoda.
(Tools)

L 13229-63 EWT(1)/EDS AFFTC/ASD (Y) S/044/63/000/003/042/047

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AUTHOR: Andreyev, Vasiliy

TITLE: The computation of complex frequencies of damped systems with many degrees of freedom

PERIODICAL: Referativnyy Zhurnal, Matematika, no.3, 1963, 9, Abstract 3V35 (Glasnik Mat.-Fiz. Astron., v. 16 no. 3-4, 1961, 205-227; summary in Serbo-Croatian).

TEXT: A method is proposed for solving the characteristic equation $f(z) = 0$ of a stable mechanical system with m degrees of freedom. The function $f(z)$ is a polynomial of the 2m-th degree whose roots are of the form: $-\alpha_k \pm i\beta_k$, where $\alpha_k > 0$, $\beta_k > 0$ $(k = 1, \ldots, m)$. The method consists of the following stages: 1) Using Horner's method we find the polynomial $F(z) = f(z - s)$ where s is some positive number. 2) Setting up a Routh scheme for the polynomial F(z). If it can be seen from the Routh scheme that F(z) is unstable (stable) polynomial, then the parameter s is decreased (increased), leaving it positive, and stages 1 and 2 are repeated. Thus, we proceed along

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L 13229-63

The computation of complex .....

the axis of ordinates until one of the residuals in the Routh scheme does not go to zero. Let this take place for the polynomial $F^*(z) = f(z - s^*)$. In this case the roots $-s^* \pm i\beta_k(s^*)$ $(k = 1, \ldots, r)$ or the polynomial $f(z)$ are found on the line $x = s^*$. The residue $R(z)$ which precedes a residue that vanishes in the Routh scheme can be represented in the form of the product

$$R(z) = c \sum_{k=1}^{r} [z^2 + \beta_k^2(s^*)]$$

(c is a constant). This equality is utilized in finding the quantities $\beta_k(s^*)$. After finding the roots $-s^* \pm i\beta_k(s^*)$ one finds the polynomial

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The computation of complex .....

$$\varphi(z) = f(z) \Big/ \prod_{k=1}^{r} [z^2 + 2zs^* + (s^*)^2 + k^2 (s^*)]$$

then applies the method again to this polynomial. Several procedures are given for selecting the parameter s. Methods are indicated for controlling the computations in the first and second stages. A detailed numerical example is given.

Card 3/3

ANDREYEV, V.A., kand.tekhn.nauk, dotsent

Special features of relay protection systems in Czechoslovakia. Trudy Frunz. politekh.inst. no. 6:7-14 '62.

Overcurrent protection systems using a primary relay with direct action. Ibid.:89-106 (MIRA 17:9)

ANDREYEV, V.A., kand. tekhn. nauk

Optimum fundamental dimension of toroidal cores for saturable reactors with multiple windings. Elektrotekhnika 35 no.6:14-15 Je '64. (MIRA 17:8)

ANDREYEV, V.A

2

Meteorological Abst.
Vol. 4 No. 9
September 1953
Part 2
Biblography on the
Climatology and
Marine Meteorology
of the Pacific

41-272 551.582.2(266.5)
*Andreev, V., Kuril'skie Ostrova. [Kurile Islands.] *Morskoi Sbornik*, Leningrad, 21(11, 12): 75-87, 87-99, 1938. figs., tables, refs. DLC—The second part gives data for temperature, cloudiness, fog frequency, precipitation, wind, hydrographic and ice conditions. *Subject Headings:* 1. Climatic data 2. Climate of Kurile Islands 3. Kurile Islands, Northwest Pacific.—*A.A.*

EH
4/14/54

ANDREYEV, V. A.

USSR/Geophysics - Potential Fields Mar/Apr 52

"Computation of Spatial Distribution of Potential Fields and Their Application in Geophysical Research. III," V.A. Andreyev, Leningrad Mining Inst

"Iz Ak Nauk SSSR, Ser Geofiz" No 2, pp 22-30

(See Part I: Trudy VIRG (All-Union Sci Res Inst of Geophys Prospecting) Vol 3 (1950). Analyzes practical schemes and examples of computation of potential fields in the lower half space. As a supplement to the method described in Part II ("Iz Ak Nauk SSSR, Ser Geograf i Geofiz, No 1, 1947), applies the method of networks for soln of problem. Demonstrates that the method may give adequate accuracy. Received 2 Aug 51.

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ANDREYEV, V.A.

Determination of the effective speed of reflected waves based on hodographs plotted in the usual scale and using square-lined transparent sheets. Razved. i prom. geofiz. no.2:3-8 '57.
(MIRA 11:4)

(Seismic waves) (Hodograph)

ANDREYEV G. A.

14(5) PHASE I BOOK EXPLOITATION SOV/2818

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 21. (Exploration and Industrial Geophysics, No. 21) Moscow, Gostoptekhizdat, 1958. 112 p. (Series: Obmen proizvodstvennym opytom) Errata slip inserted. 4,500 copies printed.

Ed.: A. I. Bogdanov; Exec. Ed.: N. P. Dobrynina; Tech. Ed.: I. G. Fedotova.

PURPOSE: This booklet is intended for geophysical engineering and technical personnel in the petroleum industry.

COVERAGE: Individual articles of this collection discuss improvements in methods of interpreting seismic and gravimetric data, testing of seismic receivers, and the refinement of seismic station amplifiers. A nomogram is described for the rapid computation of magnetic properties of rock samples, and a summary is provided of experience in marking oil contacts.

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Exploration and Industrial (Cont.) SOV/2818

Improved methods and equipment of radioactive methods of surveying boreholes are also discussed. References accompany individual articles.

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Exploration and Industrial (Cont.) SOV/2818

AVAILABLE: Library of Congress

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MM/fal
1-7-59

20-119-2-16/60

AUTHOR: Andreyev, V. A.

TITLE: Gravitational Anomalies and the Thickness of Earth's Crust in Continental Regions (Gravitatsionnyye anomalii i moshchnost' zemnoy kory kontinental'nykh oblastey)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2, pp 255 - 256 (USSR)

ABSTRACT: There are at present already sufficiently dependable gravimetric and seismologic data on some regions and therefore the following problem can be posed and partly solved: Does the character of the regional gravitation anomalies coincide with the character of the depth structure of the earth's crust as found in seismology ? It can be assumed that for the continental regions there exists an approximate proportionality of the intensity of the regional gravitation anomalies and of the thickness of the earth's crust. This proportionality need not be maintained any longer for the coastal regions and for oceans; as under the oceans not only the thickness changes but also the composition of the earth's crust varies. In maritime region also regional positive Buge anomalies

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Gravitational Anomalies and the Thickness of Earth's Crust in Continental Regions

occur. The above mentioned proportionality for the range of the continents is explained by the rather important difference of the mean density of the crust materials as well as of the material under the crust. This linear dependence, however, might be rendered more complicated or might even be eliminated by the influence of the density anomaly or the sial shell. This influence is based on the inhomogeneity of the composition and the structure of the deeper layers. Also the incomplete coincidence of the position of the boundary of Mokhorovichich and of the boundary between the sial shell and the sima shell can exert an influence. All this is well proved by facts, and a diagram plotted on the basis of these facts shows the dependence of the intensity of the Buge anomalies on the seismologically determined thickness of the earth's crust. This dependence is actually almost linear. At a thickness of the earth crust of the order of 30 km these anomalies are equal to zero. In regions of great thickness of

MIKOV, Dmitriy Stepanovich; FEDOROV, Aleksandr Anatol'yevich, ANDREYEV, Vsevolod Aleksandrovich; UDODOVA, Ol'ga Vladimirovna; IVANCHURA, Lev Ivanovich

[Geophysical methods of prospecting] Razvedochnaia geofizika. [By] D.S.Mikov i dr. Tomsk, Izd-vo Tomskogo univ., 1961. 340 p. (MIRA 18:5)

ANDREYEV, V.A. (Moskva); LASHKOV, A.I. (Moskva)

Interaction of a reflected shock wave with a boundary layer.
Inzh.zhur. 3 no.4:706-710 '63. (MIRA 16:12)

1. Institut mekhaniki AN SSSR.

ANDREYEV, V.A. (Vladivostok)

Thrombocyte count in the blood. Klin.med. 32 no.2:68-70 F '54.
(MLRA 7:5)

(Blood--Corpuscles and platelets)

ANDREYEV, V.A.

Bromthymol method of determing urinary reaction. Lab.delo no.2:27-28 Mr-Ap '55. (MLRA 8:8)
(URINE,
reaction, bromthymol method)

ANDREYEV, V.A.

Infectious lymphocytosis in adults with minimal symptomatology.
Sov.med. 22 no.7:133-134 Jl '58 (MIRA 11:10)
(LYMPHOCYTES, case reports
infect., in adults with minimal symptomatol. (Rus))

ANDREYEV, V.A.; LEONT'YEV, V.M. (Vladivostok)

Using antibiotic disks in controling antibiotic therapy of non-gonococcal urethritis. Vest.derm. i ven. 32 no.2:71-73 Mr-Ap '58. (MIRA 11:4)

(URETHRITIS, ther.
antibiotics in non-gonococcal urethritis, control by antibiotic disk technic (Rus))
(ANTIBIOTICS, ther. use
non-gonococcal urethritis, control by antibiotic disk method (Rus))

ANDREYEV, V.A. (Vladivostok)

Some observations on the microflora of nonspecific urethritis. Vest. derm. i ven. 33 no.1:65-68 Ja-F '59. (MIRA 12:3)
(URETHRITIS, microbiol.
nonspecific (Rus))

KRYSTEV, V.; ANDREYEV, V.; KIROV, S.

Data on the treatment of cancer of the lower lip in the People's Republic of Bulgaria. Vop. onk. 8 no.1:93-98 '62. (MIRA 15:2)

1. Iz nauchno-issledovatel'skogo onkologicheskogo instituta (dir. - prof. V. Mikhaylov), Sofiya, Narodnaya Respublika Bolgarii. Adres avtorov: Narodnaya Respublika Bolgariya, Sofiya, Nauchno-issledovatel'skiy onkologicheskiy institut.

(BULGARIA--LIPS--CANCER)

ANDREYEV, Vl.; VULKOV, V.S. (Bolgariya, Sofiya, ul. Graf Ivantsev, 49); PENCHEV, P.; KUTINCHEV; MUSTAKOV; DOGRAMADZHIYEV; TOLEV; PORFIROV

Distribution and results of treatment of skin cancer in the Bulgarian People's Republik. Vop.onk. 7 no.5:35-41 '61.
(MIRA 15:1)

1. Iz nauchno-issledovatel'skogo onkologicheskogo instituta (dir. - prof. Ves. Mikhaylov), Nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. - prof. P. Ponkhistov) kafedry kozhno-venericheskikh zabolevaniy Vysshego meditsinskogo instituta v Sofii (zav. - prof. L. Popov) i kafedry kozhno-venericheskikh zabolevaniy Vysshego meditsinskogo instituta v Plovdive (zav. - prof. Buchvarov).
(BULGARIA--SKIN--CANCER)

MIKHAYLOV, Ves., professor; RAYCHEV, R., dotsent; ANDREYEV, Vl.

Neurinoma of the eye (optic nerve) [with summary in English] Vop. onk. 2 no.4:452-457 '56. (MLRA 9:12)

1. Iz nauchno-issledovatel'skogo onkologicheskogo instituta (dir. - prof. Ves.Mikhaylov), Sofiya, Bolgariya.
(NEURILEMMOMA, case reports,
optic nerve (Rus))
(NERVES, OPTIC, neoplasms,
neurilemmoma (Rus))

ANDREYEV, V.

EXCERPTA MEDICA Sec 16 Vol 7/5 Cancer May 59

1739. **Treatment of leucoplakia in the oral cavity with contact X-ray therapy (Bulgarian text)** TENTSHOV G. and ANDREEV VL. *Săvr. med.* 1958, 9/2 (42-48) Tables 3 Illus. 4

A report of 17 cases of leucoplakia of the oral cavity treated with contact X-ray therapy. The doses used varied between 5,000 and 8,000 r. All patients recovered. It is believed that contact X-ray therapy should be the method of choice in the treatment of leucoplakia.

ANDREYEV, V.

EXCERPTA MEDICA Sec 16 Vol 7/5 Cancer May 59

1866. **Carcinoma of the auricle of the ear. Some problems connected with its treatment (Bulgarian text)** ANDREEV V. Sci. Res. Oncol. Inst., Sofia *Savr. Med.* 1958, 9/4 (34-41) Tables 3 Illus. 1

The author discusses the therapeutic results in 41 patients with carcinoma of the auricle, subjected to radiation only. Full recovery for a period lasting more than 3 yr. was obtained in 35 patients. The radiological reaction was weakest in the patients subjected to treatment with radioactive cobalt. Not a single case with necrosis of the cartilage or with perichondritis was recorded. It is the author's opinion that the effect of radiation therapy in the treatment of cancer of the auricle is equal to the effect of electrocoagulation.

YAKOVLEV, A.I.; ANDREYEV, V.A.

Use of the drip-laminar method in producing complement fixation reaction in experimental viral and rickettsial infections. Lab. delo 9 no.3:47-50 Mr '63. (MIRA 16:4)

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR.
(COMPLEMENT FIXATION) (RICKETTSIAL DISEASES) (VIRUS RESEARCH)

ANDREYEV, V.A.

Using the TS-3 theodolite for optical orientation. Gor. zhur. no.2: 66-68 F '58. (MIRA 11:3)
(Theodolites) (Mine surveying)

30(1)

AUTHOR: Andreyev, V.A., Engineer

TITLE: Preferable Types of Gates for Automatically and Remotely Controlled Irrigation Systems Structures

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 8, pp 22-29 (USSR)

ABSTRACT: A basic improvement of the irrigation system is necessary in order to meet the requirements of the 21st Party Congress and to produce 5.7 to 6.1 million tons of cotton. The available systems and pipelines are not able to secure the right water distribution or proper utilization. The chief of the project can only be reached by telephone and water regulation is carried out manually. Up to the last moment this technique was also planned for new projects. The loss of water is not only caused by filtering, but also by the bad control system and the inefficient organization. The losses can be eliminated by automation and remotely controlled systems but still Government regulations and design solutions are missing. After explaining the importance of remotely controlled systems and of automation for large irrigation

ANDREYEV, V.A., gornyy inzh.

New developments in hole boring. Ugol' Ukr. 4 no.4: 34-35 Ap '60. (MIRA 13:8)
(Boring machinery)

ANDREYEV, V.

Soviet exports of oil well drilling and prospecting equipment.
Vnesh. torg. 41 no.10:28-31 '61. (MIRA 14:9)

1. Zamestitel' predsedatelya Vsesoyuznogo ob"yedineniya "Mashino-eksport".

(Oil well drilling rigs)

ANDREYEV, V.A.

Transfer of conical lids to die stamping. Kuz.-shtam. proizv. 4 no.3:45 Mr '62. (MIRA 15:3)
(Sheet-metal work)

CHERNYSHEV, Aleksandr Vasil'yevich; YAKHIN, Abram Borisovich [deceased]; GRIGOR'YEV, B.V., kand.tekhn.nauk, retsenzent; ANDREYEV, V.A., kand.tekhn.nauk, red.; YELISEYEV, M.S., red.izd-va; CHERNOVA, Z.I., tekhn.red.

[Introduction of automatic programmed control of operations on metal-cutting machines] Avtomatizatsiia obrabotki na metallorezhushchikh stankakh s primeneniem programmnogo upravleniia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 194 p. (MIRA 12:11)

(Metal cutting) (Machine tools--Numerical control) (Automatic control)

AHDREYEV, V.A.; KOLODIEVICH, D.P. [deceased]; ROZENBLAT, V.F.; CHIZH, I.B.

New technique of operating the South Golodnaya-Steppe Canal. Mat. po proizv. sil. Uzb. no.15:326-331 '60. (MIRA 14:8)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut irrigatsii, Tashkent, i Institut "Sredazgiprovodkhlopok".
(South Golodnaya-Steppe Canal)
(Remote control)

ANDREYEV, V., inzh.

Tower headframes abroad. Prom.stroi.i inzh.soor. 4 no.1:61-63 Ja-F '62. (MIRA 15:8)
(Mine buildings) (Precast concrete construction)

ANDREYEV, V., inzh.

Improving preparatory operations in mine construction.
Prom. stroi. i inzh. soor. 4 no.3:36-40 My-Je '62. (MIRA 15:7)
(Mining engineering)

ANDREYEV, V.

Uranium ore mining industry of the U.S.A.. Atom.energ. 9 no.4: 337-338 O '60. (MIRA 13:9)
(United States--Uranium ores)

ANDREYEV, V.

Toward new success in ferrous metallurgy. Stal' 21 no. 1:1-4 Ja '61. (MIRA 14:1)
(Steel--Metallurgy)

ANDREYEV, V., inzh.

Expediency of building towers for sinking vertical shafts. Prom.-stroi. i inzh.soor. 3 no.2:37-38 Mr-Ap '61. (MIRA 15:3)
(Mining engineering)

ANDREYEV, V.

Small diameter tube rolling. Mor.flot 15 no.5:31 My '55.
(Rolling(Metal work) (MLRA 8:6)

ANDREYEV, V.A.

Mechanical cleaning of mine cars with RP-17 bore hammers. Ugol' Ukr. 7 no.11:45 N '63. (MIRA 17:4)

ANDREYEV, V.A. (Kadiyevka)

Mechanized cleaning of mine cars. Ugol' 38 no.1:37-38 Ja '63.
(MIRA 16:3)

MATEVOSYAN, P.A., inzh.; SELIVANOV, V.M., inzh.; PETROV, B.S., inzh.; ANDREYEV, V.A., inzh.; TARASHCHENKO, P.Ya., inzh.

Preventive measures against cracks in Kh25T steel ingots.
Stal' 25 no.10:913-914 O '65. (MIRA 18:11)

ANDREYEV, V.A.

Filtration cartridge. Lab. delo no.8:506 '65.
(MIRA 18:9)

1. Glavnyy voyennyy gospital' imeni Burdenko, Moskva.

L 1942-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) MJW/JD/HW
ACCESSION NR: AP5025133 UR/0133/65/000/010/0913/0914
669.187.2

AUTHOR: Matevosyan, P. A. (Engineer); Selivanov, V. M. (Engineer); Petrov, B. S. (Engineer); Andreyev, V. A. (Engineer); Tarashchenko, P. Ya. (Engineer)

TITLE: Ways of combating cracks in Kh25T steel slabs

SOURCE: Stal', no. 10, 1965, 913-914

TOPIC TAGS: Kh25T steel, metal surface, annealing, metal rolling

ABSTRACT: Cracks and fractures in Kh25T steel slabs are caused by internal strain arising during the cooling of slabs after blooming. Changing of the methods of melting of this steel in open arc furnaces does not have any substantial effect on the elimination of this defect. The use of sheet ingots is also ineffective. Rolling of the slabs on a sheet mill in the hot state immediately after blooming or after a special heat treatment (annealing) eliminates the cracks, but cannot be recommended because of the poor quality of the surface of the sheets obtained. A complete prevention of the defect (for any chemical composition within the standard requirements and with the allowed content of nonmetallic inclusions) is achieved by annealing the slabs and preheating them before they are placed in the holding

Card 1/2

ALPATKIN, Mikhail Tikhonovich, inzh.; LODIN, V.Z., kand. tekhn. nauk, nauchn. red.; ANDREYEV, V.A., inzh., nauchn. red.

[Mechanization of earthwork in perennially frozen ground] Mekhanizatsiia zemlianykh rabot v usloviiakh mnogoletnei merzloty. Moskva, Stroiizdat, 1965. 131 p. (MIRA 18:4)

S/169/62/000/005/030/093
D228/D307

AUTHORS: Stepanov, V. P., Yevgrafov, K. S. and Andreyev, V. B.

TITLE: Some results of ground magnetometer operations on the territory of Tatariya

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 32, abstract 5A254 (Geol. nefti i gaza, no. 11, 1961,56-59)

TEXT: The results of magnetometer investigations in south- and north-easterly districts of the Tatar ASSR and in adjoining regions are described. The aim was to detail previously exposed anomalies, to interpret them geologically, and to zone them tectonically. A map of the crystalline basement's relief was constructed as a result of both quantitative calculations by the simplest methods and the consideration of drilling data. [Abstracter's note: Complete translation.]

Card 1/1

SAMARSKIY, A.A. (Moskva); ANDREYEV, V.B.

A difference scheme of a higher order of accuracy for an elliptic equation in several space variables. Zhur. vych. mat i mat fiz. 3 no.6:1006-1013 N-D 63. (MIRA 17:1)

ANDREYEV, V.B., inzh.; SAKHAROV, I.Ye., kand.fiziko-matematicheskikh nauk

Elasticity modulus of a stator segment pack. Vest.elektroprom. 33 no.1:42-44 Ja '62. (MIRA 14:12)

(Elasticity)
(Steel--Testing)

ANDREYEV, V.B., master po kapital'nym rabotam

Correct track maintenance on bridges. Put' i put.khoz. no.7:32-33 '62. (MIRA 15:7)

1. Stantsiya Orenburg I, Kuybyshevskoy dorogi.
(Railroad bridges--Maintenance and repair)

L 12738-63 BDS/EWT(d)/FCC(w) AFFTC IJP(C)

S/208/63/003/002/011/014 52

AUTHOR: Abramov, A. A. and Andreyev, V. B. (Moscow)

TITLE: The application of the "follow up" method 16 for the calculation of periodic solutions of differential and difference equations

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 3, no. 2, 1963, 377-381

TEXT: The authors formulated two approaches yielding the answer to the problem suggested by A. A. Samarskiy: how to apply the "follow-up" method for the calculation of the periodic solution of linear differential or difference equations (or a system of such equations). Such a problem occurs, e.g., during the approximate solution of partial differential equations in cylindrical coordinates.

SUBMITTED: November 23, 1962

Card 1/1

L 18998-65 EWT(d) Pg-4 IJP(c)/ASD(a)-5/AEDC(a)/ESD(dp)

ACCESSION NR: AP5001473 B/0208/64/004/006/1025/1036

AUTHORS: Samarskiy, A. A. (Moscow); Andreyev, V. B. (Moscow) B

TITLE: Iteration schemes of variable directions for numerical solution of the Dirichlet problem

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 4, no. 6, 1964, 1025-1036

TOPIC TAGS: maximum principle, Dirichlet problem, Poisson equation, approximation calculation

ABSTRACT: The authors prove convergence in mean of fourth-order difference schemes with rate $O(|h|^4)$ where

$$|h|^2 = \sum_{\alpha=1}^{p} h_\alpha^2, \qquad (1)$$

with any ratio h_α between steps. They study such a scheme on a rectangular grid ($h_\alpha \neq h_\beta$ for $\alpha \neq \beta$) for the Poisson equation and in a p-dimensional rectangular parallelepiped ($p = 2,3$) for the Dirichlet problem. Conditions are given under which the maximum principle can be used for these schemes on a rectangular grid.

Card 1/2

L 65076-65 EWT(d) IJP(c)

ACCESSION NR: AP5020291 UR/0208/65/005/004/0626/0637

518:517.944/.947

AUTHOR: Andreyev, V. B. (Moscow)

TITLE: Iteration schemes of variable directions for numerical solution of the third boundary value problem in a p-dimensional parallelepiped

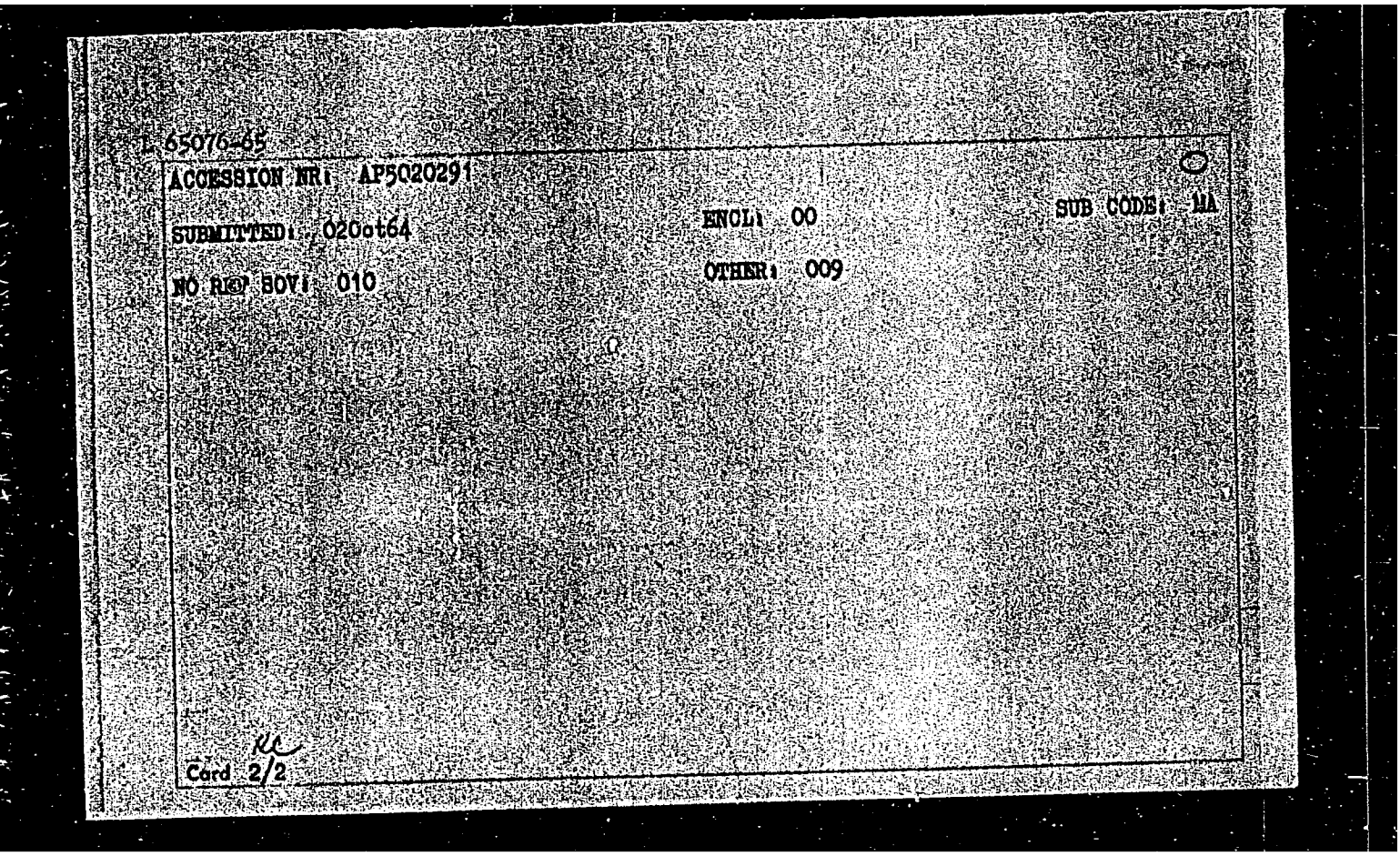
SOURCE: Zhurnal vychislitel'noy matematki i matematicheskoy fiziki, v. 5, no. 4, 1965, 626-637

TOPIC TAGS: partial differential equation, approximation calculation

ABSTRACT: The author treats the numerical solution of a self adjoint elliptic equation in a p-dimensional parallelepiped. He first gives an approximating difference scheme approximating boundary conditions of the third type for which he constructs a variable direction iteration process. He then give two theorems which show that under certain conditions his scheme converges at the rate of $O(|h|^2)$. "In conclusion I wish to thank A. A. Samarskiy for his discussions of the results, his valuable advice, and constant attention to my work and Ye. G. D'yakonov for many remarks in the editing of the article." Orig. art. has: 30 formulas and 1 figure.

ASSOCIATION: none

Card 1/2



L 65076-65

ACCESSION NR: AP5020291

SUBMITTED: 020ct64 ENCL: 00 SUB CODE: MA

NO REF SOV: 010 OTHER: 009

Card 2/2

ANDREYEV, V.B. (Moskva)

Iterative schemes of alternating directions for the numerical solution of the third boundary value problem in a p-dimensional parallelepiped. Zhur. vych. mat. i mat. fiz. 5 no.4:626-637 Jl-Ag '65. (MIRA 18:8)

ANDREYEV, V. D.

Uranium industries of capitalist countries in 1963. Atom. energ. 17 no.1:75-78 Jl '64. (MIRA 17:7)

ANDRUSEV, V.D.; TAUBMAN, E.I., red.; [illegible], M.N., red.

[Rare-metal industry of capitalist countries in 1962] Promyshlennost' redkikh metallov kapitalisticheskikh stran v 1962 g. Moskva, 1963. 54 p. (MIRA 17:10)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallurgii.

L 43644-66 EWT(d) IJP(c)

ACC NR: AP6011356 SOURCE CODE: UR/0208/66/006/002/0238/0250

25
24
B

AUTHOR: Andreyev, V. B. (Moscow)

ORG: none

TITLE: On the uniform convergence of several difference schemes

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 2, 1966, 238-250

TOPIC TAGS: elliptic differential equation, Dirichlet problem, numerical method, Poisson equation, heat equation, parabolic equation

ABSTRACT: Uniform estimates for the speed of convergence of several difference schemes, for which the principle of the maximum is not established, are presented. The methods considered are: 1) those of increased order of accuracy on a rectangular net for the Poisson equation in the case of two and three variables; 2) those of increased order of accuracy with a decomposed operator for the heat equation with constant coefficients; and 3) schemes with a decomposed operator for the parabolic equation with variable coefficients. The method of energy inequalities is used to obtain solution estimates in the norm of the space $\overset{\circ}{W}_2^{(2)}$. The uniform convergence follows from the *a priori* estimates on the basis of the difference analogue, which is proved, of an

UDC: 518:517.944/.947

Card 1/2

ANDREYEV, V. D.

W E.

Valves and Thermionics

621.385.38 : 537.315 2874

The Distribution of the Electric Field in a Three-Electrode Gas-Discharge Tube with a Large Back Voltage. V. D. Andreev, I. I. Levina & B. G. Mendeleev. (Zh. Tekh. Fiz., Feb. 1951, Vol. 21, No. 2, pp. 149-154.) The potential distribution in the plasma between the anode and grid of a Hg-vapour tube during the reverse half cycle was investigated by taking oscillograms of probe currents. On the basis of the results obtained the division of the voltage between the electrodes is discussed.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ANDREYEV, V. D.

6778. Topchibashev, T. A. i Andreyev, V. D.
Sortovoye rayonirovaniyei kharakteristika sortov zernovykh, maslichnykh kul'tur i trav v Azerbaydzhane. Baku, Azerneshr, 1954. 88 s. s. ill. 20 sm. 3.000 ekz. 1 r. 10 k. -- Na azerbayzh. yaz.--(55-2514)
633; 631.52 (47.924)

SO: Knizhnaya Letopis' No. 6, 1955

ANDREYEV, V.D. (Moskva)

One case of weak oscillations of a physical pendulum with a moving fulcrum. Prikl.mat. i mekh. 22 no.6:730-737 N-D '58. (MIRA 11:12)

(Pendulum)

SOV/110-59-1-3/28

AUTHOR: Andreyev, V.D. (Candidate of Physical and Mathematical Sciences)

TITLE: A High-voltage Thyratron with Little Sectionalisation (Malosektsionirovannyy vysokovol'tnyy tiratron)

PERIODICAL: Vestnik Elektropromyshlennosti, 1959, Nr 1, pp 9-11 (USSR)

ABSTRACT: The maximum voltages that can be applied to thyratrons are 15 - 20 kV. High voltage gasotrons have been made for maximum inverse voltages of 150 kV and more by sectionalising the system and using devices to assure a uniform distribution of anode voltage between the sections during the non-conducting part of the cycle. External capacitance voltage dividers are often used. V.L. Granovskiy (Ref 4) has shown that the voltage distribution between sections during the non-conducting part of the cycle is not the same as in a vacuum because of ionised vapour remaining at the beginning of the reverse half-cycle. The amount of distortion is proportional to the rate of fall of current at the end of the conducting part of the cycle, and also to the capacitance between the neighbouring electrodes. In practice, the principle of sectionalisation for very high voltages is only justified if the current and inverse

Card 1/3

A High-voltage Thyratron with Little Sectionalisation

voltage change smoothly and the process of de-ionisation is completed before the voltage rises to an appreciable value. These conditions are observed, for example, in single half-wave rectifier circuits. When the rate of change of current is great and the inverse voltage increases quickly, as in a bridge circuit, anode sectionalisation should be avoided. It is shown that under these conditions the use of intermediate electrodes cannot appreciably reduce the field intensity at the anode or influence the probability of backfiring even when the voltage is uniformly divided between the electrodes. In practice it was found that the building of unsectionalised medium-voltage rectifiers was justified only after preventing the possibility of formation of cathode spots in the space beyond the anode. Breakdown over long paths from the rear parts of the anode to the cathode also had to be prevented. Special screens were most effective in preventing such breakdown. A photograph of a high-voltage thyratron constructed with these factors in mind is given in Fig 1. An additional electrode is introduced between the anode and the grid. A number of samples of

SOV/110-59-1-3/28

A High-voltage Thyratron with Little Sectionalisation

high-voltage thyratrons were made and tested under various conditions. The type shown in Fig 1 was given a rated inverse voltage of 65 kV with a mean rated current of 3 A, and tested in a three-phase power circuit on an inductive-resistive load. The test circuit is shown in Fig 2 and oscillograms of the thyratron conditions are reproduced in Fig 3. The tests show a maximum anode voltage of 71 kV; the mean current in the valve was 3.7 A continuous and 9.7 A short time (2 - 3 secs). The thyratron also behaved satisfactorily with grid control. Test results when operating with periodic current impulses at a frequency of 1 - 2 secs are also given. The principal dimensions and characteristics of the thyratron are given. Thyratrons of this type may find application in high-voltage power rectifier installations with voltage control and currents of several amperes. There are 3 figures and 5 Soviet references.

SUBMITTED: September 10, 1958

Card 3/3

MASLENNIKOV, N.M.; SAKOVICH, A.A.; ANDREYEV, V.D.

Firing of a sectionalized high-voltage rectifier.
Elektrichestvo no.6:25-29 Je '60. (MIRA 13:7)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina.
(Electric current rectifiers)

ANDREYEV, V.D.

Developments in the beryllium industry in capitalist countries; review of foreign publications. TSvet.met. 33 no.5:93-94 My '60. (MIRA 13:7)
(Beryllium)

ANDREYEV, V.D.

Uranium industry in capitalist countries; survey of present-day conditions. Atom. energ. 11 no.1:72-79 Jl '61. (MIRA 14:7)
(Uranium ores)

ANDREYEV, V.D.

The uranium industry of capitalist countries in 1961. Atom. energ. 13 no.3:293-299 S '62. (MIRA 15:9)
(Uranium industry)

ANDREYEV, V.D., kand.fiziko-matematicheskikh nauk; MESHCHERYAKOV, B.M., inzh.; TYULINA, V.A., inzh.

Spontaneous extinction of a d.c. arc in a vacuum-type cutout. Vest. elektroprom. 33 no.7:43-45 Jl '62. (MIRA 15:11)
(Electric cutouts)

ANDREYEV, V.D., kand.fiz.-matem.nauk; TYULINA, M.A., inzh.

Use of a vacuum switch for switching d.c. in a condenser circuit. Vest. elektroprom. 33 no.9:40-44 S '62. (MIRA 15:10)
(Electric switchgear) (Electric networks)

ACCESSION NR: AT4010226 S/3056/63/000/000/0064/0070

AUTHOR: Klinov, F. Ya.; Andreyev, V. D.

TITLE: Measurement of temperature in the lower 300 meter layer of the atmosphere from a high meteorological tower

SOURCE: Issledovaniye nizhnego 300-metrovogo sloya atmosfery*. Moscow, 1963, 64-70

TOPIC TAGS: meteorology, lower atmosphere, atmospheric temperature, temperature measurement, atmospheric temperature measurement, temperature profile, air temperature altitude dependence, thermogradientograph

ABSTRACT: The structure and operating characteristics of a new thermogradientograph developed on the basis of the remote-controlled, automatic instrument at the Leningradskiy gidrometeorologicheskiy institut (Leningrad Hydrometeorological Institute) are described in detail, with a block diagram illustrating its use to determine the temperatures at various levels of a high meteorological tower. The apparatus consists of transmitters with the operating arms of measuring bridges, a network of relays and a multichannel recorder; the bridges which serve as the sensory elements of the transmitters consist of one copper resistor and 3 manganin resistors. Several temperature profiles obtained with this apparatus

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ACCESSION NR: AT4010226

and a graph relating temperature and time at various altitudes are presented. The results show that the instrument may be used within a temperature range of -40 to +40C. "V. S. Storozhko, B. P. Zotov, L. Ye. Lobova and others took part in the development and perfection of the thermogradientograph." Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 20Feb64 ENCL: 00

SUB CODE: AS, SD NO REF SOV: 007 OTHER: 000

Card 2/2

ANDREYEV, V.D. (Moskva)

Passage of a useful signal and background noise signal through radial-slot obturators of systems for indicating glowing objects. Izv. AN SSSR. otd. tekh. nauk. tekh. kib. no.3:56-66 My-Je '63. (MIRA 16:7)

(Automatic control)

ANDREYEV, V.D. (Moskva)

Determination of optimum parameters of radially-slotted shutters in display systems of luminous objects. Izv. AN SSSR. Tekh. kib. no.4:184-195 Jl-Ag '63. (MIRA 16:11)

ANDREYEV, V.D.

Uranium industry in capitalist countries in 1962. Atom. energ. 15 no.1:88-91 Jl '63. (MIRA 16:8)
(Uranium industry)

ANDREYEV, V.D. (Moskva)

Errors of inertial navigation systems. Izv. AN SSSR Tekh. kib. no.2:159-174 Mr-Ap'64. (MIRA 17:5)

ANDREYEV, V.D. (Moskva)

Theory of inertial systems for autonomous determination of the coordinates of a moving object. Prikl. mat. i mekh. 28 no.1: 39-50 Ja-F'64. (MIRA 17:2)

ACCESSION NR: AP4027584 S/0040/64/028/002/0242/0257

AUTHOR: Andreyev, V. D. (Moscow)

TITLE: General equations of inertial navigation

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 2, 1964, 242-257

TOPIC TAGS: inertial navigation, motion equation, stability, navigation equation, newton meter, angular velocity measurement

ABSTRACT: The equations of motion for a body moving with respect to an inertial system are developed. Measurements are made by three newton-meters and three devices for measuring absolute angular velocities. Equations are constructed for ideal performance in a non-central gravitational field of the earth. Then equations are introduced which describe the possible performance by taking into account instrumental errors. Properties of the error equations are discussed for a generalized navigational scheme. It is shown that error equations obtained for particular navigational schemes in earlier works may be derived as special cases. Finally, stability of the motion of the system is investigated. "The author thanks A. Yu. Ishlinskiy for his supervision." Orig. art. has: 77 equations and 1 figure.

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ACCESSION NR: AP4027584

ASSOCIATION: none

SUBMITTED: 02Feb63 DATE ACQ: 28Apr64 ENCL: 00

SUB CODE: AS NO REF SOV: 015 OTHER: 001

Card 2/2

ACCESSION NR: AP4028988 S/0280/64/000/002/0159/0174

AUTHOR: Andreyev, V. D. (Moscow)

TITLE: Errors in inertial navigation systems

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1964, 159-174

TOPIC TAGS: navigation, inertial navigation system, inertial navigation error, inertial navigation theory

ABSTRACT: An inertial navigation system usually operates under disturbance conditions which are characterized by its structure, object-motion parameters, errors in the initial conditions, and instrumental errors of the components; the latter errors may be either specific or random functions of time. By analyzing the differential equations of the disturbed operation of an inertial system (the "error equations"), the stability and accuracy of the system can be determined. In the general case, the error equations (developed by the author in "Prikl.

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ACCESSION NR: AP4028988

matem. i mekh.," 1964, 28, no. 1) are high-order differential equations with variable coefficients; their analysis is very difficult. However, in these particular practical cases (treated in the article), they can be reduced to equations with constant coefficients: (1) The base is stationary in the system of coordinates $O'\xi_0\eta_0\zeta_0$, which is permanently oriented with respect to remote stars; (2) The constant-speed motion along a parallel, with no newtonometer along the Oz_0-axis and the trihedron $Ox_0y_0z_0$ oriented on the continents (Oy_0-axis is directed toward the North). Orig. art. has: 1 figure and 60 formulas.

ASSOCIATION: none

SUBMITTED: 22May63 DATE ACQ: 30Apr64 ENCL: 00

SUB CODE: MG NO REF SOV: 009 OTHER: 000

Card 2/2

ANDREYEV, V.D. (Moskva)

Method for navigation using a gyrocompass and a doppler velocity meter. Izv. AN SSSR. Tekh. kib. no.6:101-110 N-D '63.
(MIRA 17:4)

ANDREYEV, V.D.; DEVYANIN, Ye.A.; DEM'YANOVSKIY, A.P.; NOVOZHILOV, I.V.; PARUSNIKOV, N.A.

Concerning V.P. Seleznev's book "Navigation system."
Izv. AN SSSR Tekh. kib. no.2:184-187 Mr-Ap'64.
(MIRA 17:5)

L 9096-65 EEO-2/EWT(d)/EEC-4 Pn-4/Po-4/Pq-4/Pg-4/Pk-4/P1-4 ESD(dp)/ESD/
APMDC/APTC(a)/ASD(a)-5/ASD(d) BC
ACCESSION NR: AP4041970 S/0280/64/000/003/0170/0173

AUTHOR: Andreyev, V.D. (Moscow) B

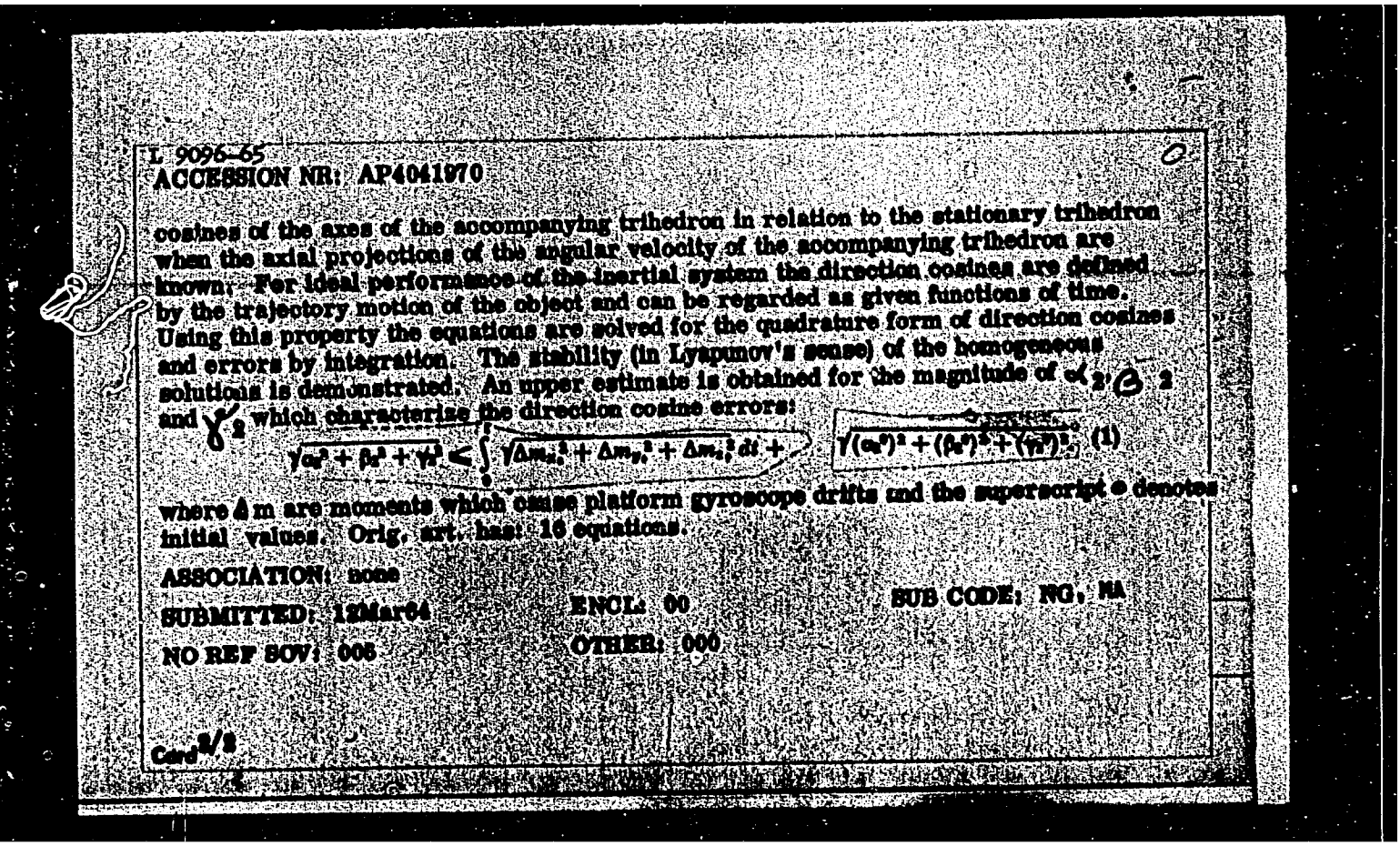
TITLE: The second group of errors in inertial navigation systems

SOURCE: AN SSSR. Izv. Tekhnicheskaya kibernetika, no. 3, 1964, 170-173

TOPIC TAGS: inertial navigation system, navigation system, navigation system error, gyro platform

ABSTRACT: In his previous paper (Prikl. matem. i mekhan., 1964, vol. 28, No. 1), the author derived two groups of differential equations with variable coefficients for errors in an inertial navigation system. The first group of equations allows the determination of gyro platform angles with respect to the three axes of the accompanying trihedron whose apex is at the center of gravity of the moving object and whose z - axis runs toward the center of the earth, as well as of the error δR in the distance from the object to the center of the earth. These quantities are dependent upon the initial values of errors in range, angular velocity and moments and upon the time variation of the instrument errors. The equations are practically impossible to solve, even if constant coefficients are used. The second group of 3 equations is of the Poisson type and determines the theoretical direction

Card 1/2



L 9096-65
ACCESSION NR: AP4041970

cosines of the axes of the accompanying trihedron in relation to the stationary trihedron when the axial projections of the angular velocity of the accompanying trihedron are known. For ideal performance of the inertial system the direction cosines are defined by the trajectory motion of the object and can be regarded as given functions of time. Using this property the equations are solved for the quadrature form of direction cosines and errors by integration. The stability (in Lyapunov's sense) of the homogeneous solutions is demonstrated. An upper estimate is obtained for the magnitude of α_2, β_2 and γ_2 which characterize the direction cosine errors:

$$\sqrt{\alpha_2^2+\beta_2^2+\gamma_2^2} \leq \int \sqrt{\Delta m_{x_1}^2+\Delta m_{y_1}^2+\Delta m_{z_1}^2}\,dt + \sqrt{(\alpha_2^0)^2+(\beta_2^0)^2+(\gamma_2^0)^2}, \quad (1)$$

where Δm are moments which cause platform gyroscope drifts and the superscript 0 denotes initial values. Orig. art. has: 10 equations.

ASSOCIATION: none

SUBMITTED: 12Mar64 ENCL: 00 SUB CODE: NG, MA

NO REF SOV: 006 OTHER: 000

Card 2/2

L 41654-65 EEC-4/EEO-2/EWT(d) Pq-4/Pz-4/Pl-4/Pn-4/Po-4/Pq-4 BC
ACCESSION NR: AP4013979 S/0040/64/028/001/0039/0050
41
39
AUTHOR: Andreyev, V. D. (Moscow) B

TITLE: Theory of inertial systems for autonomous determination of coordinates of a moving object 9

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 1, 1964, 39-50

TOPIC TAGS: inertial system, autonomous coordinate determination, small oscillation, instrumental error, error equation

ABSTRACT: The author derives equations for autonomous determination of the coordinates of the center of gravity, as well as the orientation in the horizon plane and in the azimuth of a moving object. The scheme is analogous to that presented by A. Yu. Ishlinskiy (Ob uravneniyakh zadachi opredeleniya mestopolozheniya ob"ekta posredstvom giroskopov i izmeriteley uskoreniy. PMM, 1957, t. XXI, vyp. 6). These equations generalize those which arise from other studies cited in the paper. He first derives a closed system of equations describing unperturbed behavior of an inertial orientator, neglecting the non-centrality of the earth's gravitational field. He then shows how one may take into account the non-centrality. Next follows a discussion of errors in the

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