"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, N.M., dotsent, kandidat tekhnicheskikh nauk.

Possibilities for simplifying the design of swing-axle independent wheel suspensions used on automobiles. Nauch.trudy MPI 30(44): 210-217 '55. (MLRA 9:11)
(Automobiles--Design and construction)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

KOZIN, G.N., inzh.; KOLGANOV, G.S., inzh.; TARAPUROV, N.P., inzh.; SAVIN, N.M., inzh.

Rapid method for the fritting of a 600-ton open-hearth furnace. Met.i gornorud.prom. no.5:76-78 S-O '62. (MIRA 16:1)
(Open-hearth furnaces--Maintenance and repair)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

YEGOROV, Aleksandr Danilovich; SAVIN, Nikolay Sergeyevich; MASANOV, N.F., nauchnyy red.; SHUMILOVA, Ye.M., red.; NESMYSLOVA, L.M., tekhn. red.

[Driver of industrial electric and motortrucks] Voditel' elektrotelezhek i avtotelezhek. Moskva, Proftekhizdat, 1963. 210 p. (MIRA 16:5)
(Industrial power trucks)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

4

L 3835-66 ARG/EWT(d)/FBD/FBO/EWT(m)/EWP(w)/EPF(c)/FA/EWP(c)/EWP(v)/T-2/EWP(k)/LWP(h)/FCS(k)/EWA(h)/ETC(m) WW/EM/WE

AM5025577 BOOK EXPLOITATION UR/ 355.9 A49 104 100 B+1

Aleshkov, M. N. (Candidate of Technical Sciences, Engineer-Colonel); Vyskubov, B. R. (Engineer-Colonel); Zhukov, I. I. (Professor, Doctor of Technical Sciences, General Major of the I.T.S.); Katkhanov, M. N. (Doctor of Technical Sciences, Docent Engineer-Colonel); Kukushkin, D. D. (Candidate of Technical Sciences, Colonel); Markov, O. P. (Docent, Candidate of Technical Sciences, Engineer-Lieutenant Colonel); Savin, N. V. (Engineer-Colonel); Smirnov, A. D. (Engineer-Colonel); Fomin, YU. G. (Candidate of Technical Sciences, Engineer-Colonel)

Physical principles of rocket weapons. (Fizicheskiye osnovy raketnogo orushiya) Moscow, Voyenizdat M-va obor. SSSR, 1965. 463 p. illus., biblio. 12,000 copies printed.

TOPIC TAGS: rocket, rocket flight, weapon, projected ammunition, jet engine, rocket propellant, combustion chamber, engine fuel system, rocket guidance, missile ground equipment, rocket engine test, jet propulsion

PURPOSE AND COVERAGE: The book presents the principles of the theory of flight, the physical principles of jet propulsion, describes rocket engines and fuels,

Card 1/3

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L 3835-66
AM5025577

Ch. IX. Ground equipment of various purpose rocket complexes — 385
Ch. X. Rocket and rocket complex tests — 407
Ch. XI. Rocket combat units — 427

Bibliography — 459

SUB CODE: GM, WA

SUBMITTED: 30Mar65

NO REF SOV: 035

OTHER: 042

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ACCESSION NR: AP4026841

algorithm permits (a) an improvement in the performance index for both steady-state variations about the optimum point and the optimum-characteristic drift and (b) an enlargement of the stable operation range. Orig. art. has: 6 figures and 27 formulas.

ASSOCIATION: none

SUBMITTED: 15Jul63 DATE ACQ: 17Apr64 ENCL: 00

SUB CODE: DP, IE NO REF SOV: 009 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ACC NR: AR6035231

value $\theta$ (current value of EV) are coupled by the differential equation

$$a_n \frac{d^n\theta}{dt^n} + \ldots + a_1 \frac{d\theta}{dt} + \theta = k_{ey};$$

3) a pickup unit for measuring the current value of EV; and 4) a step-type extremal regulator. To decrease the influence of linear element inertia, a static value of EV is introduced in the logic element of the extremal regulator, i.e., a regulation law is constructed in the form

$$\Delta x_{n+1} = \alpha \operatorname{sign} \Delta y_n \operatorname{sign} \Delta x_n,$$

where $\Delta y_n$ is the increment of the value of EV. For the case when transients in the linear part of the object of regulation and in the pickup unit are described by differential equations of the first order, an algorithm of the operation of the extremal regulator computer is derived. It is shown that the value of sign $\Delta y_n$ required for realizing the regulation law can be calculated on the basis of signal increments at the pickup output. A computer circuit which uses summing transformers with a phase-sensitive amplifier is described. To improve the noise immunity of the extremal regulation system, it is necessary to calculate the increment of EV on the basis of the increments of the signal from the pickup which

Card 2/3

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 52244-65 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v) Pf-4

ACCESSION NR: AP5011299 UR/0102/65/000/001/0026/0034 29 B

AUTHOR: Savin, O. R. (Sumi); Chertkov, Y. Ya. (Chertkov, I. Ya.) (Sumi)

TITLE: Determining the extremal-control index and the computer algorithm of an extremal controller used for inertial plant

SOURCE: Avtomatyka, no. 1, 1965, 26-34

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory 14

ABSTRACT: The problem formulated in the title is theoretically solved for a certain class of inertial plant, such as a steam boiler installation. An integral formula for the extremal-control index is derived on the basis of the dynamic characteristics of the linear part of the plant. A computer algorithm is developed for the step-type extremal controllers by considering the increment of the control index over an n-th cycle of control. A numerical example with the fuel-steam impulse response of the Sulzer boiler at the Dnepropetrovsk Metallurgical Plant is given. Orig. art. has: 4 figures and 39 formulas.

ASSOCIATION: none

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 52244-65

ACCESSION NR: AP5011299

SUBMITTED: 15Jul63 ENCL: 00 SUB CODE: IE, DP

NO REF SOV: 006 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ALESHKOV, M.N., st. nauchn. sotr., kand. tekhn. nauk, inzh.-polkovnik; ZHUKOV, I.I., prof., doktor tekhn. nauk, general-mayor; KATKHANOV, M.N., doktor tekhn. nauk, dots., inzh.-polkovnik; VYSKUBOV, B.R., inzh.-polkovnik; KUKUSHKIN, D.D., kand. tekhn. nauk, polkovnik; MARKOV, O.P., dots., kand. tekhn. nauk, inzh.-podpolkovnik; SAVIN, N.V., inzh.-polkovnik; SMIRNOV, A.D., inzh.-podpolkovnik; FOMIN, Yu.G., kand. tekhn. nauk, inzh.-polkovnik; KISELEV, S.P., inzh.-polkovnik, red.

[Physical principles of rocket weapons] Fizicheskie osnovy raketnogo oruzhiia. Moskva, Voenizdat, 1965. 463 p. (MIRA 18:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ZENKIN, V.I.; POSTOY, V.A.; POPOVA, Z.I.; SAVIN, O.R.

Optimalizing controller for inertial processes. Biul.tekh.-ekon. inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 18 no.1:36-37 Ja '65. (MIRA 18:4)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, P.

Socialist competition among related enterprises. Sov.profsoiuzy 16 no.17:12-14 S '60. (MIRA 13:8)

1. Predsedatel' fabkoma profsoyuza Glaukhovskogo khlopchatobumazhnogo kombinata imeni Lenia.
(Textile industry) (Socialist competition)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/123/60/000/010/003/011
A004/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 10, p. 77, # 49359

AUTHOR: Savin, P.I.

TITLE: The Manufacture of Standard Tools at Tool-Making Plants

PERIODICAL: V sb.: Konstruktsii rezhushchikh instrumentov i tekhnol. ikh izgotovleniya, No. 1, Moscow, 1958, pp. 5-11

TEXT: In order to supply the industry with the necessary quantity of standard tools, it is planned to construct a number of new tool-making plants, reequip and extend the existing plants by introducing advanced processes, organizing flow and automated production lines. Among the number of new technological methods, the following are mentioned: making teeth of cut-off saw segments, cutting-off milling cutters, slot and hobbing cutters and other kinds of tools by the generating method; producing file teeth with the aid of generating-turning operations; mechanized trimming of welded blanks for end tools etc. Large-scale development of automatic feeds for machine tools, automation of heat treatment and tool welding, and automation of sharpening

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/123/60/000/010/003/011
A004/A001

The Manufacture of Standard Tools at Tool-Making Plants

operations, are planned. Moreover, it is planned to equip machine tools with rapid-action clamping devices and hydrocopying slides, while, simultaneously, special machine tools are to be designed for tool manufacture.

M.I.V.

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

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SERGIYENKO, Vasiliy Anisimovich; SAVIN, Petr Ivanovich;
NURIDDINOV, M., red.

[Mechanization of vegetable and potato growing] Sabzavot va kartoshka etishtirish ishlarini mekhanizatsiialash. Toshkent, Uzdavnashr, 1963. 53 p. [In Uzbek]
(MIRA 17:9)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, P.M.

Compound treatment with strophanthin in combination with exercise therapy in cases of blood circulation insufficiency. Nauch.trudy L'vov.obl.terap.ob-va no.1:245-249 '61. (MIRA 16:5)

1. 2-ye terapevticheskoye otdeleniye L'vovskoy oblastnoy klinicheskoy bol'nitsy (zav. otdeleniyem - prof.S.F. Oleynik).
(BLOOD—CIRCULATION, DISORDERS OF) (EXERCISE THERAPY)
(STROPHANTHIN)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

YUDITSKIY, F., dotsent; SAVIN, S.; YEGOROV, P., starshiy prepodavatel'

Testing graphite rings in the main engine of the motorship "Marshal Govorov." Mor. flot 25 no.5:34-35 My '65. (MIRA 18:5)

1. Leningradskiy korablestroitel'nyy institut (for Yuditskiy).
2. Starshiy mekhanik teplokhoda "Marshal Govorov" (for Savin).
3. Leningradskoye vysshiye inzhenernoye morskoye uchilishche imeni admirala Makarova (for Yegorov).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Sil'viya; POPESKU, K.; RUSU, A.; TSOPA, Ye.

Correlation between cervical dysplasia and vaginal trichonomiasis; colposcopic and histopathological study. Akush. i gin. 38 no.3: 35-41 My-Je '62. (MIRA 15:6)

1. Iz 1-y akushersko-ginekologicheskoy kliniki (dir. - prof. Ye. Aburel), Bukharest.

(UTERUS--TUMORS) (TRICHOMONIASIS) (COLPOSCOPY)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, S.K.

Harmonic analysis of the periodic sequence of pulses. Radiotekhnika 20 no.7:9-14 Jl '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

KOVACEVIC, Miroslav; SAVIN, Stevan

Mitral stenosis in the aged. Srpski arh. celok. lek. 84 no.7-8:849-854 July-Aug 56.

1. I Interna klinika Medicinskog fakulteta u Beogradu. Upravnik: prof. dr. Branislav Stanojevic.
(MITRAL STENOSIS, in aged,
(Ser))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan; DIMITROV, Aleksandar; PAVLOVIC, Vera

Acetazolamide (diamox) in the treatment of congestive heart failure. Srpska arh. celok. lek. 85 no.9:1007-1010 Sept 57.

Interna klinika A Medicinskog fakulteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(ACETAZOLAMIDE, therapeutic use, congestive heart failure (Ser))
(CONGESTIVE HEART FAILURE, therapy, acetazolamide (Ser))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan; JOVIC, Miroljub

Diabetes and infectious hepatitis. Srpski arh. celok. lek. 87 no.1: 71-76 Jan 59.

1. Internal klinika A Medicinskog fakulteta u Beogradu Upravnik: prof. dr. Branislav Stanojevic.

(DIABETES MELLITUS, compl.
infect. hepatitis (Ser))
(HEPATITIS, INFECTIOUS, compl.
diabetes mellitus (Ser))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan

Disorders of water and electrolyte metabolism in liver diseases.
Srpski arh. celok. lek. 88 no.3:321-324 Mr '60.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr Branislav Stanojevic.

(LIVER DISEASES metab)
(WATER ELECTROLYTE BALANCE)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan; ANOJCIC, Bojana; ILIC, Milos

Clinical significance of urea clearance tests. Srpski arh. celok. lek. 88 no.5:573-578 My '60.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(KIDNEY FUNCTION TESTS)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan; ANOJCIC, Bojana; ILIC, Milos

Concentration capacity of the kidney under the influence of pituitrin. Srpski arh. celok. lek. 88 no.12:1229-1232 D '60.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(PITUITARY GLAND POSTERIOR hormones)
(KIDNEYS pharmacol)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan

The mechanism of urine concentration. Srpski arh. celok. lek. 89 no.2:213-219 F '61.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(KIDNEYS physiol)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan; ANOJCIC, Bojana; ILIC, Milos

Nephrotic syndrome. Certain considerations. Srpski arh. celok. lek. 89 no.3:319-327 Mr '61.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(NEPHROTIC SYNDROME)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stevan; MILOSAVLJEVIC, Aleksije

On a case of acute thyroiditis. Srpski arh. celok. lek. 89 no.11: 1345-1348 N '61.

1. Interna klinika A. Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Branislav Stanojevic Interno odeljenje za primenu radioaktivnih izotopa Onkoloskog instituta Upravnik: prof. dr Marija Visnjic-Frajnd.

(THYROIDITIS case reports)

S

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Steven

Relation of specific gravity to osmolarity of the urine. Srpski arh. celok. lek. 92 no.4:407-411 Ap '64

1. Interna klinika "A" Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr. Branislav Stanojevic).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

185T77

SAVIN, S. A.

USSR/Mathematics - Laplace's Equation May/Jun 51

"Concerning One Integral of the Two-dimensional Laplace Equation," S. A. Savin, Kharbin (Harbin) Polytech Inst

"Prik Matemat i Mekh" Vol XV, No 3, pp 392-393

Obtains for eq $V_{xx} + V_{yy} = 0$ the complete expression for its integral: $V(x,y) = F(x + iy) + C(x \cdot \cos\theta + y \cdot \sin\theta)^{\frac{1}{2}}$, where C and $\theta$ are arbitrary consts and $F(x + iy)$ and $F(x - iy)$ are arbitrary functions of the linear complex arguments. Submitted 17 May 50.

185T77

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

PA 193T56

SAVIN, S. A.

USSR/Mathematics - Laplacian Sep/Oct 51

"Formation of Integrals of Three-Dimensional Laplace Equation by Means of Function of Four-Term Arguments and Some Applications," S. A. Savin, Kharbin Polytech Inst

"Prik Matem i Mekh" Vol XV, No 5, pp 621-624

Savin presents the condition governing the independence of two 4-term arguments; general formula of Laplacian of function of 2 arguments; and some particular solns of Laplace's eq. Submitted 25 Sep 50.

193T56

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, S. A.

"Stress Formulas for a Rectangular Plate Fixed Along Four Edges, With the Stress Resulting From Uniform Load and With the Formulas Obtained by Means of the Theory of Elasticity," by S. A. Savin, Kharbin, Inzhenernyy Sbornik, Vol 23, 1956, pp 100-104

This work presents discussions of accepted determinations and formulas needed in engineering computations, general formulas of the moments of the forces of elasticity resulting from tangential stresses in the plate cross sections, stress formulas for the plate under study, and the determiniation of functions necessary for the computations. The article was submitted for publication in May 1954.



Sum 1219

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Stanislav Ivanovich; TARASOV, Georgiy L'vovich; DMITRIYEVA, L.A., red.; SILONOVA, G.N., tekhn. red.

[Beyond Lake Baikal] Za Baikalom. Moskva, Izd-vo "Sovetskaia Rossiia," 1963. 199 p. (MIRA 16-6)
(Transbaikalia--Mineral resources)
(Transbaikalia--Industries)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/106/63/000/004/006/008
A055/A126

AUTHOR: Savin, S.K.

TITLE: On the frequency conversion theory

PERIODICAL: Elektrosvyaz', no. 4, 1963, 39 - 44

TEXT: This is the description of a method of calculation of frequency converters operating with anode current cutoff, for the case, when the amplitudes of the heterodyning voltages are commensurable. If $i_a = f(u)$ is the static tube converter characteristic, the current in the tube circuit (neglecting the reverse conversion effect) is:

$$i_a = f(E_0 + u_1 + u_2), \quad (1)$$

where $E_0$ is the d-c grid voltage; $u_1 = U_{m1} \cos \omega_1 t$ and $u_2 = U_{m2} \cos \omega_2 t$ are the heterodyning voltages. Function (1) is usually expanded into a Taylor series. The author begins by showing that such an expansion is not permissible in operation with anode current cutoff. A direct expansion into a Fourier series being difficult, the author resorts (for the analysis of the converter op-

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2



eration) to the method of static modulation characteristics, used in the calculation of modulation and transmission systems by S.V. Person, A.I. Lebedev-Karmanov, V.A. Khatskelevich [Teoriya i raschet amplitudno-modulirovannykh lampovykh generatorov (Theory and calculation of A-M tube oscillators), Izd. "Sovetskoye Radio", 1955]. This method is applicable provided $\omega_1 \gg \omega_2$. Assuming that voltage $u_1 = U_{m1} \cos \omega_1 t$ is applied to the converter input, the author deduces the expressions giving the amplitude, respectively, of the first and n'th harmonic of the anode current versus the control-grid bias voltage: $I_{a1} = f_1(E)$; $I_{an} = f_n(E)$. For $I_{a1}$ he finally finds the expression:

$$\frac{I_{a1}}{SU_{m1}} = \frac{\theta - \sin\theta\cos\theta}{\pi} = \sum_{k=0}^{\infty} A_k \cos k\omega_2 t, \qquad (6)$$

$\theta$ being the angle of cutoff. The conversion transconductance corresponding to the frequencies $\omega_1 \pm k\omega_2$ is

$$S_{conv\,1k} = \frac{1}{2} S A_k. \qquad (7)$$

The author determines the coefficients $A_k$ (and, consequently, the conversion



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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2



transconductance) for different cases, according to the values of $E_0$, $U_{m1}$ and $U_{m2}$. For the second harmonic, he finds

$$\frac{I_{a2}}{SU_{m1}} = \frac{2}{3\pi}\left(\sqrt{1 - \left(\frac{E + E_c}{U_{m1}}\right)^2}\right)^3, \quad (8)$$

where $E_c$ is the tube cutoff voltage; this can also be written:

$$\frac{I_{a2}}{SU_{m1}} = \sum_{k=0}^{\infty} B_k \cos k\,\omega_2 t\,;$$

the conversion transconductance corresponding to the frequencies $2\omega_1 t \pm k\,\omega_2$ is

$$S_{conv\ 2k} = \frac{1}{2} S B_k\,. \quad (9)$$

Here also, the coefficients $B_k$ are determined for various cases, according to the values of $E_0$, $U_{m1}$, and $U_{m2}$. The conversion transconductance $S_{conv\ nk}$, corresponding to the frequencies $n\omega_1 \pm k\omega_2$ can be obtained in an analogous manner. There are 3 figures.

SUBMITTED: July 27, 1962



APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

AUTHOR: Savin, S. K. S/108/63/018/003/004/008 D201/D308

TITLE: Analysis of non-linear systems

PERIODICAL: Radiotekhnika, v. 18, no. 3, 1963, 23-29

TEXT: The author considers a method of determining the Fourier coefficients of the output function of an inertialess non-linear system, to the input of which is applied a cosine function of time. The non-linear system is approximated by a polynomial. Instead of harmonic analysis of the curve of the output function, the method utilizes the harmonic analysis of the curvature or even higher order derivatives. This makes it possible for the mathematical operations to be reduced to those on cosinusoidal or rectangular pulses since the derivative in which the variations one chooses correspond to a certain sequence of either cosinusoidal or rectangular pulses. The method described is expedient in cases when it is necessary to determine

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

Analysis of...

S/108/63/018/003/004/008
D201/D308

the amplitude of harmonics starting with the one which corresponds to the number of existing partial derivatives of the output function. Since the values of coefficients of rectangular pulse harmonics are known, the solution thus obtained has a form suitable for practical calculations. There is 1 figure.

SUBMITTED: June 20, 1961 (initially)
July 11, 1962 (after revision)

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ACCESSION NR: AP4014636 S/0106/64/000/001/0071/0073

AUTHOR: Savin, S. K.

TITLE: Calculating frequency converter with a strong input signal

SOURCE: Elektrosvyaz', no. 1, 1964, 71-73

TOPIC TAGS: frequency converter, converter, frequency converter design, frequency converter calculation, strong input signal frequency converter, anode current saturation frequency converter

ABSTRACT: In calculating the operation of frequency converters, it is usually assumed that the anode current never reaches its saturation value. In the present short article, the operation of the frequency converter in the region of anode-current-saturation is considered. Conversion characteristics are graphically represented, and a formula for the conversion transconductance is given. Also, formulas for the 1st-harmonic current and conversion trans-

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ACCESSION NR: AP4014636

conductance, for the case of 3 heterodyning voltages, are developed. Orig. art. has: 4 figures and 14 formulas.

ASSOCIATION: none

SUBMITTED: 26Apr63 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: GE NO REF SOV: 002 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.

Cart for transporting automobile engines. Avt. transp. 33 no.5:36 My '55. (MIRA 8:8)

1. Gor'kovskiy avtozavod im. Molotova.
(Automobiles--Repairing)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.

Radio amateurs of Soviet White Russia. Radio no. 11:13-14 N '60. (MIRA 14:1)

1. Predsedatel' respublikanskogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu BSSR.
(White Russia—Radio operators)
(White Russia—Radio clubs)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.

In step with life. Voen.znan. 37 no.4:16-17 Ap '61. (MIRA 14:4)

1. Predsedatel' respublikanskogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu BSSR.

(White Russia--Military education)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., mladshiy nauchnyy sotrudnik

Underwater sports. Vsen. znan. 34 no.8:35 Ag '58. (MIRA 11:12)

1.Kafedra fiziki morya i vod sushi Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(Diving, Submarine)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., mladshiy nauchnyy sotrudnik

Divers under Arctic ice. Voen. znan. 35 no.11:36 N '59. (MIRA 12:12)

(Arctic regions--Diving, Submarine)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

VOLOVOY, D.; SAVIN, V.

Analysis of the traffic capacity of wharves based on a comprehensives accounting of the interrelation between the merchant fleet and the ports. Rech. transp. 19 no. 6:18-20 Je '60. (MIRA 14:2)

(Wharves)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., inzh.

Optimum planning in the use of the fleet. Rech. transp. 19 no.11: 13-16 N '60. (MIRA 13:11)
(Inland water transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., inzh.

Designing better programs for the delivery of cargo for loading.
Rech.transp. 20 no.4:13-15 Ap '61. (MTRA 14:5)
(Cargo handling)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., inzh.

Determining an optimum program for building a fleet. Rech.transp. 20 no.6:20-21 Je '61. (MIRA 14:6)
(Ships) (Inland water transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/194/61/000/010/016/082
D222/D301

AUTHOR: Savin, V.

TITLE: On linear programming

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 7, abstract 10 B51 (Morsk. flot., 1961, no. 4, 3-6) - VOL. 21 -

TEXT: The procedure of solving problems of linear programming by the simplex method are examined. Its application is illustrated by the example of finding the best loading of ships with several kinds of cargo. The optimal plan of transportation determined by the calculation enables the profit to be increased by 12.8% compared with the usual plan. The possibility of extensive application of this method to problems of finding the optimal loading of ships with any number of denomination of cargo and with any number of restricting conditions is indicated. [Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SHAKHNAZAROV, A. (g. Baku); MESHCHERYAKOV, Yu. (g. Baku); SELIKHOV, S. (g. Baku); SAVIN, V. (g. Baku)

Device for measuring the thickness of nonmagnetic coatings. Radio no.10:47 O '61. (MIRA 14:10)
(Protective coatings--Measurement)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., inzh.

Basis for an optimum system of shipping lines and the most advantagous distribution of the fleet. Rech. transp. 21 no.2:13-15 F '62. (MIRA 15:3)

(Inland water transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., aspirant

Best distribution of the freight and passenger fleet to shipping lines. Mor. flot 22 no.6:5-8 Je '62. (MIRA 15:7)

1. Gor'kovskiy institut inzhenerov vodnogo transporta.
(Merchant marine)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

VOLOVOY, D., kand.tekhn.nauk; SAVIN, V., kand.tekhn.nauk

Optimum distribution of freightage among various forms of transportation. Rech. transp. 22 no.2:11-12 F '63. (MIRA 16:5)
(Transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V. Viorel (Timisoara)

Scientific and technical news: Cosmic rays; Water quantity on Mars; Cosmic space rockets. Gaz mat B 14 no.5:272-273 My '63.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.; SYURIN, Yu.

Transportation in the foreign trade of socialist countries. Vnesh. torg. 43 no.5:17-24 '63. (MIRA 16:6)

(Mutual Economic Assistance Council)
(Europe, Eastern—Commerce)
(Europe, Eastern—Transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V., kand. tekhn. nauk

Calculation of planned schedules using electronic computers. Rech. transp. 24 no.7:10-11 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

BUSTEA, Maria, dr.; DABIJA, Viorica, dr.; GHEORGHE, Ileana, dr.; IONESCU, E., dr.; IONESCU, Zenobia, dr.; LUNGU, Felicia, dr.; SALOMIN, Nadia, dr.; SAVIN, Valentina, dr.; STANESCU, I., dr.; STOICA, V., dr.; SERBAN, N., dr.; VISAN, Valeria, dr.

Our results in the treatment of complications of dental caries. Stomatologia (Bucur) 12 no.1:9-16 Ja-F'65.

1. Colectivul Serviciului de stomatologie al Spitalului unificat de adulti, Constanta.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.

Important nation-wide cause. Za rul. 20 no.4:5-6 Ap '62. (MIRA 15:5)

1. Predsedatel' respublikanskogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Belorussii.
(White Russia—Motor vehicles—Societies, etc.)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/063/60/005/005/017/021
A051/A029

AUTHORS: Golovanenko, B.I., Menyaylo, A.T., Savin, V.A.

TITLE: The Synthesis of Higher Olefines Controlled by the Polymerization of Ethylene

PERIODICAL: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D.I. Mendeleyeva, 1960, No. 5, Vol. 5, pp. 594-595

TEXT: Based on the known fact (Ref. 1) that in the interaction of ethylene and triethylaluminum, in addition to the growth in the chain, the molecule of ethylene displaces the corresponding olefine from the triethylaluminum molecule the authors have attempted to select the proper synthesis conditions, which would turn ethylene into the higher olefines $C_4$-$C_{30}$ of a normal structure in two stages. The latter could be used in the production of detergents and soaps or in the oxysynthesis process:

$$al - C_2H_5 + n(C_2H_4) \longrightarrow al - (CH_2)_{2n} - C_2H_5$$

$$al - (CH_2)_{2n} - C_2H_5 + C_2H_4 \longrightarrow$$

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/063/60/005/005/017/021
A051/A029

The Synthesis of Higher Olefines Controlled by the Polymerization of Ethylene

$\longrightarrow$ al - $C_2H_5$ + $CH_2$ = CH - $(CH_2)_{2n-2}$ - $C_2H_5$ , where al = $\frac{1}{3}$ Al. In the second stage the triethylaluminum is regenerated and can be used again. The experimental procedure was as follows: 23 g of triethylaluminum and dry hexane (137 g or 200 ml) were charged into an autoclave with a capacity of one liter. The hexane was saturated with dry ethylene at 20°C and 45 atm after which the contents of the autoclave were heated to 110°C for 6 hours until the pressure reached 15 atm. After the autoclave was cooled the reaction products were lifted out of it (260 g). The obtained higher aluminum alkyls were charged into another autoclave, into which a nickel acetylacetonate solution (100 mg) in dry hexane (100 g) was preliminarily introduced. Ethylene was fed into the autoclave at 20°C until saturation was reached at 25 atm and then this was heated to 110°C. The pressure first rose to 80 atm and then decreased to 60 atm. After this it remained constant for several hours. After the cooling a product was obtained (380 g). in the distillation from which the following olefines were extracted: n-octene (16 g), b.p. 120-123°C, $n_D^{20}$ = 1.4088, $d_4^{20}$ = 0.7188; the literature data (Ref. 2) are:

Card 2/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/063/60/005/005/017/021
A051/A029

The Synthesis of Higher Olefines Controlled by the Polymerization of Ethylene

$n^{20}_D$ = 1.4087, $d^{20}_4$ = 0.7149; bromine number: calculated 174, found 170; n--decene (19 g), b.p. 171-174°C; $n^{20}_D$ = 1.4300, $d^{20}_4$ = 0.7433; literature data (Ref 2) $n^{20}_D$ = 1.4215, $d^{20}_4$ = 0.7408; bromine number: calculated 114, found 112; n-dodecene (17 g), b.p. 92-95°C at 15 mm Hg; $n^{20}_D$ = 1.4362, $d^{20}_4$ = 0.7581; literature data (Ref. 2): $n^{20}_D$ = 1.4300; $d^{20}_4$ = 0.7584, bromine number: calculated 95.3, found 94. The residue after the distillation of the dodecene was carefully processed with n-butyl alcohol. 13.0 l of gas containing 92% ethane in the analysis was formed hereby, which corresponds to 18 g of triethylaluminum. In the second stage, therefore, about 80% of the triethylaluminum used in the reaction is regenerated. The authors state that the submitted results indicate that it is possible to obtain higher olefines from ethylene under the following conditions: temperature 110°C, pressure about 60 atm, the amount of nickel acetylacetonate 750 mg to 1 kg of aluminum alkyls. There are 2 references: 1 German, 1 English.

Card 3/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/063/60/005/005/017/021
A051/A029

The Synthesis of Higher Olefines Controlled by the Polymerization of Ethylene

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov (Scientific Research Institute for Synthetic Alcohols and Organic Products)

SUBMITTED: April 29, 1960

Card 4/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

KATS, V.I., doktor ekon. nauk; KIRICHENKO, V.N., kand. ekon. nauk; IVANOV, Ye.A.; SAID-GALIYEV, K.G.; LUK'YANOV, E.B.; MUSATOVA, V.A.; PLYSHEVSKIY, B.P., kand. ekon. nauk; STOMAKHIN, V.I.; KARPUKHIN, D.N., kand. ekon. nauk; KIRICHENKO, N.Ya.; ZHIDKOVA, M.V., kand. ekon. nauk; ANCHISHKIN, A.I.; KLINSKIY, A.I., kand. ekon. nauk; SOLOV'YEV, N.S.; KLOTSVOG, F.N.; VSYAKIKH, E.P.; LAGUTIN, N.S., kand.ekon. nauk; LEMESHEV, M.Ya., kand. sel'khoz.nauk; KORMNOV, Yu.F., kand. ekon. nauk; SAVIN, V.A.; TEREKHOV, V.F.; KUDROV, V.M., kand. ekon. nauk; AL'TER, L.B., doktor ekon. nauk, red.; KRYLOV, P.N., kand. ekon. nauk; LEPINKOVA, Ye., red.; KOKOSHKINA, I., mladshiy red.; ULANOVA, L., tekhn. red.

[Growth of the social product and the proportions of the national economy of the U.S.S.R.] Rost obshchestvennogo proizvodstva i proportsii narodnogo khoziaistva SSSR. Moskva, 1962. 453 p. (MIRA 16:2)

(Russia—Economic policy)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

GOLOVANENKO, B.I.; MENYAYLO, A.T.; SAVIN, V.A.

Synthesis of higher olefins by directed polymerization of ethylene. Zhur. VKHO 5 no. 5:594-595 '60. (MIRA 13:12)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov.
(Ethylene) (Olefins)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

C.A. SAVIN, V.A.
1951

Apparatus and [illegible]

Microscope for the interferometric study of transparent objects. V. A. Savin. *Doklady Akad. Nauk S.S.S.R.* 69, 177-9(1949).—The twin interferometer beams are made coaxial and antiparallel, and are focused through sep. identical objectives on the object, which is closer to one objective than to the other. Both beams pass through the object, but only one is focused on it. The recombined beam is viewed through an ordinary ocular. Local variations in refractive index of the object are thus visible as detail in the image plane.

Cyrus Feldman

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.A.

Investigating concave mirrors from the centers of curvature.
Opt.-mekh. prom. 25 no. 2:1-4 F '58. (MIRA 11:7)
(Mirrors)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.A.

Secondary recording device for the cascade control system. Priboro-stroenie no.2:16-18 F '62. (MIRA 15:2)
(Pneumatic control)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

RIGMANT, B.M.; BICHUCH, A.M.; SAVIN, V.A.

Roof nails. Standartizatsiia 26 no.4:46 Ap '62. (MIRA 15:3)
(Nails and spikes--Standards)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ACCESSION NR: AT3008552 S/2984/63/000/000/0171/0174

AUTHOR: Savin, V. A.

TITLE: An experiment in using a vacuum chamber for testing precision mirrors of astronomical instruments

SOURCE: Novaya tekhnika v astronomii; materialy* soveshch. Komissii priborostroyen. pri Astronom. sovete AN SSSR, Moskva, 18-20 apr. 1961 g. Moscow, Izd-vo AN SSSR, 1963, 171-174

TOPIC TAGS: vacuum chamber, optical mirror, optical instrument, precision testing, Foucault blade

ABSTRACT: Testing optical instruments in the air has a disadvantage in that air is generally inhomogeneous. Temperature and pressure differences are very important in this respect. The author computes the optic path difference for air and the deviation for linearity to show how inadequate tests in air may be. The vacuum chamber he describes will test plane mirrors with diameters up to 500 m. It was built through the initiative of Academician L. P. Linnik and has been used for several years. Photographs are furnished of several views. The chamber, construct-

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

BUDDEL', Yu.G.; CAVIN, V.A.; LUBOVICH, A.A.

Course of the reaction of acetolysis of cyclopentyl-$\alpha H_4^2$ - and cyclohexyl-$\alpha H_4^2$ tosylates. Vest.Mosk.un.Ser.2:Khim. 20 no.3:85-88 My-Je '65. (MIRA 18:8)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

BUNDEL', Yu.G.; SAVIN, V.A.; LUBOVICH, A.A.; REUTOV, O.A., akademik

Effect of the aqueousness of the medium on the type of hydride transitions and the degree of isomerization in the acetolysis of deuterocyclohexyl-p-toluenesulfonates. Dokl. AN SSSR 165 no.5:1078-1080 D '65. (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet. Submitted May 28, 1965.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SHURYGIN, V.P., kand.tekhn.nauk; IVANTSOV, M.G., inzh.; KLEYMAN, V.M., inzh.; MATSNEV, N.F., inzh.; FINTUSHAL', F.V., inzh.; MUKHRANOV, M.A., inzh.; NIKOLAYEV, N.P., inzh.; ANOSHKIN, A.I., inzh.; PILIPENKO, M.P., mekhanizator SMP-205; SAVIN, V.D., mekhanizator SMP-205

"Over-all mechanization of construction in railroad electrification" by A.P. Alekseev. Reviewed by V.P. Shurygin and others. Transp. stroi. 11 no.8:59-60 Ag '61. (MIRA 14:9)
(Railroads--Electrification)
(Alekseev, A.P.)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 12785-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AP3002388 S/0279/63/000/003/0098/0109

AUTHOR: Savin, V. D.; Reznichenko, V. A. (Moscow)

56

TITLE: Reduction of titanium tetrachloride by sodium

SOURCE: AN SSSR. Izv. Otd. tekhnicheskikh nauk. Metallurgiya i gornoye delo, no. 3, 1963, 98-109

TOPIC TAGS: titanium tetrachloride, sodium, reduction, metallic titanium, catalytic reaction

ABSTRACT: The mechanism and kinetic peculiarities of titanium tetrachloride reduction by sodium, as well as the role of titanium sponge formation and the addition of sodium chloride, were studied in the present investigation. An installation was set up which permitted the simultaneous study of the reaction kinetics by thermographic means in both the condensed and gaseous phases. The experiments were conducted at temperatures ranging from 550-860C in an atmosphere of argon. In the first series of experiments portions of titanium tetrachloride of 1.0, 1.5 and 2.0 cc were introduced into the reactor simultaneously with 8, 12, and 16 gms of sodium. In the second series, 25-gm portions of fused sodium chloride as such or with the addition of 5-gm sodiumthermic titanium were used. At the end

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 12785-63

ACCESSION NR: AP3002388

0

of the experiment the reactor was allowed to cool and the reaction product subjected to study. It was found that the reduction of titanium tetrachloride by sodium represented a complicated physico-chemical process in which participated not only metallic sodium in various states of aggregation but also the chlorides of titanium in various valency states and their solutions in sodium chloride. During the initial phase of the process the catalytical phenomena predominated, with a high reaction rate and a low activation energy, while at a more advanced stage of sodium utilization the diffusion phenomena set the pattern. Orig. art. has: 6 figures, 13 formulas and 2 tables.

ASSOCIATION: none

SUBMITTED: 14Mar63 DATE ACQ: 12Jul63 ENCL: 01

SUB CODE: 00 NO REF SOV: 004 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.D.; REZNICHENKO, V.A.

Studying the kinetics and the mechanism of titanium tetrachloride reduction by sodium. Titan i ego splavy no.9:172-185 '63. (MIRA 16:9)

(Titanium--Metallurgy)
(Thermochemistry)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 18583-65 EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pt-10/Pu-4 IJP(c) JD/
WW/JG/MLK

ACCESSION NR: AT4045993 S/0000/64/000/000/0041/0054

AUTHOR: Savin, V. D.; Reznichenko, V. A.

B+1

TITLE: Sodium reduction of lower titanium chlorides

SOURCE: AN SSSR. Institut metallurgii. Issledovaniya metallov v zhidkom i tverdom sostoyaniyakh (Research of metals in liquid and solid states). Moscow, Izd-vo Nauka, 1964, 41-54

TOPIC TAGS: titanium chloride, sodium reduction, black salt

ABSTRACT: The authors investigated the kinetics, temperature conditions, crystallization and the mechanism of the processes that accompany the reduction of various lower titanium chloride melts and, in particular, titanium trichloride and complex lower titanium chloride compounds such as "black salt." They found that at the initial stage of sodium reduction, trivalent titanium was reduced to bivalent titanium and, subsequently, to metallic titanium. Throughout the melt and in the gaseous phase several primary and secondary reactions were

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L 18583-65

ACCESSION NR: AT4045993

observed at the initial stage of reduction. The reduction is confined to a zone which shifts from the melt surface to the bottom of the reactor. Trivalent titanium disappears from the melt at a 40 to 50% reduction. Metallic titanium is deposited on the reactor walls in the form of small dendrites. Secondary reactions lead to the formation of considerable amount of finely dispersed titanium. The sodium reduction of "black salt" is accompanied by auxiliary processes brought on by the disintegration of the black salt complexes, phase transformations and the reduction of their products. Initially, the reduction of trivalent titanium takes place and the accumulation of bivalent titanium followed by the simultaneous reduction of tri- and bi-valent titanium and, finally, by the predominant reduction of bivalent titanium. During the reduction of trivalent titanium the activation energy is 1765 cal/mol and reaches 3960 cal/mol for black salt. Good results in the formation of coarse crystalline titanium were obtained by the use of black salt melts and titanium bichloride with sodium chloride. However, titanium trichloride did not give the desired results. The addition of sodium chloride to titanium chloride melts enhances the precipitation of coarse-crystalline titanium not only by inhibiting the process but also by binding titanium trichloride into $TiCl_3 \cdot 3NaCl$ which does not react to metallic titanium. Orig. art. has: 6 figures.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 18583-65

ACCESSION NR: AT4045993

and 2 tables

ASSOCIATION: None

SUBMITTED: 18May64 ENCL: 00

SUB CODE: IC NO REF SOV: 004 OTHER: 003

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

ACC NR: AT7004213 (N) SOURCE CODE: UR/0000/66/000/000/0169/0176

AUTHORS: Savin, V. D.; Reznichenko, V. A.

ORG: none

TITLE: Quantitative thermographic investigation of the reduction of titanium tetrachloride with metallic sodium

SOURCE: AN SSSR. Institut metallurgii. Eksperimental'naya tekhnika i metody vysokotemperaturnykh izmereniy (Experimental techniques and methods of high temperature measurement). Moscow, Izd-vo Nauka, 1966, 169-176

TOPIC TAGS: titanium compound, sodium, chemical reduction, oxidation reduction reaction

ABSTRACT: The reduction kinetics of the reduction of titanium tetrachloride with metallic sodium was investigated. The study was carried out with a specially constructed contactless thermobarographic apparatus which records simultaneously the heat and pressure of the reaction as a function of time. The heat effect is evaluated after the method of N. A. Nedumov (Vysokotemperaturnyy metod beskontaktnoy termografii. - Zhurn. fiz. khimii, 1960, No. 1). The apparatus was used to determine the rate of titanium tetrachloride reduction with sodium in the temperature interval of 550--860C. The experimental results were compared with the results of V. D. Savin

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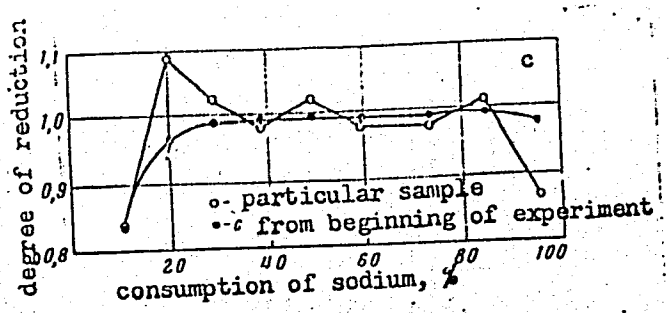
ACC NR: AT7004213




found that the optimum heat flux interval was in the region of 1700--3400 cal and that, at these conditions, the maximum experimental error was on the order of 4.5%. Orig. art. has: 5 graphs and 9 equations.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 003

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.D.; REZNICHENKO, V.A.

Thermographic method of studying heterogeneous processes. Zav. lab. 30 no.1:63-67 '64. (MIRA 17:9)

1. Institut metallurgii imeni A.A. Baykova.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

120-6-36/36

AUTHORS: Savin, V.G., Petrov, V.P., and Loginov, V.I.

TITLE: Color Recording Using a Loop Oscillograph (Tsvetnaya zapis' na shleyf-ostsillografe)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.6, pp. 120 - 121 (USSR).

ABSTRACT: In the simultaneous recording of similar processes on a loop spectrograph, a black and white oscillogram is difficult to interpret. In order to make the interpretation easier, a method of recording on a colour film was developed. The principle of colour recording is as follows. A colour filter is placed in the path of the white beam of light coming from the illuminator. The colour is complimentary to that which it is required to obtain on the oscillogram. For this purpose, an eight-loop oscillograph МПО-2 was used. Its optical scheme is shown in Fig.1. The oscillograph can be used for colour recording without any alterations. It is simply necessary to place a collection of light filters between the slits 3 and mirrors 4. The filters are in the form of a metal grid with colour bands attached across the slits. The grid and its method of mounting is shown in Fig.2. The colour filters for each slit are such that the lines on the oscillogram are in well differing colours. Using АС-2 films good results were

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

S/020/62/145/001/005/018
B104/B102

AUTHORS: Bulina, I. G., and Savin, V. G.

TITLE: Formation of a stagnant front zone when a blunt body is surrounded by a flow of viscoplastic fluid

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 1, 1962, 56-58

TEXT: At the gidrofizicheskaya laboratoriya Moskovskogo universiteta (Hydrophysical Laboratory of the Moscow University) flow studies were made of a suspension of gray clay in water (specific weight 1.40 g/cm$^3$, viscosity 190 poises, shear stress 430 dyn/cm$^2$) around variously shaped bodies (rectangular block, rectangular block with oblique faces, hemispherical block etc.). These bodies and the photographic instruments, illuminators, etc. were run along a track in a glass tank filled with the liquid, at velocities of 0.01 to 150 cm/sec. Under certain conditions a stagnant front zone was observed, which does not occur when a body is surrounded by a current of normal fluids. The thickness of this zone slightly decreases as the velocity increases. At

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

BULINA, I.G. (Moskva); MYASNIKOV, V.P. (Moskva); SAVIN, V.G. (Moskva)

Experimental study of the plane flow of a viscoplastic medium past blunt-nosed bodies. PMTF no.5:127-131 S-O '64. (MIRA 18:4)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

L 21130-65 EWP(m)/EWG(v)/EWT(1)/FCS(k)/EWA(d)/EWA(1) Pq-4/Pe-7
Pq-4 AEDC(a) S/0207/64/000/005/0127/0131
ACCESSION NR: AP5002873

AUTHOR: Bulina, I. G. (Moscow); Myasnikov, V. P. (Moscow); Savin, V. G. (Moscow)

TITLE: An experimental study of the streamlining of blunt bodies by a plane flow of a viscous-plastic medium

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1964, 127-131

TOPIC TAGS: plane flow, viscous plastic medium, drag coefficient, blunt body, wedge shaped body, streamlining

ABSTRACT: The problem of a plane stream of viscous-plastic medium flowing around a blunt body has been studied in great detail. The experiments, aimed at determining resistance, were carried out with a specially designed dynamometer. The results obtained agreed well with the theoretical data on the nature of the relationship between drag coefficient of the body and the controlling parameters of the problem. For geometrically shaped bodies (parallelepipeds, cylinders, and wedge-shaped bodies were tested), the $\gamma C_a$ product is a universal function of $S_1$, which can be determined experimentally on one model and later used to compute the streamlining of bodies having different geometric parameters. The main geometric characteristics of a streamlined body are its maximum thickness and its length. It was found that the

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L 21130-65
ACCESSION NR: AP5002873

drag of wedge-shaped bodies moving in a viscous-plastic medium, unlike the drag of bodies streamlined by a viscous fluid under similar conditions, does not depend upon whether the body moves with its base or its nose forward. Orig. art. has: 7 figures, 12 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 16May64 ENCL: 00 SUB CODE: ME, AS

NO REF SOV: 004 OTHER: 000 ATD PRESS: 3165

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I.

New types of mattresses and mattress pads. Der. i lesokhim. prom. 3 no.7:25 Jl '54. (MLRA 7:7)

1. Moskovskaya mebel'naya fabrika No.1.
(Mattresses)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

MOSTKOV, V.M., kand.tekhn.nauk; SAVIN, V.I., inzh.

Use of coarse-aggregate gunite in tunnels of hydroelectric developments. Gidr. stroi. 30 no.9:13-16 S '60. (MIRA 13:9)

(Tunneling) (Gunite)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I.; MALYSHKIN, A.G.

Distributing shipments of oil between various types of transport using linear programming and electronic computers. Neft. khoz. 42 no.2:49-54 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

GALADZHEV, R.S.; SAVIN, V.I.; KATAR'YAN, Ye.S.

Calculations for a mounted overshot straw and hay stacker. Trakt. i sel'khozmash. 31. no.7:23-25 Jl '61. (MIRA 14:6)

(Harvesting machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I., inzh.

Machines for spraying concrete and their use in construction. Mekh. stroi. 19 no.5:15-17 My '62. (MIRA 15:5)
(Concrete construction)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I., inzh.

Experimental determination of the aerodynamic resistance of hay and straw stacks. Trakt. i sel'khozmash. no.5:29-31 My '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, Vladimir Ivanovich, kand. tekhn. nauk; MOROZOV, Nikolay Petrovich, inzh.; MOZZHERIN, Boris Vasil'yevich, inzh.;

[Optimum use of transportation technology in ports and river terminals; manual for groups on the raising of qualifications of engineers and technicians in the Ministry of the River Fleet of the Russian Soviet Federated Socialist Republic] Optimal'noe ispol'zovanie peregruzochnoi tekhniki v portakh i prirechnykh neftebazakh; uchebnoe posobie dlia grupp povysheniia kvalifikatsii inzhenerno-tekhnicheskikh rabotnikov Ministerstva rechnogo flota RSFSR. Gor'kii, Gor'kovskii in-t inzhenerov vodnogo transp. 1963. 33 p. (MIRA 17:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

GULEMIN, E.M.; D'YAKOVA, G.N.; SHUSTER, R.L.; SAVIN, V.I.

Wall panels of keramzit foam concrete. Stroi. mat. 10 no.2:25-26 F '64. (MIRA 17:6)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.; LAVRENT'YEV, M.

We will improve the operation of the United Volga Steamship Companies. Rech.transp. 14 no.4:25-28 Ap '56. (MLRA 9:8)

1. Zamestitel' glvnogo dispetchera po tyage (for Savin); 2. Zamestitel' glavnogo dispetchera po tonnazhu (for Lavrent'yev).
(Volga River--Steamboat lines)
(Inland water transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I., inzh.

Improvement of visibility conditions in pushing barge trains.
Rech.transp. 17 no.11:17-20 N '58. (MIRA 11:12)
(Inland navigation) (Tugboats)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I., inzh.

Operational economic evaluation of experimental sectional barge trains. Rech.transp. 18 no.2:17-19 F '59. (MIRA 12:4)
(Barges)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

SAVIN, V.I., inzh.

Effectiveness of widening cargo hatches on ships. Rech.transp. 18 no.6:47-48 Je '59. (MIRA 12:9)
(Ships--Equipment and supplies)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2

VOLOVOY, D.I., inzh.; SAVIN, V.I., inzh.

Seeking a better way to assign different types of vessels to the appropriate lines. Rech.transp. 18 no.10:10-13 O '59. (MIRA 13:2)

(Inland water transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447330007-2"