SMIRNOV, M.V.

Brigades of communist labor of the Kazan Railroad. Avtom., telem. i sviaz' 4 no.10:22-23 O '60. (MIRA 13:10)

1. Nachal'nik sluzhby signalizatsii i svyazi Kazanskoy dorogi.
(Railroads--Signaling)

KUZNETSOV, S.T., kand.tekhn.nauk; SMIRNOV, M.V., kand.tekhn.nauk

Results of tests of the M-87 support in Kuznetsk Basin mines and a study of its principal features on models. [Trudy] VNIMI no.45:263-281 '62. (MIRA 16:4)

(Mine timbering--Testing)

SMIRNOV, M.V.

"Safety measures in repair and assembly work in the machinery industry" by M.I.Korsakov. Reviewed by M.V.Smirnov. Mashinostroitel' no.4:47 Ap '63. (MIRA 16:5)
(Machinery industry--Safety regulations) (Korsakov, M.I.)

KOZLOV, Svyatoslav Nikolayevich; SMIRNOV, Mikhail Vasil'yevich; BAZ', Ivan Stepanovich; SIDOROV, Petr Aleksandrovich; BEZDENEZHNYKH, P.T., red.; SRIBNIS, N.V., tekhn.red.

[Soviet military science] O sovetskoi voennoi nauke. 2., perer. i dop. izd. Moskva, Voenizdat, 1964. 403 p. (MIRA 17:3)

L 55932-65 EWT(1)/EWG(v)/T-2 Pe-5 UR/0084/65/000/007/0028/0028

ACCESSION NR: AP5016684

AUTHOR: Grishanov, N. (Engineer); Kalashnik, V. (Engineer); Smirnov, N. (Engineer)

17
B

TITLE: Climate in an aircraft

SOURCE: Grazhdanskaya aviatsiya, no. 7, 1965, 28

TOPIC TAGS: passenger aircraft, aircraft air conditioner, aircraft cabin equipment

ABSTRACT: A greatly improved air conditioning system has been developed for channeling air directly into the passenger compartments of the AN-10 passenger aircraft, bypassing the panel ducts. The panel system is switched on only after a given temperature is attained. In this system, hot compressed air from the compressors of all four engines passes through stopcocks, pressure limiters, return valves, and into the common wing duct. The air then moves to the cooling units consisting of a radiator and two simultaneously operating turbocooling units located in the left fairing of the undercarriage. From these units, the air passes along five ducts into the cockpit, to the panel ducts of the three passenger compartments, and to an air-distribution duct located in the upper portion of the compartments. Temperature in the compartments is maintained by mixing hot air into the basic cooled-air

Card 1/2

SMIRNOV, N.; SAVCHENKO, A., inzh.; OVECHKIN, Yu., inzh.

Special features in the use of transistors. Radio no.2:53-56 F '65. (MIRA 18:4)

maintenance of gliders and engines are discussed and periods of flights between repairs are indicated. New, revised regulations are also used for maintenance of Ya-12, Li-2, An-2 and Il-14 aircraft. The aircraft "Morava" is also covered by these regulations.

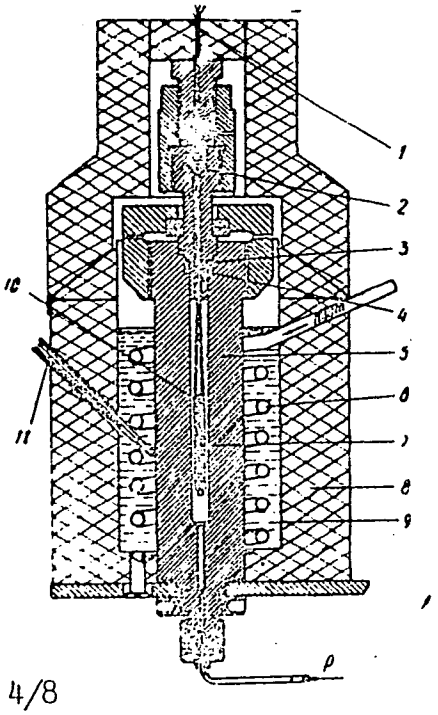
SUB CODE: 01/ SUBM DATE: None

SMIRNOV, N.A., inzh.

Effect of high hydrostatic pressure on the transformation of martensite to austenite in iron-nickel alloys. Izv.vys.ucheb. zav.; chern.met. 2 no.10:109-112 O '59. (MIRA 13:3)

1. Zaporozhskiy mashinostroitel'nyy institut. Rekomendovano kafedroy metallovedeniya Zaporozhskogo mashinostroitel'nogo instituta.
(Iron-nickel alloys--Metallography)
(Pressure)

by heating to 1,000° C in a hydrogen flow with holding for 18 hr, double-wound on a serpentine spool. After winding the spool was heated at vacuum to 1,000° C and held for 25 min to remove the effects of plastic deformation and the remaining hydrogen, after which the wire was ready for testing. For determining the temperature at which austenite transformation begins, the measuring of the electric resistance was chosen, since the transformation of austenite to martensite consists of a rearrangement of face-centered austenite lattice to body-centered martensite lattice, which is accompanied by a noticeable decrease in electric resistance. Changes in electric resistance were measured with an accuracy of 0.05 ohm and a pressure of ± 15 kg/cm^2 per 1,000 kg/cm^2 of pressure. Temperature was measured by iron-constantan thermocouple. The high-pressure chamber used in the investigation is shown in Fig. 1. The pressure was created either by multiplier or by high-pressure hydraulic compressor designed by L. F. Vereshchagin. In view of the fact



77143 SOV/148-59-9-13/22

Fig. 1. High-pressure chamber for investigation of phase transformations at low temperatures: (1) electric leads; (2) ebonite cone; (3, 4) steel and babbit sealing rings; (5) body; (6) cooling coil; (7) spool; (8) thermal insulation; (9) gasoline; (10) thermocouple; (11) thermometer.

Card 4/8

The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy

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SOV/148-59-9-13/22

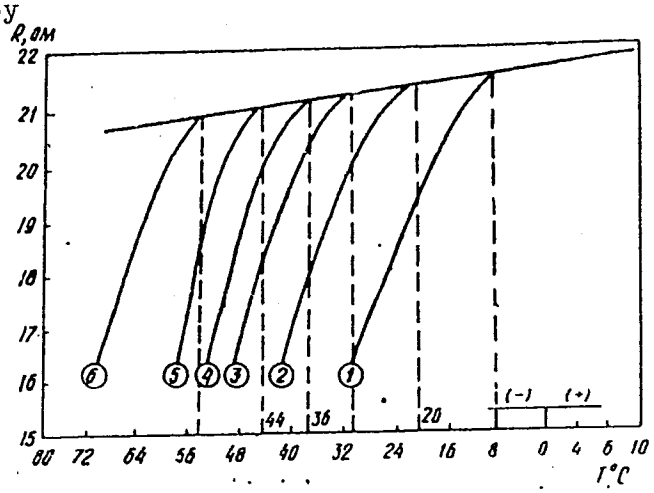

Fig. 3. Shifting of temperatures at which transformation of austenite to martensite begins.

Card 6/8

The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy

77143
SOV/148-59-9-13/22

G. Kulin, Journal of Metals, June, 1952.

ASSOCIATION: Zaporozh'ye Machine Building Institute (Zaporozhskiy mashinostroitel'nyy institut)

SUBMITTED: April 27, 1959

Card 8/8

Smirnov, N.A.

USSR/General Problems. Methodology, History, Scientific Institutions and Conferences, Instruction, Questions Concerning Bibliography and Scientific Documentation. A

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3460.

Author : N.A. Smirnov, A.S. Yablonskiy, V.A. Fefilov, Z.N. Pukhovitskaya, Ya. M. Koldobskiy.

Inst :

Title : Development of Leningrad Bread Baking Industry.

Orig Pub: in symposium: Pishchevaya prom-st', L., Sel'khozgiz, 1957, 23-41.

Abstract: No abstract.

Card : 1/1 -11-

SMIRNOV, N.A.

USSR /Chemical Technology. Chemical Products and Their Application I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32181

Author : Ivanov N. Ye., Kheruntseva Kh. A., Smirnov N.A.

Title : Boiling of Toweling Fabric with Hydrogen Peroxide

Orig Pub: Tekstil'naya prom-st', 1956, No 4, 50-51

Abstract: Bleaching of cotton fabrics with H_2O_2 has considerable advantages over the alkaline-hypochlorite method of bleaching. In this procedure the processes of desizing, boiling and bleaching are carried out in one bath. Compositions and

Card 1/3

USSR /Chemical Technology. Chemical Products and Their Application I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32181

served on using the alkaline-hypochlorite method of bleaching. It was ascertained that direct and basic dyestuffs are not decomposed under conditions of peroxide bleaching while the acid dyes are completely discharged. Therefore it is recommended to use only acid dyes for marking coarse linen.

Card 3/3

CHEREMUSHKIN, S.D., kand. sel'khoz. nauk; KLOPOTOVSKIY, A.P., kand. sel'khoz. nauk; MARKOVA, M.V., kand. sel'khoz. nauk; SMIRNOV, N.A., red.

[Basic principles of the economic valuation of land]Osnovnye printsipy ekonomicheskoi otsenki zemli; materialy nauchno-issledovatel'skikh rabot. Moskva, Vses. nauchno-issl. in-t ekon. sel'.khoz. 1962. 79 p. (MIRA 16:1)

1. Rukovoditel' otdela ekonomicheskoy otsenki zemel'nykh ugodiy Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Cheremushkin). 2. Otdel ekonomicheskoy otsenki zemel'nykh ugodiy Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Klopotovskiy, Markova). (Moscow Province--Farms--Valuation) (Moscow Province--Soils--Classification)

PENTYUK, M.V., kand. sel'khoz. nauk; UDOVENKO, Ye.Ya., otv. red.; KNYAZEV, N.K., red.; TASHCHEV, Ye.N., red.; SVYADOSTS, Yu.I., red.; SMIRNOV, N.A., red.

[Problems in increasing the number of sheep and the production of mutton]Voprosy uvelicheniia pogolov'ia ovets i proizvodstva baraniny. Moskva, Vses. nauchno-issl. in-t ekonomiki sel'. khoz., 1962. 93 p. (MIRA 15:11)

(Sheep)

ZOTOV, A.; YAKUBOV, B.; SMIRNOV, N.; CHABROV, G.; KOCHEROV, V., red.; BAKHTIYAROV, A., tekhn. red.

[Cities of the Fergana Valley; concise reference book] Goroda Ferganskoi doliny; kratkii spravochnik. Perer. 2 izd. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1963. 157 p. (MIRA 16:11)

(Fergana--Cities and towns)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV, V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S.[deceased]; MELAMEDOV, N.K.; SERGEYEV, V.V.: Prinimali uchastiye: AMMOSOV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk, dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A., prof., red.; DNEPROVA, N.N., red.izd-va; PUL'KINA, Ye.A., tekhn. red.

[Technology of building] Tekhnologiia stroitel'nogo proizvodstva. [By] N.A.Smirnov i dr. Leningrad, Gosstroiizdat, 1963. 435 p. (MIRA 17:2)

SMIRNOV, N.A., inzh

New developments in the graph analysis method of determining the size of displacements in aligning curves. Transp. stroi. 12 no.1:39-40 Ja '62. (MIRA 17:2)

SMIRNOV, N.A. (Leningrad); SMOLOV, V.B. (Leningrad)

Concerning a method for the construction of voltage-to-code integral-differential code converters. Avtom. i telem. 25 no.2:250-261 F '64. (MIRA 17:4)

ACC NR: AT6029240 SOURCE CODE: UR/0000/66/000/000/0270/0279

AUTHOR: Gul'ko, F. B.; Smirnov, N. A.

ORG: none

TITLE: Use of prediction methods for controlling nuclear reactor start-up

SOURCE: Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematicheskogo modelirovaniya. 4th, Kiev, 1964. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); trudy konferentsii. Moscow, Izd-vo Nauka, 1966, 270-279

TOPIC TAGS: nuclear reactor operation, nuclear reactor, nuclear reactor accident, computer simulation, control simulator

ABSTRACT: The essence of prediction methods is that the manipulated variable (or control input) is not formed on the basis of actual values of the phase coordinates of the controlled object but on the basis of their predicted values. The predicted values are calculated by a prediction device which is a high-speed electron simulator of the controlled plant with an iterative solution operating in conjunction with a transponder. The investigation covered the start-up processes of a reactor for physical and technological research and of a thermal reactor, as well as the equipment for electronic simulation. For both reactors the problem was reduced to that of producing the desired neutron rate levels or the desired temperature. Where these levels are about to be ex-

Card 1/2

SMIRNOV, N.A., inzh.

Experimental investigation of the variable speed gear of the chassis of the Sk-3 self-propelled combine. Trudy MIMESKH 10:133-148 '59.
(MIRA 13:12)

(Combines (Agricultural machinery))
(Gearing)

SMIRNOV, N.A., inzh.

Investigation the optimum traction force of doubled V-belt type infinitely variable transmissions. Trudy MIMESKH 10:149-164 '59. (MIRA 13:12)

(Gearing) (Belts and belting)

SMIRNOV, N.A., inzh.

Theory and calculation of the V-belt type variable speed gear. Trudy MIMESKH 10:165-183 '59. (MIRA 13:12)
(Gearing) (Belts and belting)

SMIRNOV, N. A., Cand Tech Sci, "Study of the Twin Alternator V-belt xxxxxxx of self-propelled combines." Moscow, 1960. Moscow Order of Lenin Agr Acad im K. A. Timiryazev). (KL, 2-61, 212).

BALANDIN, Andrey Andreyevich; SMIRNOV, N.A., prof., red.; PANIVAN, P.S., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Fundamentals of fire safety at a construction site] Osnovy pozharnoi bezopasnosti na stroitel'no-montazhnoi ploshchadke. Leningrad, 1962. 28 p. (Leningrad. dom nauchno-tekhn. propagandy. Bibliotechka stroitelia po tekhnike bezopasnosti, no.15) (MIRA 16:12)
(Construction industry--Fires and fire prevention)

VINOGRADOV, Yevgeniy Grigor'yevich, kand. tekhn. nauk; SMIRNOV, N.A., prof., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Safety measures in mechanical processing of wood]Tekhnika bezopasnosti pri mekhanicheskoi obrabotke drevesiny. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1962. 37 p. (Bibliotechka stroitelia po tekhnike bezopasnosti, no.4) (MIRA 16:3)
(Woodworking machinery--Safety appliances)

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SOV/146-58-6-1/16

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AUTHORS: Smolov, V.B., Candidate of Technical Sciences, Smirnov, N.A., Assistant, and Nazarov, I.A., Candidate of Technical Sciences

TITLE: Application of Rotating Transformers (VT) as Functional Transformers of Approximate Action

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1958, Nr 6, pp 3-13 (USSR)

ABSTRACT: The rotating transformers (VT) are typical induction components of electromechanical modulating plants, and serve for the realization of equations of the type:
$U_{21} = K_{T_1} U_{11} \cos \varphi - K_{T_2} U_{12} \sin \varphi$

$U_{22} = K_{T_2} U_{11} \sin \varphi + K_{T_4} U_{12} \cos \varphi$, where K_{T_1}, K_{T_2}, K_{T_3}, K_{T_4} are transformation coefficients. In accordance with the above formulae, the VT can be used for the following operations: a) Turning of axes of a rect-

Card 1/3

Application of Rotating Transformers (VT) as Functional Transformers of Approximate Action

angular coordinates system at an angle ; b) computing the tension values U_{11} and U_{12} at = 45^0 = const.; c) scanning of vector $R(U_{11}$ into its components U_{21} and U_{22} in a rectangular coordinates system; d) building of vector $R(U_{22}$,) in a rectangular coordinates system; e) multiplying the value U_{11} by a constant multiplier. The number of operations which can be performed with the aid of VT will be considerably increased if special connection layouts will be used. The layout FP (Figure 2) realizes the trigonometric polynom

$$z(x) = \sum_{k=0}^{n} A_k x^k \quad (0 \quad x \quad x_{max})$$

In using electronic numerical computation devices with different control layouts, it is often an advantage to have functional transformers which transform the ingoing continuous values into discrete ones. These transformers, unlike linear transformers, realize the

Application of Rotating Transformers (VT) as Functional Transformers of Approximate Action

transformation as $N = f(\varphi)$

$$N = f(U_{Bx})$$

The analyzed layout of VT in a capacity of FP of approximate action permits enlarging of the field in which the standard induction elements of computation designs of continuous or discrete action are used. There are 1 table, 4 graphs, 8 schematic diagrams and 2 Soviet references.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute imeni V.I. Ul'yanov (Lenin))

SUBMITTED: September 6, 1958

SMIRNOV, N.A.

91-58-7-16/27

AUTHOR: Smirnov, N.A., Technician

TITLE: Exchange of Experience (Obmen opytom). Fault Localization in Power Transmission Cables by Means of a Compass (Opredeleniye povrezhdeniy v silovykh kabelyakh pri pomoshchi kompasa).

PERIODICAL: Energetik, 1958, Nr 7, pp 31-32 (USSR).

ABSTRACT: The author of this article suggests utilizing the compass for fault localization, if special equipment is not available. He describes the localization of breakdowns between the phases of a 250 m long cable consisting o 3 pieces with sections of 150 and 120 sq mm. Two cores of this cable were welded together by the breakdown. At one cable side a 12 v automobile storage battery and a knife switch, in series with a 0,2 ohm limiter resistance, were inserted into the circuit loop formed by the breakdown. Short pulses were transmitted by means of the knife switch at intervals of 2 to 3 seconds. Having established that the compass put on the cable shielding, responded to the impulses, a first hole of 400 x 400 was bored in the ground at the center of the cable run. The compass put on the cable shielding in

Card 1/ 2

Exchange of Experience. Fault Localization in Power Transmission Cables by Means of a Compass.

this hole did not deviate. This proved that the fault was located nearer to the substation and, by dividing each part of the cable successively into halves, by means of holes bored in the earth, the fault was rapidly located. The editor of this periodical states that this primitive method was applied because of lack of appropriate equipment. The nature of the fault described by the author would have permitted the application of the induction method, which would have located the fault with a 100 % accuracy without boring any holes. The editor recommends observing the special instructions for cable line service laid down by the Ministerstvo elektrostantsiy(Ministry of Electric Power Plants), Gosenergoizdat, 1954. There is 1 Soviet reference.

1. Transmission lines--Maintenance 2. Electric cables--Test methods 3. Compasses--Applications

SOV/144-58-9-18/18

AUTHOR: Gikis, A. F., Candidate of Technical Sciences, Docent

TITLE: Inter-University Scientific Conference on Electric Measuring Instruments and Technical Means of Automation (Mezhvuzovskaya nauchnaya konferentsiya po elektroizmeritel'nym priboram i tekhnicheskim sredstvam avtomatiki)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika, 1958, Nr 9, pp 130-135 (USSR)

ABSTRACT: The conference was held at the Leningradskiy elektrotekhnicheskiy institut imeni V. I. Ul'yanova (Lenina) (Leningrad Electro-technical Institute imeni V. I. Ul'yanov (Lenin)) on November 11-15, 1958. The representatives of eleven higher teaching establishments and three research institutes participated and a large number of specialists of various industrial undertakings were present.

Corresponding Member of the Ac.Sc. USSR Professor K. B. Karandeyev presented the paper "Application of semi-conductors for metering purposes".
Assistant G. N. Novopashennyy presented the paper "Metering amplifiers with semi-conductor triodes".
Docent Ya. V. Novosel'tsev, Assistants N. A. Smirnov, Ye. Ye. Afanas'yev and Ye. P. Ugryumov (Leningrad Electrotechnical Institute) presented the paper "Semi-conductor precision instrument for measuring the frequency by the method of counting impulses". The described instrument enables measuring the frequency of harmonic oscillations which occur once only; the frequency of the input oscillations is amplified 24 times and the error in measurement does not exceed 2×10^{-3}.
A number of papers were presented on measuring and producing instruments based on recently discovered physical phenomena.

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C111/C222

16.6800

AUTHORS: Nazarov, I.A., and Smirnov, N.A.

TITLE: On the calculation of trigonometric functions with electronic digital devices

PERIODICAL: Referativnyy zhurnal. Matematika, no.6, 1961, 43, abstract 6V 268. (Izv. Leningr. elektrotekhn. in-ta, 1959, 39, 148-152)

TEXT: The author describes an input device with the aid of which in a special-purpose computer an arbitrary argument can be reduced to a value being smaller than $\pi/2$ or $\pi/4$. Then the argument is led to an arithmetic mechanism for calculating the Sine according to the well-known program.

[Abstracter's note: Complete translation.]

Card 1/1

NOVOSEL'TSEV, Ya.V. [deceased]; AFANAS'YEV, Ye.Ye.; SMIRNOV, N.A.; UGRYUMOV Ye.P.

Transistor instrument for high-precision measurements of frequencies. Izv.vys.ucheb.zav.; prib. 3 no.2:30-43 '60. (MIRA 14:4)

1. Leningradskiy elektrotekhnicheskiy institut imeni V.I.Ul'yanova (Lenina). Rekomendovana kafedroy schetno-reshayushchey tekhniki.
(Frequency measurements)

32968
S/146/61/004/006/007/020
D201/D30

9,7200

AUTHORS: Smirnov, N. A., Smolov, V. B. and Ugryumov, Ye. P.

TITLE: Time-pulse transistorized multiplier-divider

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 4, no. 6, 1961, 47-56

TEXT: The authors describe compact transistorized time-pulse instruments performing operations of the type of

$$V_{out} = K_1 \frac{V_1 V_2}{V_o} \qquad (1)$$

where K_1 is a constant with values of inputs V_1, V_2 and V_o, given by d.c. voltages with max. relative errors of 1%; the instruments have time constants of the order of 20/sec, and are meant to ope-

Card 1/4

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D201/D301

4

Time-pulse transistorized ...

rate at constant ambient temperatures ($\approx \pm$ 10°C with respect to the set zero temperature). The instruments were designed at the Department of the Analogue Computer Techniques of the LETI im. V. I. Ul'yanov (Lenin) on the closed-loop system principle. A block diagram of the computer is given in Fig. 1. It consists of three main units (shown by dotted lines). Unit 1 - a pulse width modulator; 2 - pulse amplitude divider; 3 - a voltage difference amplifier. Operation of the circuit is briefly discussed and sources of errors are determined. The carrier frequency in the described arrangement was 2 - 5 kc/s. Higher frequencies lower the accuracy owing to increased pulse distortion. Emitter followers are used as buffer stages throughout. Requirements as to the integrating networks are stated to be non-critical which makes it possible to use passive RC-networks for this purpose. The d.c. amplifier is a three-stage balanced one with a cathode follower output, overall gain 1000, with series-connected complementary transistor stages. The requirements as to the characteristics of transistors for a multiplier-divider arrangement may be summarized as follows: a) High operating voltages; b) large β; c) high f_α; d) small I_{co}.

Card 2/4

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Card 3/4

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Time-pulse transistorized ...

SUBMITTED: November 9, 1960

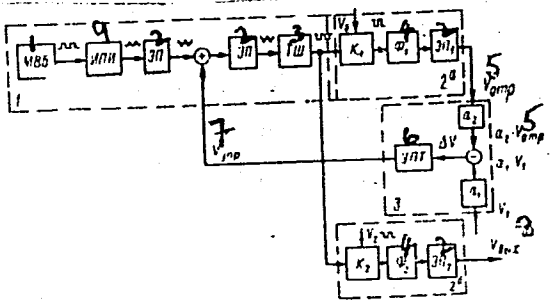

Fig. 1

Legend: 1 - multivibrator; 2 - emitter follower; 3 - Schmitt trigger; 4 - filter; 5 - V_{-ve}; 6 - d.c. amplifier; 7 - $V_{control}$; 8 - V_{out}; 9 - right-angle impulse integrator

Card 4/4

TOPOLYANSKIY, Abram Borisovich, inzh.; SMIRNOV, N.A., prof., red.; PAPIYEV, V.R., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Safe use of electricity in construction and assembly work] Elektrobezopasnost' pri proizvodstve stroitel'no-montazhnykh rabot. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1962. 48 p. (Bibliotechka stroitelia po tekhnike bezopasnosti, no.3) (MIRA 16:5)
(Electricity in building--Safety measures)

S/115/62/000/005/003/006
E140/E435

AUTHORS: Smirnov, N.A., Smolov, V.B., Fomichev, V.S., Chernyavskiy, Ye.A.

TITLE: Transistorized digital-analogue converter

PERIODICAL: Izmeritel'naya tekhnika, no.5, 1962, 29-32

TEXT: A digital-analogue converter developed at the LETI im. V.I.Ul'yanova (Lenina) in 1960-1961 is described. The system operates at frequencies not exceeding 50 kc/s, in the temperature range ± 60°C, with a precision of 0.01%. The full-scale voltage into loads of 10 to 250 k.. is of the order of 0.020 V. The relatively high precision is obtained by the use of saturated transistor switches in a balanced configuration (Fig.6) and a divided resistance summation network (Fig.5). The power supplies are stabilized to 0.05%; wire-wound resistors of the same tolerance are used. There are 7 figures and 1 table.

Card 1/2

9.7400

38835
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D230/D308

AUTHORS: Smirnov, N.A., Smolov, V.B. and Fomichev, V.S. (Leningrad)

TITLE: Bridge electronic digital-to-analog functional converter

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 6, 1962, 802-817

TEXT: The authors deal with bridge digital-to-analog computers suitable for functional processing of digital data in accordance with the relations $N_z = F(N_x)$ and $N_z = \Phi(N_x, N_y)$, where N_x, N_y - input 'informing' digital data; N_z - output 'controlling' digital data. Both the theoretical and practical work were performed in the Kafedra vychislitel'noy tekhniki LETI im. V.I. Ul'yanova (Lenina) (Department of Computer Engineering LETI im. V.I. Ulyanov (Lenin)). In the case of transition from the digital output data to continuous data, rheostats or potential controlling sources should be connected into the corresponding arm of the bridge digital-to-analog computers.

Card 1/2

On thermal conductivity of the system of solid solutions PbTe-PbS.
Ye. D. Devyatkova, V. V. Tikhonov, N. A. Smirnov.

Change of the electrical properties of PbSe, PbTe, and PbS under close pressure. A. D. Averkin, A. A. Andreyev, I. G. Dombrovskaya, B. Ya. Moyzhes, E. O. Nensberg.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

L 11599-63 EWT(d)/FCC(w)/BDS ASD/ESD-3/APGC/SSD Pg-4/Pk-4/Po-4/ ~~Pq-4~~ GG/IJP(C)

ACCESSION NR: AP3001370 S/0144/63/000/005/0597/0604 76

AUTHOR: Smirnov, N. A.; Smolov, V. B.; Fomichev, V. S.; Chernyavskiy, Ye. A.

TITLE: "Number-angle" decoder with intermediate conversion 16

SOURCE: IVUZ. Elektromekhanika, no. 5, 1963, 597-604

TOPIC TAGS: digital decoder, binary decoder

ABSTRACT: A simplified circuit is proposed for the decoding of binary-coded shaft rotation data, for the case where the angular resolution can be relatively low (8-11 bits). The design uses an intermediate conversion whereby the digital input is in effect converted to conductance and the variation in conductance controls the a-c voltage to the output motor. The basic operation is as follows: A double-ended a-c reference voltage with grounded center tap is connected across a parallel bank of transistor pairs. Each pair has a common emitter and collectors connected to opposite ends of the a-c bus. Each pair also represents one digital order. In a given pair one or the other transistor is switched on depending on whether the total input digital command has a "positive" or

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ACCESSION NR: AP3001370 O

"negative" sense of angular rotation; thus the a-c current which is switched on has a forward or reverse phase sense. The sum of switched currents flows through a precision summing resistor, developing the control voltage for the output motor. The "positive" or "negative" condition is determined by the state of the highest order digit in the input code. Feedback is provided by a 20-turn potentiometer driven from the output shaft. An experimental model was built using standard parts for which a schematic is given including component values for the output a-c amplifier preceding the motor. Test results show that conversion error with a 10-digit code is about 0.1%, maintainable within a range of -50 to +60C. Reliability and the absence of reactive elements are cited as further advantages of the design. Orig. art. has: 3 tables, 5 figures, and 6 formulas.

ASSOCIATION: none

SUBMITTED: 19Jul62 DATE ACQ: 01Jul63 ENCL: 00

SUB CODE: CP, CO NO REF SOV: 002 OTHER: 000

ch/ak
Card 2/2

SMIRNOV, N.A.; SMOLOV, V.B.

A good manual on digital computers. Priborostroenie no.9: 32 S '63. (MIRA 16:9)

1. Leningradskiy elektrotekhnicheskiy institut.
(Electronic digital computers)

L 17912-63 EWT(d)/FCC(w)/BDS ASD/ESD-3/APGC/IJP(C) Pg-4/Pk-4/Po-4
Pq-4 GG

ACCESSION NR: AP3005678 S/0146/63/006/004/0054/0062

AUTHOR: Smirnov, N. A.; Smolov, V. B.; Fomichev, V. S.; Chernyavskiy, Ye. A.

TITLE: Universal voltage-to-digital converter for d-c and a-c control systems

SOURCE: IVUZ. Priborostroyeniye, v. 6, no. 4, 1963, 54-62

TOPIC TAGS: code converter, volts-to-digits converter, control system, analog-to-digital converter, encoder

ABSTRACT: Results are reported of developing a universal voltage-binary-code converter intended for conveying input information to a digital computer from d-c and a-c sensors; the latter may have any frequency and phase. The compensation principle is used for the encoding method, the input voltage being balanced against a feedback voltage which is obtained from decoding a selected code in the register. The direction of every balancing step is determined by repeated tests

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ACCESSION NR: AP3005678

at the half-cycle of the input voltage. A circuit diagram is presented and discussed of an encoder capable of encoding d-c voltages, slow-varying voltages, and 400-cps amplitude voltages. It is intended for a special-purpose digital computer. Orig. art. has: 5 figures and 6 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Lenina (Leningrad Electrotechnical Institute)

SUBMITTED: 07Jan63	DATE ACQ: 06Sep63	ENCL: 00
SUB CODE: CP	NO REF SOV: 003	OTHER: 000

Card 2/2

SMIRNOV, Nikolay Alekseyevich, starshiy prepodavatel'; SMOLOV, Vladimir Borisovich, kand.tekhn.nauk, dotsent; FOMICHEV, Vladimir Stepanovich, assistent; CHERNYAVSKIY, Yevgeniy Aleksandrovich, kand.tekhn.nauk

Decoding "number-angle" converter with intermediate transformation. Izv. vys. ucheb. zav.; elektromekh. 6 no.5:597-604 '63. (MIRA 16:9)

1. Kafedra vychislitel'noy tekhniki Leningradskogo elektrotekhnicheskogo instituta.

(Electronic computers)

3

AM4037984 BOOK EXPLOITATION S/

Smolov, Vladimir Borisovich; Lebedev, Andrey Nikolayevich; Sapozhkov, Konstantin Andreyevich; Dubinin, YAkov Ivanovich; Smirnov, Nikolay Anisimovich; Bodunov, Vasiliy Pavlovich; Ugryumov, YEvgeniy Pavlovich; YAtsenko, Vladimir Pavlovich

Analog computers (Vy*chislitel'ny*ye mashiny* neprery*vnogo deystviya), Moscow, "Vy*sshaya shkola", 1964, 552 p. illus., biblio. 23,000 copies printed. Textbook for university students.

TOPIC TAGS: analog computer, automation, computer engineering

TABLE OF CONTENTS [abridged]:

Card 1/2

ACCESSION NR: AP4024686 S/0103/64/025/002/0250/0261

AUTHOR: Smirnov, N. A. (Leningrad); Smolov, V. B. (Leningrad)

TITLE: Method of synthesizing integro-differential voltage-code-type coding converters

SOURCE: Avtomatika i telemekhanika, v. 25, no. 2, 1964, 250-261

TOPIC TAGS: automatic control, coding converter, analog digital converter, integrodifferential converter, voltage to code converter, digital automatic control

ABSTRACT: The authors' method is based on the fact that a "follow-up"-type coding converter with a reversible counter in the digital-code-selection circuit may be regarded as a closed-loop dynamic system. The system is treated as continuous because its quantization intervals are assumed to be small (h-f sync pulses). The converter transfer function (input voltage to output code) is realized by introducing dynamic integro-differential sections into the forward and feedback circuits. Passive RC fourpoles, twopoles, or digital filters or their combinations in the sampled-data lines of the converter may be used as the above sections in

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L 56510-65 EWT(d)/EED-2/EWP(1) Pq-4/Pg-4/Pk-4/Pl-4 IJP(c) BB/GG

ACCESSION NR: AP5016773 UR/0286/65/000/010/0087/0088 44 43 B
681.142.621

AUTHOR: Grushvitskiy, R. I.; Smirnov, N. A.; Smolov, V. B.; Shmidt, V. K.; Fomichev, V. S.

TITLE: A precision voltage-to-code converter. 16 Class 42, No. 171182

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 87-88

TOPIC TAGS: voltage to code converter, computer component, computer technology, voltage divider

ABSTRACT: This Author's Certificate introduces a precision voltage-to-code converter constructed according to the method of sequential comparison with a single standard, subtraction, multiplication by two, and storage of the result. Conversion accuracy is improved by making the storage circuit in the form of two digital counting systems with balancing by digital places. The weight of each least significant digit in the counting systems is greater than the weight of the steps of the preceding least significant digit. The output of one of the counting systems is connected through a pulsed voltage divider to two comparison circuits for voltage

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ACCESSION NR: AP5016773

multiplication. The input voltage is fed to the second input of one comparison circuit while the second input of the other comparison circuit is connected to the output of the second digital counting system. This output is connected to the first input of a third comparison circuit, and to a fourth and fifth comparison circuit through a standard source for subtraction of the reference voltage. The second input of the third comparison circuit is connected to the output of the first counting system. The second input of the fourth and fifth comparison circuits are connected respectively to the input voltage and to the output of the first digital counting system.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova (Lenina) (Leningrad Electrical Engineering Institute)

SUBMITTED: 16Dec63 ENCL: 01 SUB CODE: DP

NO REF SOV: 000 OTHER: 000

Card 2/3

L 56510-65

ACCESSION NR: AP5016773

ENCLOSURE: 01

0

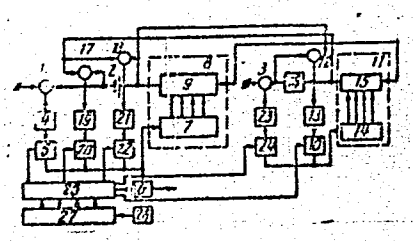

Fig. 1. 1, 3, 12, 17 and 18--comparison circuits; 2--standard source; 4, 13, 19, 21 and 23--amplifiers; 5, 6, 10, 20, 22 and 24--logic circuits; 7 and 14--control circuits for the digital counting systems; 8 and 11--digital counting systems; 9 and 15--code-to-voltage converters; 16--pulsed voltage divider; 25--control unit; 26--pulse generator; 27--synchronization unit

gah

Card 3/3

YATSUNSKAYA, O.I.; CHERNIKEVICH, L.I.; SMIRNOV, N.A.; GUTNOV, R.B.; ZUBREV, O.N.

Production of crumbling open-hearth furnace slag. Metallurg 10 no.5:20-21 My '65. (MIRA 18:6)

1. Metallurgicheskiy zavod "Serp i molot".

MOLCHANOV,R.S.; SMIRNOV,N.A.; OLEKHNOVICH,K.A., kandidat tekhnicheskikh nauk, redaktor; KAPLAN,M.Ya., redaktor; PUL'KINA,Ye.A., tekhnicheskiy redaktor

[Innovations in the production of reinforced concrete structures and parts: practice of builders in Leningrad] Novoe v proizvodstve zhelezobetonnykh konstruktsii i detalei; iz opyta stroitel'nykh organizatsii Leningrada. Leningrad, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 81 p. (MLRA 9:2)
(Reinforced concrete)

SMIRNOV, N.A.

Large brick-blocks for walls. Sbor.nauch.trudov LISI no.24:46-64 '56. (MIRA 15:3)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta.
(Brick walls)

MAMONTOV, Igor' Ivanovich,; KISELEV, Mikhail Vital'yevich,; SMIRNOV, N.A., inzh., nauchnyy red.; ROTENBERG, A.S., red. izd-va,; PUL'KINA, Ye.A., tekhn. red.

[Efficient methods for making reinforced concrete construction elements; practices in Leningrad] Ratsional'nye metody izgotovleniia zhelezobetonnykh konstruktsii; iz opyta Leningrada. Leningrad, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 81 p. (MIRA 11:11)

(Precast concrete)

SMIRNOV, Nikolay Aleksandrovich; BUDNIKOV, M.S., prof., doktor tekhn. nauk, retsenzent; KOZLOVSKIY, V.M., inzh., nauchnyy red.; KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Technology of building] Tekhnologiia stroitel'nogo proizvodstva. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 376 p. (MIRA 13:3)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Budnikov).
(Construction industry)

SMIRNOV, Nikolay Aleksandrovich; KOMAROVSKIY, M.F., inzh., red.; FREGER, D.P., izd.red.; BELOGUROVA, I.A., tekhn.red.

[Basic trends of further technical progress in construction in the 1959-1965 seven-year plan] Osnovnye napravleniia dal'neishego tekhnicheskogo progressa v stroitel'stve na predstoiashchee semiletie 1959-1965 gg.; stenogramma lektsii. Leningrad, 1960. 24 p. (MIRA 14:6)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
(Construction industry)

GAPEYEV, Vladimir Nikolayevich; SMIRNOV, N.A., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Forms and methods of spreading information on safety measures in construction] Formy i metody propagandy tekhniki bezopasnosti na stroitel'stve. Travmatizm i ego uchet. Pod obshchei red. N.A.Smirnova. Leningrad, Leningradskii Dom nauchno-tekhn. propagandy, 1960. 42 p. (Bibliotechka stroitelia po tekhnike bezopasnosti no.2) (MIRA 14:10)

(Building—Safety measures) (Building—Accidents)

MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Overall mechanization and automation at reinforced concrete products plants in Leningrad]Kompleksnaia mekhanizatsiia i avtomatizatsiia na zavodakh zhelezobetonnykh izdelii g. Leningrada. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1961. 20 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.4) (MIRA 15:8)

(Leningrad--Concrete plants)

SVYATSKIY, Pavel Stanislavovich, inzh.; YARMOLOVICH, Konstantin Yulianovich, inzh.; SMIRNOV, N.A., prof., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Methods of overall mechanization of the basic types of finishing work] Puti kompleksnoi mekhanizatsii osnovnykh vidov otdelochnykh rabot. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 20 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.14) (MIRA 15:7)
(Building---Details)

KRYLOV, Nikolay Alekseyevich, kand. tekhn. nauk; SMIRNOV, N.A., prof., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Electronic-acoustical, magnetic, and radio methods for quality control of materials, elements, and structures] Elektronno-akusticheskie, radiometricheskie i magnitnye metody kontrolia kachestva materialov, konstruktsii i sooruzhenii. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 21 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.8) (MIRA 16:5)
(Building--Quality control)

MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; VASIL'YEV, Yu.A., red.izd-va; GVIRTS, V.L., tekhn. red.

[Over-all mechanization of the production of hollow cylindrical reinforced concrete products; from the experience of "Barrikada" Factory] Kompleksnaia mekhanizatsiia proizvodstva pustotnykh tsilindricheskikh zhelezobetonnykh izdelii; opyt zavoda "Barrikada." Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 25 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.5) (MIRA 15:8)
(Pipe, Concrete)

LAKTYUSHKIN, Aleksey Aleksandrovich; YAKOVLEV, Petr Sergeyevich; SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V., inzh., red.; FOMICHEV, A.G., red. izd-va; GVIRTS, V.L., tekhn. red.

[Overall mechanization of sanitary engineering operations] Kompleksnaia mekhanizatsiia proizvodstva sanitarno-tekhnicheskikh rabot. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 28 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.12) (MIRA 15:8)
(Sanitary engineering)

NEKRICH, Ye.I.; ARANE, M.Yu.; SMIRNOV, N.A., prof., red.; SHILLING, V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Overall mechanization and automation in housing construction combines] Kompleksnaia mekhanizatsiia i avtomatizatsiia na domostroitel'nykh kombinatakh. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1961. 34 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.3) (MIRA 15:8)
(Leningrad--Precast concrete) (Apartment houses) (Automation)

PODBORSKIY, Leonid Yermolayevich, inzh.; SMIRNOV, N.A., prof., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Mechanization of the unloading and transportation of cement] Mekhanizatsiia razgruzki i transportirovaniia tsementa. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 36 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.7)
(MIRA 15:8)

(Cement--Transportation) (Loading and unloading)

GODES, Emmanuil Grigor'yevich; SMIRNOV, N.A., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Overall mechanization of preparatory operations in the building development of residential blocks]Kompleksnaia mekhanizatsiia rabot nulevogo tsikla pri zastroike zhilykh kvartalov. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1961. 37 p. (Bibliotechka stroitelia po kompleksnoi mekhanizatsii i avtomatizatsii stroitel'stva, no.10) (MIRA 15:8)

(Earthwork) (Foundations)

MAKAROV, Vladimir Ivanovich, kand. tekhn. nauk, dotsent; SMIRNOV, N.A., prof., red.; FREGER, D.P., red.izd-va; GVIRTS, V.L., tekhn. red.

[Overall mechanization and automation at concrete and mortar plants]Kompleksnaia mekhanizatsiia i avtomatizatsiia na zovodakh betonov i rastvorov. Pod obshchei red. N.A. Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 43 p. (Bibliotechka stroitelia po mekhanizatsii i avtomatizatsii stroitel'stva, no.2) (MIRA 15:8)
(Concrete plants) (Mortar) (Automation)

SMIRNOV, Nikolay Aleksandrovich, prof.; LEVCHENKO, Ya.V., inzh., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Basic tendencies in the development of the mechanization and automation of construction]Osnovnye napravleniia razvitiia mekhanizatsii i avtomatizatsii stroitel'stva. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1961. 46 p. (MIRA 15:8)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
(Construction equipment) (Automation)

SMIRNOV, N.A., dots., otv. red.

[The technology of precast structural elements and of building] Tekhnologiia sbornykh stroitel'nykh konstruktsii i stroitel'nogo proizvodstva; doklady na XIX nauchnoi konferentsii. Leningrad, 1961. 54 p. (MIRA 15:6)

1. Leningrad. Inzhenerno-stroitel'nyy institut. 2. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta(for Smirnov).
(Precast concrete construction)

SMIRNOV, N.A., prof.

[Drawing; reports of the 20th scientific conference] Grafika; doklady XX nauchnoi konferentsii. Leningrad, 1962. 29 p. (MIRA 16:1)

1. Leningrad. Inzhenerno-stroitel'nyy institut. Nauchnaya konferentsiya.

(Mechanical drawing)

TUZOV, Mikhail Sergeyevich, inzh.; SMIRNOV, N.A., prof., red.; FREGER, D.P., red. izd-va; GVIRIS, V.L., tekhn. red.

[Safety engineering in carrying out preparatory operations] Tekhnika bezopasnosti pri proizvodstve rabot nulevogo tsikla. Leningrad, 1962. 30 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Bibliotechka stroitelia po tekhnike bezopasnosti v stroitel'stve, no.6) (MIRA 16:8)

(Building--Safety measures)

MIKHAL'CHENKO, Mikhail Grigor'yevich, inzh.; OKUNEV, Nikolay Aleksandrovich, inzh.; KHUTORYAN, Naum Benitsianovich, inzh.; SMIRNOV, N.A., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Comprehensive mechanization and automation of plants manufacturing building materials of rock, gravel, and sand] Kompleksnaia mekhanizatsiia i avtomatizatsiia na predpriiatiiakh nerudnykh stroitel'nykh materialov; stenogramma lektsii. Leningrad, 1962. 30 p. (MIRA 15:3)

(Automation) (Building materials)

BAL'MAKOVA, Irina Karlovna, inzh.; SMIRNOV, N.A., red.; GRIGOR'YEVA, I.S., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Organization of transportation in the operational production lines of housing construction combines]Organizatsiia raboty transporta na tekhnologicheskikh liniiakh domostroitel'nykh kombinatov. Leningrad, 1962. 37 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'naia promyshlennost', no.8) (MIRA 15:9)
(Building) (Transportation)

AISTOV, N.N., prof., doktor tekhn. nauk; VASIL'YEV, B.D., prof., doktor tekhn. nauk; IVANOV, V.F., prof., doktor tekhn. nauk; SAKHNOVSKIY, K.V., prof., doktor tekhn. nauk; SHIFRIN, N.A., prof.; ORLOV, A.I., dots., kand. tekhn. nauk; SHIFRIN, S.M., prof., doktor tekhn. nauk; Prinimali uchastiye: AKIMOVA, L.D., kand. tekhn. nauk, dots.; SPIRIDONOVA, O.M., kand. tekhn. nauk, dots.; MAKUKHIN, V.L., nauchnyy red.; STAROVOYTOV, I.F., inzh., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[The history of building practices] Istoriia stroitel'noi tekhniki. [By] N.N.Aistov i dr. Pod obshchei red. V.F.Ivanova. Leningrad, Gosstroiizdat, 1962. 560 p. (MIRA 15:12)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Vasil'yev, Sakhnovskiy).

(Building)

GAPEYEV, Vladimir Nikolayevich, inzh.; SMIRNOV, N.A., prof., red.; PAPIYEV, V.R., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Problems of accident prevention in winter construction and assembly] Voprosy tekhniki bezopasnosti pri proizvodstve stroitel'no-montazhnykh rabot v zimnee vremia. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1962. 14 p. (Bibliotechka stroitelia po tekhnike bezopasnosti, no.8) (MIRA 16:3)
(Building--Cold weather conditions)

NIKITIN, Gennadiy Mikhaylovich, kand. tekhn. nauk; SMIRNOV, N.A., prof., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Safety measures in operating hoisting and conveying machines in construction] Tekhnika bezopasnosti pri ekspluatatsii pod"emno-transportnykh mashin v stroitel'stve. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1962. 33 p. (Bibliotechka stroitelia po tekhnike bezopasnosti, no.5) (MIRA 16:12)

(Hoisting machinery—Safety measures)
(Conveying machinery—Safety measures)

SMIRNOV, Nikolay Aleksandrovich, prof.; KRYLOV, N.A., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Objectives and prospects of the development of the construction industry in the U.S.S.R.] Zadachi i perspektivy razvitiia stroitel'noi industrii SSSR; stenogramma lektsii. Leningrad, 1963. 17 p. (MIRA 16:12)
(Construction industry)

SMIRNOV, Nikolay Aleksandrovich, prof.; PANIVAN, P.S., red.; GRIGOR'YEVA, I.S., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Safety engineering in working at construction sites] Tekhnika bezopasnosti pri proizvodstve rabot na stroitel'noi ploshchadke. Leningrad, Leningr. dom nauchno-tekhn. propagandy. 1963. 52 p. (Bibliotechka stroitelia po tekhnike bezopasnosti, no.9) (MIRA 16:6)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
(Building--Safety measures)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV, V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S.[deceased]; MELAMEDOV, N.K.; SERGEYEV, V.V.: Prinimali uchastiye: AMMOSOV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk, dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A., prof., red.; DNEPROVA, N.N., red.izd-va; PUL'KINA, Ye.A., tekhn. red.

[Technology of building] Tekhnologiia stroitel'nogo proizvodstva. [By] N.A.Smirnov i dr. Leningrad, Gosstroiizdat, 1963. 435 p. (MIRA 17:2)

BLOKHIN, Boris Nikolayevich; SMIRNOV, N.A., prof., retsenzent; SPIRIDONOVA, O.M., dots., kand. tekhn.nauk, retsenzent; CHERNOV, T.P., prof., retsenzent; PREDTECHENSKIY, V.M., prof., doktor tekhn. nauk, retsenzent; RUFFEL', N.A., dots., retsenzent; ZAYTSEV, A.G., prof., retsenzent; DROZDOV, A.G., inzh.; GALITSKIY, V.N., inzh., retsenzent; ZHELUDKOV, V.I., inzh., nauchn. red.; LYTKINA, L.S., red.; DASIMOV, D.Ya., tekhn. red.

[Technology of the construction industry] Tekhnologiia stroitel'nogo proizvodstva. Moskva, Gosstroiizdat, 1963. 263 p. (MIRA 17:1)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov). 2. Kafedra stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Spiridonova). 3. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva (for Chernov). 4. Moskovskiy inzhenerno-stroitel'nyy institut imeni V.V.Kuybysheva (for Predtechenskiy, Ruffel'). 5. Zaveduyushchiy kafedroy stroitel'nykh materialov Moskovskogo arkhitekturnogo instituta (for Zaytsev). 6. Glavnyy inzhener Moskovskogo arkhitekturno-planirovochnogo upravleniya (for Drozdov). 7. Direktor Moskovskogo domostroitel'nogo kombinata No.1 (for Galitskiy).

BRONNIKOV, Petr Ivanovich; SMIRNOV, N.A., prof., red.

[Experiemental construction of residential and public buildings made from three-dimensial elements] Eksperimental'noe stroitel'stvo zhilykh i grazhdanskikh zdanii iz ob"emnykh elementov. Leningrad, 1964. 25 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'nye materialy i konstruktsii, no.1) (MIRA 17:7)

BAD'IN, Gennadiy Mikhaylovich; SAMONOV, N.A., red.

[Equipment and measuring instruments for the dynamic testing of piling; work experience of the Leningrad Institute of Construction Engineers in cooperation with Trust No.101 of the Main Administration for Construction of Leningrad] Oborudovanie i izmeritel'naia apparatura dlia dinamicheskikh ispytanii svai; iz opyta raboty LISI v sodruzhestve s trestom No.101 Glavleningradstroia. Leningrad, 1964. 20 p. (MIRA 17:12)

VERIZHNIKOV, Sergey Mikhaylovich, kand. tekhn. nauk; SMIRNOV, N.A., prof., nauchn. red.; ROTENBERG, A.S., red.

[Housing construction enterprises; their present state and the prospects for their development] Domostroitel'nye predpriiatiia; sostoianie i perspektivy razvitiia. Leningrad. Stroiizdat, 1964. 280 p. (MIRA 18:1)

SMIRNOV. N. A.

Eucommia

Growing eucommia at the Novorossiysk forestry station. Leskhoz. 5 no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

1. SMIRNOV, N. A.

2. USSR (600)

4. Community Forests

7. Attention to collective farm wood lots. Les khoz. 5. No. 10. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SMIRNOV, N. A.

"The Growth and Development of the Seedlings of Scrub Wood Varieties in Relation to the Action of Lower Temperature on the Seeds." Cand Agr Sci, Voronezh Forestry Inst, Min Higher Education USSR, Voronezh, 1955. (KL, No 12, Mar 55)

SO: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defneded at USSR Higher Educational Institutions (15)

USSR / Forestry. Forest Cultures. K

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82229

Author : Smirnov, N. A.
Inst : Not given
Title : An Experiment in Deep Planting Poplar Cuttings

Orig Pub : Lesn. kh-vo, 1958, No 3, 83-84

Abstract : No abstract given

Card 1/1

SMIRNOV, N. A.

USSR/Agriculture Fertilizer

Card : 1/1

Authors : Smirnov, N. A.

Title : Fertilizing vegetable cultures with carbon dioxide in greenhouses and hotbeds

Periodical : Priroda, 43/7, 100 - 102, July 1954

Abstract : The effects of introducing CO_2 into the soil are cited with figures showing the percentages of increase in production for various vegetables. The author finds that CO_2 offsets the lack of light and heat. Directions are given as to the preparation of the CO_2 gas and its application. Table; illustrations.

Institution : ....

Submitted : ....

SMIRNOV, N.A.

Experiment in winter raising of tomatoes. Agrobiologiia no.2: 104-106 Mr-Ap '57. (MLRA 10:5)

1.Chelyabinskiy teplichno-parnikovyy kombinat.
(Tomatoes)

SMIRNOV, N.A.

Vegetable gardening in humid subtropics. Priroda 46 no.3:95-98 Mr '57. (MLRA 10:3)

1. Tepichno-parnikovyy kombinat "Izmaylovo" (Moskva).
(Vegetable gardening)

AUTHOR: Smirnov, N.A. SOV-26-58-8-24/51

TITLE: The Culture of Early Vegetables (Kul'tura rannikh ovoshchey)

PERIODICAL: Priroda, 1958, Nr 8, pp 97-100 (USSR)

ABSTRACT: The fruit and vegetable combine "Marfino" grows vegetables on a 42,000 m^3 farm. Heated hotbeds occupy an area of 3,000 m^2. The yearly production is 20,000 centners. Vegetables are preserved mainly in ice storehouses. The combine delivers greenhouse and hotbed products, mainly cucumbers, to Moscow. Research work is also conducted. In the culture of cucumbers, 18 different hybrids have been raised. The mushroom crop is harvested during a period when other vegetables are scarce and the space in the greenhouses cannot fully used. Special attention is paid to fertilizers. The magnesium content in the soil is considered to be too low. Fertilization with boron should also be increased. It has been shown by experience that the optimum of the temperature during winter is dependent on the available light. It is higher during sunny days than during cloudy weather.

Card 1/2 There are 3 photos.

SMIRNOV, Nikolay Alekseyevich; LEONOV, S., red.; SHLYK, M., tekhn. red.

[Garden under glass; practices in growing vegetables in greenhouses] Ogorod pod steklom; opyt vyrashchivaniia ovoshchei v teplitsakh. Moskva, Mosk. rabochii, 1963. 159 p. (MIRA 16:5)

(Vegetable gardening) (Greenhouse management)

SMIRNOV, N.A.

Let's introduce a practical trend into the school courses of biology. Biol. v shkole no.4:46-47 Jl-Ag '63. (MIRA 16:9)

1. Turovskaya vos'miletnyaya shkola, Ryazhskiy rayon Ryazanskoy oblasti.

(Biology--Study and teaching)

AUTHORS: Zlatoverkhovnikov, L. F., Candidate of Technical Sciences, Smirnov, N. A., Candidate of Technical Sciences SOV/154-58-4-14/18

TITLE: Records of the General Deformations of Hydraulic Port Installations in Sea Ports (Nablyudeniya za obshchimi deformatsiyami gidrotekhnicheskikh sooruzheniy v morskikh portakh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 4, pp 137 - 142 (USSR)

ABSTRACT: Port installation structures begin to deform even during construction. Hence it is necessary to start systematic surveying observations during this period. As early as 1947 the Soyuzmorproyekt of the Ministry of Merchant Marine of the USSR drafted the first regulations and instructions concerning surveying records, employing the experience collected in the Chernomorproyekt. In 1949 the first surveying observations of the hydraulic port installations of Leningrad, Tuapse (and of other ports) were started. Later on, such record work was

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extended to the hydraulic port installations of the ports of Poti, Novorossiysk, Batum, Taganrog, Zhdanov, and Odessa. In 1951 the instructions for the planned surveying records of the settling of hydraulic port installations were published. The instruction was later on revised on the basis of the experience collected. The difficulties encountered in direct measurements require a thorough study of the application of optical measuring methods. The Odessa Research Station of the TsNII has already started an investigation of the general movements of the pier Nr 10 in the port of Odessa. The inclinometer was designed by Engineer G.D.Shtromberg. The surveying observations showed that the recording of the general movements of port installations must be started immediately after construction has been completed. As the further recording of the movements falls to the competence of the respective port authorities, but is still carried out under the methodical supervision of the Research Station of the TsNII, new economical measuring instruments will have to be constructed. These

instruments should simplify surveying work but nevertheless maintain or even increase the accuracy of the measurements. Such surveying records of the deformations of hydraulic port installations under natural conditions are also of great practical importance in the efficient operation of sea ports. They may lead to a perfection of planning methods of hydraulic port installation constructions.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut Ministerstva Morskogo Flota SSSR (Central Scientific Research Institute of the USSR Ministry of Merchant Marine)

SMIRNOV, Nikolay Andreyevich, kand. tekhn. nauk; ZLATOVERKHOVNIKOV, Leonid Fedorovich, kand. tekhn. nauk; SKOBELING, L.V., red.; KLAPTSOVA, T.F., tekhn. red.

[Improving the technical operation of hydraulic structures in harbors]Uluchshenie tekhnicheskoi ekspluatatsii portovykh gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo "Morskoi transport," 1962. 90 p. (MIRA 15:9)
(Hydraulic structure--Maintenance and repair)
(Marine fouling)