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SANDLER, A.S.; SOKOLOV, N.G.

[Collection of automatic control systems for electric drives of machine tools] Sbornik skhem avtomaticheskogo upravleniia elektroprivodami metallorezhushchikh stankov. Izd.2., perer. i dop. Moskva, Mosk. energ. in-t, 1963. 31 p. (MIRA 16:10) (Machine tools--Electric driving)

(Automatic control)

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CIA-RDP86-00513R001652020003-2"

SOKOLOV, <u>Nikolar Georgiyevish;</u> KORENEVSKIY, A.N., retsenzent; LIGERMAN, I.I., red. [Principles of the design of electric drives] Osnovy konstruirovaniia elektroprivodov. Moskva, Energiia, 1965. 287 p. (MIRA 18:5)

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SOKOLOV, N.I. Geology DECEMSED CI 1961 recordo Center. GEOLDGY

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"Concerning the devision and in Defense of Professor Dedvalin's Method". Vestn. sovrem. v terin., 1929, No. 2.

CONCLEV, U. I. (Locturer), CIDURGY, I. A. (Professor), and VAYNTRAUB, A. M.

"The etiology of infertility in cattle in Leningrad oblast and some bases for its therapy and prophylaxis", (Assistant, Department of Obstetrics and Gynedology). Collected Works No. 14, of Leningrad Veterinary Institute USSR Ministry of Agriculture P 109, Sel'khozgiz, 1954.

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SOKOLOV, N.I., dotsent.

www.comercianisters.

Use of phytonc'des of onion and garlic in gynecological diseases. Veterinariia 31 no.2:51-52 F '54. (MLRA 7:2)

1. Leningradskiy veterinarnyy institut. (Phytoncides) (Genitourinary organs--Diseases)

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Use of conifer chlorophyll carotone paste for treating vaginitis and endometritis in cows. Veterinariia 32 no.2:60-61 F '55. (MIRA 8:3)

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1.Loningradskiy veterinarnyy institut.

(COWS--DISEASES) (VETERINARY MATERIA MEDICA AND PHARMACY)

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SOUDERV, N. T.

Sokolov, N. T.

"The etiology, therapy, and prophylaxis of sterility in cattle on the sovkhozes and kolkhozes of the Leningrad suburban area." Leningrad Veterinary Inst, Min Higher Education USSR. Leningrad, 1956. * (Dissertation for the Degree of Doctor in Sciences.)

* degree of Doctor of Veterinary Sciences

Knizhnaya Letopis' No. 25, 1956. Moscow.

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Name :	SOKOLOV, Nikolay Ivanovich
Dissertation:	Eticlogy, therapy and prophylaxis of sterility in cattle of sovkhozes and kolkhozes
Negree:	For Vet Sci
Affiliation:	<pre>[Not indicated]</pre>
Defense Date, Place:	14 Jun 56, Council of Leningrad Vet Inst
Certification Date:	20 Apr 57
Source:	FMVO 14/57

13571-72-111

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SOKOLOV, N.I., doktor veter.nauk

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Characteristics of the course of **pos**tnatal infection and septic endometritis in cows. Veterinariia 37 no.1:41-44 Ja '60. (MIRA 16:6)

l. Leningradskiy veterinarnyy institut. (Endometriosis) (Cows--Diseases)

APPROVED FOR RELEASE: 08/25/2000

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020003-2 SOKOLOV, N.I., doktor veterinarnykh nauk Treatment of cows with puerperal infection. Veterinariia 37 no.12: (MIRA 15:4) 48 D '60. 1. Leningradskiy veterinarnyy institut. (Veterinary obstetrics)

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STATISTICS AND DESCRIPTION

SOKOLOV, Nikolay Ivanovich; VAYNTRAUB, Aleksandr Moiseyevich [deceased]; POLYAKOV, P.Ya., red.; YAKOVLEVA, V.K., tekhn. red. [First aid in calving] Pervaia pomoshch' pri otelakh. Izd.2., dop. i ispr. Leningrad, Sel'khozgiz, 1961. 69 p. (MIRA 15:8) (Veterinary obstetrics) LUDSAL TISP 255

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SOKOLOV, N.I.

Diphyllobothriasis of predatory fishes. Veterinariia 41 no.9:66 (MIRA 18:4) S 164.

1. Starshiy veterinarnyy vrach Ivanovskoy oblastnoy veterinarnoy laboratorii.

DOLULUM, N. I.

242 (A)

Hor., Chita Hil. Hosp., -cl948-c49-. Cand. Modical Sci. Lt. Col., Med. Corps, -cl949-. <u>Medicine</u>. "Conduction Anosthesia of the Brachial Flower through the Posterior Scala Aperture," Vest. Mairurgii, 68, No. 3, 1948; "Operative Treatment for Congenital Hermia Corebri on the Forehead," Vest. Oto-rino-laringol., No. 2, 1949.

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 SOKOLCV, N. I.
 PA 17/49T97

USSR/Medicine - Anesthesia, Conduction Mar 48 Medicine - Anesthesia, Local and Regional

"Conduction Anesthesia of the Brachial Plexus Through the Posterior Scala Aperture," N. I. Sokolov, Chitinsk Mil Hosp, 4 pp

"Vest Khirurgii" Vol LXVIII, No 3

Explains disadvantages of Kulenkampf's method. Sokolov describes own method in detail. Has used it 130 times.

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Vduvanie vozdukha kak metod profila kfiki i lecheniya tugopodvizhnosti vanvanie vozannia nak metod profila kliki i ioenomija bugoputvibinosol v susta vakh posle travm. Vestnik khirurgii im. Grekova, 1949, No. 4, s. 31-33

SOKOLOV N. I. Operative treatment of battle injuries of peripheral nerves Khirurgiya 1949, 11 (48-54)

AND THE PROPERTY AND A STATE OF A DESCRIPTION OF A

The author reviews a number of operations of battle injury: 115 on the perlpheral nerves of the upper limb (22 on the brachial plerus and 1 on the cervical plexus), 79 on the peripheral nerves of the lower limb and 15 on the sympathetic nervous system. The procedures were as follows: neurolysis 114, suture 37, partial suture 39, neurectomy 4, periarterial sympathectomy 2, and ganglionectomy 13. In 63 cases there was major bone injury and in 14 cases major blood vessel injury. Trophic ulcers were present in 6 cases of sciatic palsy, contractures in 26 cases, and causalgia in 20 cases. The period between wounding and operation varied between $l_2^{\frac{1}{2}}$ months to 2 months after injury if there was no recovery of nerve function, except in brachial plexus and sciatic injury when the period was increased to three months. Seosis and severe limb contractures were contraindications, unless in the latter there was associated and marked causalgia. In cases of delayed primary suture three weeks was the usual interval. For treatment of causalgia the author inclines to operation, with emphasis on the exclusion of local nerve lesions such as division or scarring before turning to sympathectomy. Thus in 6 cases excision of a lateral neuroma and partial suture was successful in relieving symptoms. Periaterial sympathectomy was abandoned as useless for this purpose. Cervical and lumbar sympathectomy gave the best results; in 8 cases out

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Page 2

of 10 the condition improved considerably or was cured. Endoneurolysis performed in 5 cases on the sciatic nerve was found to be technically difficult and did not relieve pain. Mobilization of the nerve ends was used to overcome defects of up to 6 or 7 cm., but larger gaps were bridged by homotransplants in 3 cases and by an autotransplant in 1 case. When the sciatic nerve was damaged at its exit from the pelvis and the proximal fragment had retracted beyond reach, the superior gluteal nerve was sutured to the distal fragment. Neurolysis caused varying degrees of inprovement, either motor or sensory in 90% of cases, but resection of neuromata gave on the whole better results. In 2 cases of severe causalgia sub-arachnoid injection of alcohol at the levels of the affected nerve roots was found ineffective. The disposal of 105 patients was known; 51 returned to army duties, 48 were temporarily unfit and 6 were totally unfit. (This report gives no details of degrees of recovery, but only outlines results in general form.)

Zinovieff - World Medical Abstacts (IX, 8)

So: Neurology & Psychiatry Section VIII, Vol. 4, No. 1-6

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SOKOLOV, N.I. (L'vov)

Paragonal Para Sugara dan Spontaneous clonus of muscles of the abdominal wall as a symptom of spinal diseases. Klin. med. 32 no.8:71 Ag '54. (MLRA 7:10) (SPINE, diseases, manifest., clonus of abdominal wall) (ABDOMINAL WALL, diseases, clonus, as manifest. of dis. of spine)

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020003-2 SOMOLOV N.I., kandidat meditsinskikh nauk, L'vov, ul. Krupskoy, d. 12, 1. 10. Metal nails fit for irrigation for intramedullary nailing of long bones. Vest.khir. 75 no.5:122-125 Je '55. (MLRA 8:10) (FRACTURES, surgery, intramedullary nailing with irrigation) (IRRIGATION, in intramedullary nailing)

NEW ROOM OF THE OWNER

SOKOLOV, N.I., kandidat meditsinskikh nauk; L'vov, ul. Krupskoy 12, KW.HO.
Ligature holders. Vest.khir.75 no.6:135-137 Jl '55.(MLEA 8:10) (SUNGMENT, OFERATIVE, appratus and instruments case for ligatures) (SUTURES ligatures, spherical & cylindrical cases)

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Sokolov,	N.I.
USCR/Chemi	cal Technology. Chemical Products I-26 and Their ApplicationSynthetic fibers
Abs Jour:	Ber Zhur-Khiniya, No 3, 1957, 10096
Author : Inst :	Angelov, I. I. and <u>Sokolov</u> , N. 1.
Title :	Recgents On the Utilization of Perchloroethylene Filters in the Production of Chemical Recgents.
Orig Pub:	i insta khin, reaktivov, 1956, NO 21,
Abstract:	Perchlorethylene filters are suited for the production of corrosive chemical reagents because of their chemical incrtness which eliminates the contamination of the solutions. At 90-950 perch- loroethylene is not affected by long contact with aque regia, melanzh /TH: presumably a mixture of reagents/, H ₂ SOM, HNO ₂ , HCL, alkaline solutions solutions of all concentrations, various salts,
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SOV-120-58-1-2/43

AUTHORS: Kondrashev, L.F., Kurashov, A.A., Linev, A.F., Sidorov, V.A., Sokolov, N.I. and Khaldin, N.N.

- TITLE: A Spectrometer for Fast Neutrons (Spektrometr bystrykh neytronov)
- PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 17-21 (USSR)
- The measurement of the fast neutron spectrum is one of the most difficult problems of experimental nuclear physics. ABSTRACT: The most common method employed in neutron spectroscopy in the energy region of a few MeV is the method of proton recoil. The measurement of the neutron spectrum is reduced to the measurement of the spectrum of the recoil protons which are produced by the neutron beam in a specimen containing hydro-There are a number of methods of measuring the proton spectrum. One of these is the nuclear emulsion method but gen, this is very time-consuming and therefore not always convenient. The other methods employ coincidence circuits. Such a system is usually called a "telescope". These telescopes can be used in two ways. In the first method one measures the range of the protons in special absorbers between the counters and in the second method one measures the amplitudes Card 1/3 of the pulses from a scintillation counter which is the last

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SOV-120-58-1-2/43

A Spectrometer for Fast Neutrons.

counter of a telescope. The first of these was used in the present work. The telescope (Fig.1) consists of 4 proportion-al counters. A polyethylene "radiator" is placed in front of the first counter and two sets of aluminium absorbers are used to measure the range of recoil protons in aluminium. The first and main set of absorbers is placed in front and the third counter and the second set of filters in front of the fourth one. The first, second and third counters are in coincidence and the fourth in anti-coincidence. Thus one records recoil protons formed in the radiator and whose path ends before the fourth counter. An estimate of the proton loss due to multiple scattering was made, using the curves of Dickinson and Dodder (Ref.2). The figure obtained for this loss was less than 5% of the recoil protons. A photograph of the telescope is shown in Figs.2 and 3. The telescope can be used in studying not only neutrons but also charged particles. The spectrometer was used to study the reaction T(p, n) He³ for proton energies between 7 and 12 MeV. The neutrons were obtained at a target of a 1.5 m.

Card 2/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020003-2 A CONTRACTOR OF SOV-120-58-1-2/43 A Spectrometer for Fast Neutrons. The derived neutron spectrum at zero angle for cyclotron. The derived neutron spectrum at zero angle for the above reaction is shown in Fig.5. The following persons are thanked for their cooperation: N. A. Vlasov, S. P. Kali-nin, A. A. Shubin and L. N. Samoylov. There are 5 figures, no tables and 6 references, of which 2 are English and 4 Soviet. SUBMITTED: June 19, 1957. 1. Neutron spectrum analyzers--Equipment 2. Neutron spectrum analyzers--Performance 3. Neutron spectroscopy

Card 3/3

"APPROVED FOR RELEASE: 08/25/2000

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87373 5/120/60/000/004/012/028 E032/E414

Kondrashev, L.F., Rybin, S.N., Sokelov, N.I. and 21,2200 AUTHORS : Khaldin, N.N.

Thin Vacuum-Tight Windows

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.4, pp.102-105 In nuclear reaction studies it is frequently necessary to have thin vacuum-tight windows. The present paper describes some of the designs of such windows which were used in experiments on a 1.5 m cyclotron in which these windows were used for gas targets, The simplest solution of this vacuum chambers and other devices. problem which ensures that the thin window is in a vacuum-tight contact with the body of the apparatus is to solder the window to However, this the body or to attach it with a suitable adhesive. leads to a certain amount of contamination of the evacuated region during the soldering process and the contamination is difficult to In the case of soldering, a further difficulty is encountered since it is difficult to attach the window uniformly As a result, the thin window is nonuniformly loaded when the apparatus is evacuated. The heating of the material of the window during soldering may lead to nonuniform

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Thin Vacuum-Tight Windows

changes in its mechanical properties which are also undesirable. and non-demountable designs present difficulties when it is desired to replace the windows. Fig.l (1 - window, 3 - thin foil, 4,5 ~ rubber packing) shows a demountable form of a window in which the thin foil has a cylindrical form and vacuum tightness is ensured by rubber packing. With a gas target of 5 cm in diameter. window height of 1.2 cm and window length along the circular periphery of 9 cm, an 8μ thick iron foil withstood pressures in With a gas target 10.6 cm in diameter and two windows of $1.7 \text{ cm} \times 5 \text{ cm}$ and three windows 2 to 3 cm in diameter. a 30 μ copper foil withstood pressures up to 1.5 to 2 atm. type of window was used by Bogdanov et al (Ref.1) in their studies of the proton spectra of the reaction $He^4 + d$ at 30°. Fig.2 (1 - mica plate 10 µ thick, 4 rubber packing) shows another type of target in which the window is plain and consists of a 10µ thick mica plate maintained in position by brass grids on either side. The transparency of this arrangement was about 65%. The window is made vacuum tight by rubber packing. A plane window

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Thin Vacuum-Tight Windows

designed for working pressures up to 10 atm is shown in Fig.3. Here again, the foil 3 forming the wall of the window is supported on a brass grid 4 having a transparency of 70%. Rubber packing ensures vacuum tightness and $30\,\mu$ copper foils and This type of window 10 µ iron foils were used with this design. was used by Bogdanov et al (Ref.3) in their studies of the polarization of neutrons produced in the T(p,n)He³ reaction. Fig.4 shows a similar window in which the foil 1 is supported by a tungsten grid 2 made of 0.2 mm diameter wire. Fig.5 shows a design of a thin window used with a β -spectrometer. The cylindrical wall of the window 3 was made from aluminium ribbon This 0.5 mm thick; rubber packing ensures vacuum tightness. window was used by Vlasov and Rudakov (Ref.4) in their studies of the angular $\beta-\gamma$ correlation in the case of Bal39. Finally, Fig.6 shows the design of a gas target with a plane, thin wall 3 which was used by Bogdanov et al (Ref.5) in their studies of the spectrum of fast neutrons produced in the bombardment of deuterium by deuterons. Here a platinum foil 30 µ thick is The foil is separated by a grid of tungsten soldered to the body. Card 3/6

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SOKOLOV, N.I., aspirant-zaochnik

Using the theory of matrices to solve problems of adjusting photogrammetric nets. Trudy MIIGAIK no.49:75-81 '62. (MIRA 16:6)

1. Kafedra fotogrammetrii Moskovskogo instituta inzhenerov geodezii, aerofotog"yemki i kartografii. (Matrices) (Aerial photogrammetry)

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ACCESSION NR: AP4033108	S/0120/64/000/002/0061/0063
AUTHOR: Lamunin, V. I.; Rud Khaldin, N. N.	akov, V. P.; Serikov, I. N.; Sokolov, N. I.;
TITLE: Vacuum scatter chambe	r for studying charged-particle reactions
	ksperimenta 7 no. 2, 1964, 61-63
TOPIC TAGS: scatter chamber, particle reaction, particle scatt	vacuum scatter chamber, nuclear measurement, ering
lower lid 2, and upper movable is graphite diaphragms 4 and 5, pa set of tantalum diaphragms. Th	(see Enclosure 1) consists of a steel housing 1, lid 3. The primary particle beam, restricted by sses the filter chamber 6 and is collimated by a ten, the beam strikes the target and goes into the 7 are remote-operated by ShI-11 step-by-step inside the filter chamber. Diaphragms 8 and 10
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belong with the collimator, while diaphragms 9 and 11 remove fringe particles. Detectors are fastened to the movable lid 3 by means of a nipple 15 which is positioned at an angle of 10° from the central plane of the chamber. The recording angle can be varied within $10^{\circ}-170^{\circ}$ without disturbing the vacuum. Remote control is provided for the detector position, target replacement, and filter changes in the primary and secondary beams. Orig. art. has: 2 figures.

ASSOCIATION: none

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parameters of the projected automatic control system. In the stage of synthesis (Chapters IV-X, XIV), the desired transfer tion is determined which satisfies each of the following quali criteria separately, or several combined simultaneously: contr order of astatism, magnitude of overshooting, error factors, v of the dynamic error, minimum root mean square error, etc. for various types of control and input signals applied to the meas element and the controlled system. In the second stage (Chap XI), the magnitudes of the displacement, the velocity, and the ation of the output coordinates of the actuator are determined accordance with the desired transfer function of the system an of the controlled system, then the required power of the actua the transfer relationship of the reduction gear are determined known loads, including nonlinear loads. In the third stage (C XII-XVII), the total structural design of the projected system amplification factor of the system in open state, and the trans function of the automatic control system in closed state are of mined. The corresponding system of equations derived here is mathematically solvable. The second and third stages of this are self-contained. If the desired transfer function of the and parameters of the synthesized system. This book is inten-	ty ol time, alue uring ter acceler in d that tor and for hapters n, the isfer leter- always method system lesign

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engineers and technical workers engaged in designing au systems and should be useful to advanced undergraduate students.	itomatic control and graduate
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CONCEPT, I. I.

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Docent, Noncow Energetics Inst. in. V. N. Molotov, -cl949-. Cand. Technical Sci. "Construction and Use of Conglex substitution Systems in Complex Mon-Sympothical Scientits, ' Maktrichestvo, No. 8, 1949.

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Riectric Resistence

"sing non-linear resistances for increasing the stallity of eleiters for symplerenous generators. Not. st. 23 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. ICLASIFIED

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SOKOLDV, Ni. I.

On 31 May 1946, at the Power Engineering Institute imeni Molotov, defended his dissertation on "The Elements of Calculating Short-Circuit Currents in Internal Breakdown of Asynchronous Motors". Official opponents -Doctor of Technical Sciences Professor D. A. Gorodskiy, and Candidate of Technical Sciences Docent V. L. Fabrikant.

So: Elektrichestvo, No 4, April 1947, pp 90-94 (U-5577, 18 February 1954)

Notheds were presented for calculating certain complex cases of nonsymmetry in asynchronous motors. Cases of series and parallel nonsymmetry were investigated by means of matrical algebra using the mithods of breaking down the resistances to symmetrical components and circuits of all series members through self-inductive resistances. The method was illustrated with examples of analytic calculations and of calculations on direct-current panels. The determination of reactive resistances of a motor was also investigated for individual portions of the winding. It was found possible to discover, in the curve of the ampere windings of the air gap, harmonics of a wavelength equal to the full internal diameter of the stator, as well as harmonic multiples of these.

The use of matrical algebra was demonstrated for building equivalent circuits. A method was worked out for calculating supplemental harmonics in multipolar machinery, and the effect of the rotor on the harmonics of leakage in the air gap were examined.

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SOKOLEN, N.L AID P - 3258 : USSR/Electricity Subject Pub. 27 - 13/25Card 1/2: Khachaturov, A. A., Eng., and N. I. Sokolov, Kand. Tech. Sci., Authors Moscow : Automatic reclosure without controlling synchronism Title : Elektrichestvo, 9, 64-67, S 1955 Periodical The authors present the results of experiments with automatic Abstract : reclosure of two parts of a power system consisting of several steam electric power stations, without controlling for synchronism. Tests were made with values of transmitted capacity ranging from zero to the maximum possible and with disconnection periods varying from 1 to 6.4 sec. (see table). In all these tests normal operating conditions were reestablished without asynchronous motion except for the most difficult conditions of 6.4 sec of interruption at the highest transmitted capacity. Synchronous machinery were returned to synchronism in the first cycle of swinging. Voltage drops were of short duration. One table, 5 diagrams and

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	st v o, 9, 64-67, S 1955	AID P - 3258
Card 2/2	Pub. 27 - 13/25	
	oscillograms, 1 Soviet referenc	e, 1950.
Institution	n : None	с.
Submitted	: N 26, 1954	

SOEDLOV, N.I., kandidat tekhnicheskikh nauk. Muprovinate analytic method used for calcestiles transients in Theony systems of automatic control. Trudy Lil 10, 75:73-102 '57. (Automatic control) (MIRA 10:6) (MLRA 10:6) (Transients (Electricity))

1.0

SOEOLOV, M.I., kandidat tekhnicheskikh nauk: MEDVEDEV, B.P., kandidat tekhnicheskikh nauk.
"Operation of asynchronous electric motors" by I.A. Syromiatnikov. Reviewed by N.I. Sokolov, B.P. Medvedev, S.A. Ul'ianov, Elektrichestro on 0.1:95-96 Ja '57. (MERA 10:2)
1. Kafedra "Elektricheskiye stantsii "Moskovskogo Energeticheskogo instituta im.Molotova. (Blectric motors, Induction) (Syromiatnikov, I.A.)

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APPROVED FOR RELEASE: 08/25/2000

PA - 3100 SOKOLOV, N.I., cand. tech.sc. Steady-State Stability of a Transmission System with Regulated AUTHOR: TITLE: Synchronous Compensator at the Sectionalizing Substations. (Staticheskaya ustoychivost' peredachi s reguliruyenyme sinkhronnymi kompensatorami na promezhutochnykh podstantsiyakh, Russian) Elektrichestvo, 1957, Nr 5, pp 25-30 (U.S.S.R.) PERIODICAL: Reviewed: 7 / 1957 Received: 6 / 1957 The experiments carried out in 1937 by LEBEDEV concerned only an ABSTRACT: ideal regulation and were incomplete. In the last few years, however, investigations have been carried out in the Central Scientific Eleotrotechnical Research Laboratory of the MRS. They showed that for the increase of electrical transmission output for further transmission it is technically useful to employ intermediate synchronous compensators. Their application is particularly useful if power is to be taken off at intermediate points of the line. The set up of the substations does not become more complicated through the use of synchronous compensators and in most cases it does not become at all necessary to set up additional transformers. The position of the synchronous compensators and their power must be defined on the basis of technical and scientific considerations. The synchronous compensators at the intermediate substations can work with idle Card 1/2Cont. See les Electroteck. Laborators men. Electristations

APPROVED FOR RELEASE: 08/25/2000

KALNYSHEV, M.V., kapitan, voyennyy letchik-instruktor pervogo klassa;
<u>SOKOLOV, N.I.</u>, leytenant, voyennyy letchik tret'yego klassa;
MALENEV, V.A., leytenant, voyennyy letchik tret'yego klassa;
UROZD, M.I., leytenant, voyennyy letchik tret'yego klassa

We support this project. Vest.Vozd.Fl. no.2:84-85 F '60. (MIRA 13:7) (Flight training)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020003-2

N. IOKOLOV SOV/3397 Some Methods of Calculating (XCHAXX) Automatic Control Systems and their Components; Leningrad, 1959, 123p.* Sokolov, N.I., Candidate of Technical Sciences. Analytical Method of Approximate Calculation of Transients in Certain Nonlinear Systems 27 of Automatic Regulation The author presents a method of calculating transients in systems of automatic regulation containing nonlinear components with a convinuous static characteristic of the saturation type. The author claims that this method, compared with the methods developed by Ya. Z. Tsypkin and B.N. Naumov, gives a much smaller error, which increases integration interval and, consequently, reduces calculation time. In order to apply the author's method, conditions permitting the separation of the nonlinear components, whose characteristics can be given in analytical or in graphical form, must be present. 38 Bibliography Sokolov, N.I., Candidate of Technical Sciences. Approximate Grapho-Analytical Method of Determining Amplitude-Phase Characteristics From Transient Functions The author describes the method in which transient functions were obtained Trudy, vyp 112, Moscow Aviatsionnyy in-ta im. Sergo Ordzhonikidze experimentally

APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, N.L. SOV/3605 BOOK EXPLOITATION PHASE I Kolosov, S.P., N.P. Kolpakova, N.I. Sokolov, A.K. Ter-Akopov, N.M. Tishchenko, and N.P. Udalov Rukovodstvo po proyektirovaniyu elementov i sistem avtomatiki; posobiye po kuršovomu i diplomnomu proyektirovaniyu, vyp. 3 (Manual on Designing Automation Systems and Components; Handbook for Term and Degree Projects, No. 3) Moscow, Oborongiz, 1959. 200 p. (Series: Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze) Errata slip inserted. 12,500 copies printed. Sponsoring Agency: R.S.F.S.R. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Ed. (Title page): B.N. Petrov, Corresponding Member, USSR Academy of Sciences, Professor; Ed. (Inside book): I.L. Yanovskiy, Engineer; Ed. of Publishing House: M.S. Anikina; Tech. Ed.: V.P. Rozhin; Managing Ed.: A.S. Zaymovskaya, Engineer. Thistextbook is intended for term and degree projects of students in PURPOSE: Card 1/4

APPROVED FOR RELEASE: 08/25/2000

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BORMARY, N. T., VENIKOV, V. A., GERTSENBERG, Grigorly R., KOSTENKO, M. F., NEYMAN, L. R., BOYALOV, S. A.,

A STATE AND A STA

"Excitation control of synchronous machines in power systems of the Soviet Union"

report to be submitted for Intl. Conference on Large Electric Systems (CIGRE), 18th Biennial Session, Paris, France, 15-25 Jun 60.

APPROVED FOR RELEASE: 08/25/2000

Screets Æ SOV/4607 PHASE I BOOK EXPLOITATION Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze Nekotoryye voprosy analiza i sinteza sistem avtomaticheskogo regulirovaniya; sbornik statey (Problems in the Analysis and Synthesis of Automatic Control Systems: Collection of Articles) Moscow, Oborongiz, 1960. 74 p. (Series: Its: Trudy, vyp. 121) Errata slip inserted. 6,150 copies printed. Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya ESFSR; Mcskovskiy ordena Lenina aviatsionnyy institut im. Serge Ordzhonikidze, Ed. (Mitle page): B.N. Petrov, Corresponding Member, Academy of Sciences USSR, Bector of Technical Sciences, Professor; Managing Ed.: A.S. Zaymovskaya, Engineer; Ed. (Inside book): V.M. Tokar'; Tech. Ed.: I.M. Zudakin. This collection of five articles is intended for scientific, engineer-PURP(SE: ing and technical personnel at plants, design offices and scientific research institutes, and for teachers and students of advanced courses at schools of

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higher education.

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CIA-RDP86-00513R001652020003-2

Fretlems in the Analysis and Synthesis (Cont.)

SOV/4607

COVHEACE: The articles discuss procedures for synthesizing linear automatic control systems, analyzing free oscillations of linear systems with variable parameters, calculating the design parameters of a ferroresonant circuit in order to obtain a relay action, and investigating the stability of linear and some nonlinear systems by using the energy method. The method for the synthesizing of systems makes it possible to determine the desired amplification factor of the system in the open condition, and the layout and parameters of parallel compensating devices and their connection, so as to satisfy the technical requirements imposed on the characteristics of the transient process. Some of the articles in the collection develop existing methods, while others present new methods for investigating automatic control systems with variable parameters. The methods presented may be used for the solution of a number of problems in the theory of cscillations of linear and nonlinear systems. Special consideration is given to the application of methods for the construction of approximate representations of the general solution of the equation of free oscillations. No personalities are mentioned. There are 16 references, all Soviet.

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TABLE OF CONTENTS:

Foreword

Sokolov, N.I. [Candidate of Technical Sciences] Some Problems in the Selection of Design Configurations and Parameters of Aircraft Control Systems 5 Card 2/3

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SOECLOV, N.I., kand.tekhn.nauk, dotsent

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142 PT

Variable-polarity excitation of synchronous reactive power compensators for operation which involves consumption of reactive power. Elektrichestvo no.5:28-31 My '60. (MIRA 13:9)

Moskovskiy energeticheskiy institut.
(Electric machinery, Synchronous)

APPROVED FOR RELEASE: 08/25/2000

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1 VERIKOV, V.A., doktor tekhn.nauk; GER SENBERG, G.R. kand.tekhn.nauk; KOSTENKO, M.P., akademik; NEYMAN, L.R.; SOVALOV, S.A., kand.tekhn. nauk; SOKOLOV, N.I., kand.tekh.nauk Strong regulation in electric systems. Elek.sta. 31 no.6:43-49 Je 160. (MIRA 13:7) 1. AN SSSR (for Kostenko). 2. Chlen-korrespondent AN SSSR (for Neyman). (Electric power distribution) (Voltage regulators) 313 816-2 AND REAL COM

APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, N.I., kand.tekhn.nauk

Questions about the selection of structural networks and parameters of controllers of aviation equipment. Trudy MAI no. 121:5-30 '60. (MIRA 13:10) (Automatic control) (Aeroplanes--Equipment and supplies)

APPROVED FOR RELEASE: 08/25/2000

EALASHOV, M.A.; VORONKOV, B.S.; YELAGIN, Ye.B.; KISELEV, L.N.; KOLOSOV, S.P.; LEONT'YEVA, V.P.; NEFEDOVA, V.I.; STROMILOV, V.M.; SOKOLOV, N.I.; TISHCHENKO, N.M.; UDALOV, N.P.; PETROV, B.N., akademik, red.; GRIGORASH, K.I., red. izd-va; ROZHIN, V.P., tokhn. red.

> [Handbook on the design of components and systems of automatic control; a manual for the preparation of course and diploma projects] Rukovodstvo po proektirovaniiu elementov i sistem avtomatiki; posobie po kursovomu i diplomnomu proektirovaniiu [By] M.A.Balashov i dr. Pod red. B.N.Petrova. Moskva, Gos. nauchno-tekhn. izd-vo Oborongiz. No.4. 1961. 311 p. (NIRA 15:3)

1. Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze. (Automatic control) (Electronics)

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SOKOLOV, N.I., kand.tekhn.nauk, dotsent (Moskva); GUREVICH, Yu.Ye., inzh. (Moskva); KHVOSHCHINSKAYA, Z.G., inzh. (Moskva)

Use of analog computers for simulating a system with multiple generators. Elektrichestvo no.5:1-8 My '61. (MIRA 14:9) (Electric network analyzers) (Electric power distribution)

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APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020003-2

16:8000 (1031, 1132, 1329)

32060 \$/024/61/000/006/008/019 E140/E335

AUTHOR Sokolov, N.I (Moscow)

TITLE On the synthesis of higher-order astatic systems

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PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk Energetika i avtomatika no. 6, 1961, 60 - 66

TEXT At the present time partially invariant dynamic systems (λ -order astatism, $\lambda \ge 2$) are constructed in the form of "double-channel" systems, although it has been demonstrated that such systems may be constructed in the form of "singlechannel" λ -order astatic dynamic systems with branches composed of parallel-connected integrating and amplifying branches. These circuits are very difficult to design and the present article gives a method for the synthesis of single-channel λ -order astatic control systems, permitting the required results to be obtained by means of ordinary internal feedbacks, easily designed and realized. The starting point of the method is an uncorrected control system, consisting of the functionally necessary elements (sensitive element, amplifier, controller). Card 1/5

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On the synthesis of

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in which it is necessary to realize λ -order astatism and transient duration not exceeding a specified time limit. The production of the system is to be realized by the introduction of initial feedbacks. The initial system has a transfer spectro with an ath-degree denominator. The λ -order astatism is obviant from the degree denominator. The λ -order astatism is obviant from the technical conditions by a transfer function with makes not of not less than (λ -1)st degree. To introduce with makes not of not less than (λ -1)st degree. To introduce with makes not of not less than (λ -1)st degree. To introduce with makes not of not less than (λ -1)st degree. To introduce with makes the degree of the denominator by the same amount lie. To the cose the degree to $u + \lambda - 1$. The distribution of prios in the system is adopted according to the condition of system. Thus fixes the values of the coefficients in the most of transfer function. The normalized transient response is that duration input is then examine to see if the transient function is satisfied. If necessary the time scale can be

corrected. The transfer function of the corrective circuit is found by digebraic manipulation and the means for its physical follow cost distusted. The transfer function is decomposed into control constitute to possibility realization is somewher ef-

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APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020003-2

2000 S/024/61/000/006/008/019 D140/E335 simple circuits. A numerical example is given for obtaining fourth-order astatism. There are 3 figures and 3 Soviet-bloc references. SUBMITTED: July 15, 1961

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020003-2"

CIA-RDP86-00513R001652020003-2

10 1240 W. 2 191 AUTHOR: TITLE:

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E140/E435 Sokolov, N.I., Candidate of Technical Sciences Determination of the transfer function of an automatic control system satisfying given requirements on the stabilization regime

33193

s/535/61/000/139/005/009

SOURCE: Moscow. Aviatsionnyy institut. Trudy. no.139. 1961. Voprosy avtomaticheskogo regulirovaniya dvizhushchikhaya ob"yektov. 108-118

TEXT: If we distinguish between the structures of automatic control systems in the "control" regime, where the output variable is to follow the variations of an input variable, and the "stabilization" regime, where the output variable is to be stabilized [Abstractor's note: With respect to a fixed reference?] against the influence of external perturbations, certain differences in the treatment of the two cases are possible. The author introduces for the latter case an equivalent control signal which, for a step function of the perturbation he approximates in the form of a second degree function. The extension to arbitrary perturbations is accomplished by means of

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CIA-RDP86-00513R001652020003-2

SOKOLOV, N.I., kund.tekhn.nauk Operational stability of asynchronous motors with significant is external resistance and parallel connected static condensers. Elek.sta. 32 no.6:43-47 Je '61. (MIRA 14:8) (Electric motors, Induction) (Electric power distribution)

APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, Nikolay Ivanovich, inzh.; MASHKINA, A., red.; POKHLEBKINA, M., tekhn. red. [Service station]Stantsiia tekhnicheskogo obsluzhivaniia. Moskva, Mosk. rabochii, 1962. 123 p. (MIRA 15:12) 1. Upravlyayushchiy Stupinskim oporno-pokazatel'nym otdeleniyem "Sel'khoztekhnika" (for Sokolov). (Stupino (Moscow Province) -- Service stations) Ň

APPROVED FOR RELEASE: 08/25/2000

SOXOLOV, N.I., VENIKOV, V.A., GHJZDEV, I.A., KUCHUMOV, A. LUGINSKIY, YA.N.,

"Analogue computer application for analysis of transient processes in electrical systems."

Report to be submitted for the 19th Biennial Session, Intl. Conf. on Large Electric Systems(CIGEE), Paris, France, 16-26 May '62.

VENIKOV, Moscow Power Engineering Inst. im V.M. Molotov SOKOLOV, """" GRJZDEV, Leningrad Polytechinal Inst. im M.I. Kalinin KUCHUMOV, none given LUGINSKIY, All-Union Scientific Research Inst. Electro Power Engineering

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/6,80,90 (103 AUTHOF::	1,1132,1329) Sokclov, N.I. (Moscow)	35316 S/103/62/023/002/002/015 D230/D301	
TITLE:	Synthesis of automatic cont	trol systems with random	
	actions. I		
PERIODICAL:	Avtomatika i telemekhanika, 138 - 147	, v. 23, no. 2, 1962,	
is discussed ble elements sible; the s mials of bot fer function determined of tism, minimut tion of tran *nominator an rected a,c,s	without which the indirect- tructural design is proposed h the numerator and the denc are formulated. 2) The trar n the basis of operational r m root-mean error, permissib signt processes. The orders	of functionally indispensa- -action operation is impos- d and the orders of polyno- ominator for the system trans- nsfer function of a.c.s. is requirements, order of asta- ble over-control and dura- of the polynomials of the ansfer function for the cor-	t
Card 1/3 #numerator (c	hîslitel')		

Synthesis of automatic control ...

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the numerator and the denominator for the transfer function of the selected uncorrected system and on the form of the transfer function, describing the compensating elements. The orders of polynomials of the "nominator and the denominator of transfer function for the uncorrected a.c.s. cannot be changed arbitrarily. Further, the orders and the polynomial coefficients of both the *nominator and the denominator of the transfer function for the compensating elements can be varied within wide limits; as a function of this, the order of polynomials of both the * nominator and the denominator of the transfer function for the corrected a.c.s. will vary within wide limits. In order to obtain the desired transfer function of the a.c. s. it is first necessary to formulate the normalized transfer function; this function has known laws of distribution of zeros and poles, with the least pole equal to unity. The order values of the polynomials of the initial normalized transfer function is made equal to those of the transfer function for the corrected system. The main difficulty in determining the desired transfer function is the setting-up of the functional relation between the selected criterion for the system and the time-scale coefficient for various

Card 2/3 * numerator (chislitel')

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3454 S/103/62/023/003/006/016 D201/D301

16.8000 (1031, 1122, 1329) Sokolov. N.I. (Moscow)

AUTHOR:

Synthesis of automatic servo-systems in the presence of random disturbances II. Determining the required transfer function of an automatic servo-system in the TITLE: presence of random stationary disturbance

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 3, 1962, 331 - 341

TEXT: In the second part of his work the author suggests a method of determining the desired transfer function of the follow-up system from the condition of satisfying the permissible r.m.s. error, in the case when the measuring element is acted upon by a random stationary disturbance. Such a system must filter out this disturbance with a permissible r.m.s. error ϵ_1 . Taking into account the degree of polynomials of the numerator and denominator of the trans- Xfer function of the non-corrected follow-up system and the requirements as to the order of the astaticism of the system - an initial Card .1/2

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Synthesis of automatic servo- ...

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normalized transfer function $K_n(p)$ is chosen. It is necessary to determine the required transfer function satisfying the set requirements. When a disturbance acts at the system input and it is required that the system be insensitive to it, it should be as inert as possible. If this is the case, the duration of the correlation function $R_n(is_1)$ is much shorter than that of the autocorrelation function $k_X(is_1)$. The graph of the latter shows that it may be approximated, over a certain range, wider than the correlation function of noise, to a straight line. In evaluating the r.m.s. error it is, therefore, enough to know this section of curve $k_X(\tau)$ which is limited by time $0 - /\tau_1/$. By using this straight line approximation and using an approximate expression for determining a new time scale factor z, the expression for the required transfer function K_r becomes $K_r = K_n(zp)$. It is shown that the error, introduced in linearizing the graph of the correlation function of the useful signal, can be always determined. There are 5 tables, 6 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

SUBMITTED: May 27, 1961

Card 2/2

APPROVED FOR RELEASE: 08/25/2000

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•	6-2 02	S/194/62/000/012/013/101 D201/D308	
	9,7200 AUTHORS:	Sokolov, N. I. and Yakushov, V. M.	
	TITLE:	Application of continuous analog computers to static d.c. and a.c. simulator computations	
	PERIODICAL:	Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 65-66, abstract 12-1-130 ya (Dokl. na 4-y Mezhvuz. Konferentsii po primeneniyu fiz. 1 matem modelirovaniya v razlichn. otraslyakh tekhn. Sb. 2. M., 1962, 25-38)	
	in conjuncti lations and is shown tha simultaneous phase, the c	pointed out that the use of d.c. and a.c. simulators on with continuous analogs results in quicker calcu- increases the number of problems which are solved. It t, in the calculation of s.c. currents due to several faults or s.c. currents in systems with disconnected omponents of continuous analogs may be used for elec- ation of 'ideal' transformers or for automatic setting conditions which satisfy the limiting conditions at	X
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Application of continuous ...

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the damaged point. The possibility of using these components for the reproduction of nonlinear static load characteristics is investigated. It is also shown that it is possible to take into account the real transformation coefficient when working with static a.c. simulator and to take into account the mutual inductance between the lines in null-to-sequence circuits, when the simulators are coupled with analogs. 2 references. / Abstracter's note: Complete translation. /

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SOKOLOV, N.I., doktor tekhn.nauk (Moskva); GUREVICH, Yu.Ye., inzh. (Moskva); KHVOSHCHINSKAYA, Z.G., inzh. (Moskva)

> Use of analog computers in studying the parallel operation of large turbogenerators. Elektrichestvo no.10:5-13 0 '63. (MIRA 16:11)

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CIA-RDP86-00513R001652020003-2

SOKOLOV, N.I., kand.tekhn.nauk

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Choice of coordinate systems and use of equivalent circuits in mathematical modeling of the transients of synchronous and asynchronous machines. Trudy VNIIE no.15:47-72 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, Nikolay Ivanovich; SOBOLEV, O.K., red.; BUL'DYAYEV, N.A., tekhn. red.

[Synthesis of linear automatic control systems with random action] Sintez lineinykh sistem avtomaticheskogo regulirovaniia pri sluchainykh vozdeistviiakh. Moskva, Izd-vo "Energiia," 1964. 127 p. (Biblioteka po avtomatike, no.93) (MIRA 17:3)

APPROVED FOR RELEASE: 08/25/2000

NY NY TRANSFERRE

SOVALOV, S.A., kand. tekhn. nauk; SOKOLOV, N.I., doktor tekhn. nauk; SOKOLOV, N.N., inzh.

> Carrying capacity of electric power transmission lines from thermal electric power plants. Elek. sta. 35 no.2:73-79 F 164. (MIRA 17:6)

 Ob"yedinennoye dispetcherskoye upravleniye Yedinoy enerraticheskoy sistemy SSSR (for Sovalov). 2. Vsesoyuznyy nauchno issledovatel'skiy institut elektroenergetiki (for N.I. Sokolov).
Energoset'proyekt (for N.N. Sokolov).

APPROVED FOR RELEASE: 08/25/2000

GRUZDEV, Igori Aleksandrovich; KADOMSKAYA, Kira Fanteleymonovna; KUCHIMOV, Leonid Aleksandrovich; LUGINSKIY, Yakov Natanovich; FORTHOY, Marlen Gdalevich; SOKOLOV, Nikolay Ivanovich; NIKOLAYEVA, M.I., red.

> [Use of analog computers in electric power systems; methods for studying transient processes] Primenenle analogovykh vychislitelinykh mashin v energeticheskikh sistemakh; metody issledovanil perekhodnykh protsessov. [By] I.A.Gruzdev i dr. Moskva, Energiia, 1964. 407 p. (MIRA 18:2)

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Sokulov, Nikolay I				- 3671-
lineynykh siste	m avtomatich	control systems under eskogo regulirovaniya d-vo "Energiya", 1964, ies note: Biblioteka	pri sluchsynykh 127 p. illus., t	viblio.
TOPIC TAGS: lines	r automatic	control system, rende	om stationary sign	181
NIT UCCT AND COVER	GE: The boo	k considers the proble	m of synthesizing	; linear
automatic control certain assigned t termining the dest optimal saturation circuit and parame	time function red transmis of technica aters of tech	in the influences of its is. Two stages of sync sion function of the s il regimes and determin inically feasible syste unction. The book is il students concerned with	othesis are assign system from the co ning the structure ems of automatic (Intended for engin	ed: de- ondition of e of the control with neers.
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	Ch. I. Processing a random stationary signal with a linear automatic control system 7	
	Ch. II. Some problems of the synthesis of automatic control systems 18	
	Ch. III. Determining the desired transmission function of a system with assigned astatism under the influence of a random stationary signal 30	
	Ch. IIII. Determining the desired transmission function of an automatic control	
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	Ch. V. Determining the desired transmission function of a system with assigned astatism with rendom stationary interferences and certain assigned	•
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	Ch. VI. Selecting the distribution law of zeros and pluses of a standard	
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	Ch, VII. Determining the desired transmission function of an automatic control	
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r	Ch. VIII. Some problems of determining the structure and parameters of a corrected linear automatic control system from the desired transmission function 111	
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	ACCESSION NR: AT5004118 S/0000/64/000/000/0169/0187 50
	AUTHOR: Sokolov. N. I.
	TITLE: Selection of a block diagram and the parameters of a combined control sys-
	SOURCE: Vsesoyuznoye soveshchaniye po teorii invariantnosti i yeye primeneniyu v hytomaticheskikh sistemakh. 2d, Kiev, 1962. Teoriya invariantnosti v sistemakh
	avtomaticheskogo upravleniya (Theory of invariance in automatic control systems); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 169-187 'TOPIC TAGS: invariance theory, cybernetics, automatic control system
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ACCESSION NR: AT5004118

ASSOCIATION: None

transfer function is then determined when the correcting device of the basic control channel of an ACS does not include the inlet point of the perturbing signals; when the first parallel correcting device does not include the inlet point of the perturbing signals and the second includes it; and when the first parallel correcting device does not include the inlet point of the perturbing signals and the second does. The article concludes with a determination of the parameters and diagram of the correcting devices and amplification factor of the basic control channel, and with a determination of the diagram and parameters of the auxiliary channels. Orig. art. has: 3 figures and 45 formulas.

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Antonov, A. V.;	Vasil'yev, P. I.; Venikov, N. I.; Kalinin, S. P. N.; Khoroshavin, B. I.; Chumakov, N. I.	
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SOROIOL	1 controllable-ion-energy mode of	
TITLE: Changing the IAE cy	yclotron into a controllable-ion-energy mode of	
operation		
n - Duibony i tekhnik	a eksperimenta, no. 6, 1964, 28-29	
TOPIC TAGS: cyclotron, L	AE cyclotron	
ABSTRACT: The adoption of with preservation of a good duration (2-4 nsec) of acce	of rapid energy control in the 1.5-meter IAE cycl $(\pm 0.3-0.4\%)$ monoenergetic characteristic and s elerated-ion clusters, was predicated upon the fol e cyclotron: (1) Correction of magnetic field by the ings within 5-14 koe; (2) Provision of a dee-type for the entire range of accelerated ions; (3) Repl	ne slit
ion optical device suitable		
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ne VCh-200 h-f oscillator b	y a GU-300 which can be tuned without additional	
eutralization within $8-13$ M	Ic; (4) Introduction of a remote control of dees ptical properties of the system guiding the output	
eam. As a result of the ab	ove measures, the type and energy of particles can be	
langed in less than an hour	's time; particulars are tabulated. Orig. art. has:	
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figure and 2 tables.		
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$L_{2960-66} = EWT(d)/EWP(k)/EWP(1)$ ACCESSION NR: AP5026355	UR/0105/64/000/009/0091/0091
AUTHOR: Bel'kind, L. D.; Venikov, V. A.; <u>Zhadin, K. P</u> .; Zhebrovskiy, S. P.; Lapitsk Razevig, D. V.; Rossiyevskiy, G. I.; Safor Razevig, D. V.; Rossiyevskiy, G. I.; Safor	nov, A. P.; Sokolov, N. 1.; Solvatring, 200 A. H.; Khoyster, V. A.
TITLE: Professor B. A. Teleshev on this for this engineering, scientific, and teach	70th birthday and the 45th anniversary
SOURCE: Elektrichestvo, no. 9, 1964, 91	
He graduated from the electromediantical technic Institute in 1917 and gained the In the Union of Electric Power Stations was one of the founders of the first dis Power System, the chief dispatcher of the voltage networks of the Moscow Union, the the Moscow high-voltage network and of t	as seventy years old 12 March 1999. department of the Petrograd Poly- title Electrical Engineer in 1920. of the Moskowskiy rayon. Teleshow patcher service of the Noscow his system, the manager of the high- his system in construction of
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