

CHISTYAKOV, I.

VAZHENIN, N., nachal'nik (Kiyev); SOKHATSKIY, V., predsedatel' (Tashkent);
POROSHIN, V., zamestitel' predsedatelya (Novosibirsk); KLAZ, I., instruk-
tor; CHISTYAKOV, I., predsedatel' (Taganrog).

All-Union Military Games of primary organizations of the All-Union
Volunteer Society for Assistance to the Army, Air Force, and Navy.
Voen.znan. 29 no.9: 2 of cover S '53. (MLRA 6:12)

1. Otdel orgmassovoy raboty i propagandy orgkomiteta Vsesoyuznogo obshche-
stva sodeystviya aviatsii Ukrainskoy SSR (for Vazhenin). 2. Orgkomitet
Vsesoyuznogo obshchestva sodeystviya aviatsii Uzbekskoy SSR (for Sokhatskiy)
3. Oblastnyy orgkomitet Vsesoyuznogo obshchestva sodeystviya aviatsii (for
Poroshin). 4. Minskiy oblastnyy orgkomitet Vsesoyuznogo obshchestva so-
deystviya aviatsii (for Klaz). 5. Komitet pervichnoy organizatsii Vseso-
yuznogo obshchestva sodeystviya aviatsii (for Chistyakov).

(Military education)

VOLKOV, A., kand.tekhn.nauk; CHISTIAKOV, I., aspirant (g.Ivanovo)

Liquid crystals. Tekh.mol. 28 no.9:22-23 '60. (MIRA 13:10)
(Liquid crystals)

CHISTYAKOV, I., general-polkovnik

Drill knowledge for service and battle. Starsh.-serzh. no.1:11
Ja '61. (MIRA 14:7)

(Infantry drill and tactics)

CHISTYAKOV, I. [Chystiakov, I.] (Dnepropetrovsk)

Happy fishing, friends. Nauka i zhyttia 12 no.4:61-62 Ap
'62. (MIRA 15:8)

(Fishing)

CHISTYAKOV, I.A. (Moskva)

Apparatus for determining blood pressure and the oculocardiac
reflexes in dogs. *Fiziol.shur.* 44 no.10:1003-1005 0 '58
(MIRA 12:1)

(REFLEXES,

oculo-cardiac reflex, registration appar. (Rus))

(EYES, physiol.

same (Rus))

(HEART, PHYSIOL.

same (Rus))

(BLOOD PRESSURE, determ.

appar (Rus))

CHISTYAKOV, I.A.

Determination of the average lethal dose (LD_{50}) and evaluation
of its significance. Vop. virus. 9 no.5:626-630 S-O '64.
(MIRA 18:6)

YEVDOKIMOV, A.A., inzh.; PYLAYEV, N.I., inzh.; CHISTYAKOV, I.D., inzh.

Study of the cavitation resistance of materials using an
impact-erosion test stand under field conditions. [Trudy]
IMZ no.10,241-252 '64. (MIRA 18:12)

Chistyakov I.D.
CHISTYAKOV, I.D., insh.

Small mobile compressor. Biul. tekhn. inform. 3 no.10:46 0 '57.
(Compressors) (MIRA 10:12)

Chistyakov, I.D.
SOLOV'Yeva, N.P., inzh.; ~~CHISTYAKOV, I.D., inzh.~~

Struggle for the expansion of construction engineering. *Biul. tekhn.*
inform. 3 no.12:22-25 D '57. (*MIRA 11:1*)
(Building machinery)

RAKOV, Anatoliy Vasil'yevich; CHISTYAKOV, Ivan Dmitriyevich; IVANOV-SKOB-
LIKOV, P.V., inzh., red.; KUBNEVA, N.M., tekhn.red.

[Making silicalcite in the Kirov Plant in Leningrad] Opyt proiz-
vodstva silikal'tsita na Kirovskom zavode v g.Leningrade. Lenin-
grad, Leningr.dom nauchno-tekhn.propagandy. (Informatsionno-
tekhnicheskii listok, no.34-35. Stroitel'naya promyshlennost').
Pt.1. 1958. 18 p. (MIRA 12:12)
(Leningrad--Building materials)

CHISTYAKOV, I.G.

Structure of some liquid crystals in the supercooled state.
Zhur. strukt. khim. 5 no.4:550-556 Ag '64. (MIRA 18:3)

1. Institut kristallografii AN SSSR i Ivanovskiy gosudarstvennyy
meditsinskiy institut.

USOL'TSEVA, V.A.; CHISTYAKOV, I.G.; NASYROVA, M.D.

Thermographic and polarizing microscope study of L-ascorbic acid. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 8 no.1:65-68 '65. (MIRA 18:6)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut, kafedra biokhimi i kafedra fiziki.

CHISTYAKOV, I.G.

Liquid crystals. Kristallografiia 5 no. 6:962-976 N-D '60.
(MIRA 13:12)

1. Institut kristallografi AN SSSR.
(Liquid crystals)

CHISTYAKOV, I.G.

Liquid crystal texture of sodium oleate. Kristallografiia
6 no.3:479-482 My-Je '61. (MIRA 14:8)

1. Institut kristallografii AN SSSR.
(Liquid crystals) (Sodium oleate)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.

Systems with liquid crystals. Part 1: Cholesterol compounds.
Izv.vys.uch.zav.; khim.i khim.tekh. 5 no.4:585-588 '62.
(MIRA 15:12)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografii AN SSSR.
(Cholesterol)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.

Systems with liquid crystals. Part 2: Systems
cholesterol - styl alcohol and cholesterol - glycerol.
Izv.vys.uch.zav.; khim.i khim.tekh. 5 no.4:589-593 '62.
(MIRA 15:12)

(Cholesterol) (Hexadecanol) (Glycerol)

CHISTYAKOV, I.G.

Some characteristics of liquid crystal textures of the cholesterolin and nematic types. Kristallografiia 7 no.5:764-767 S-O '62.
(MIRA 15:12)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut kristallografi AN SSSR.
(LIQUID CRYSTALS) (CHOLESTEROL)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.; NASYROVA, M.D.; YERSHOVA, L.I.

Systems having the liquid crystalline state. Part 3: Cholesteryl caprylate and cholesteryl caprylate. Izv.vys.ucheb.zav.;khim. i khim.tekh. 6 no.2:257-259 '63. (MIRA 16:9)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut kristallografi AN SSSR.
(Cholesterol esters) (Octanoic acid)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.; NASYROVA, M.D.

Systems have the liquid crystalline state. Part 4: p,p'-
Nonoxybenzaltoluidine. Izv. vys. ucheb. zav.; khim. i khim.
tekh. 6 no.3:434-436 '63. (MIRA 16:8)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografii AN SSSR.
(Liquid crystals) (Toluidine—Thermal properties)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.

Systems having the liquid crystalline state. Part 5:
Paraazoxyanisole and paraazoxyphenetole. Izv. vys. ucheb. zav.;
khim. i khim. tekhn. 6 no.3:436-439 '63. (MIRA 16:8)

(Liquid crystals) (Anisole—Thermal properties)
(Phenetole—Thermal properties)

S/070/63/008/001/013/024
E132/E460

AUTHOR: Chistyakov, I.G.

TITLE: A study of the transparency of liquid crystals

PERIODICAL: Kristallografiya, v.8, no.1, 1963, 79-86

TEXT: The transparency of cholesteryl esters at different temperatures has been studied. It was found that changes in the transparency serve as criteria, not only of phase transitions of the type solid crystal - liquid crystal - isotropic liquid, but also as criteria of polymorphic transitions inside a single phase which may be liquid-crystalline. The experimental measurements were made on specimens in an air thermostat through which a beam of light was passed. The beam was collected in a photomultiplier. The temperature could be changed at $0.25^{\circ}/\text{min}$. Light transmission was also measured on the stage of an MΦ-2 (MF-2) microphotometer on which a heater was mounted. Because of uncertainties in the temperature in this case the transparency was plotted against time as the specimen warmed up or cooled down. Graphs are given for cholesteryl caprylate, caprate, capronate, formate, acetate, stearate and palmitate. In each case the

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A study of the transparency ...

S/070/63/008/001/013/024
E132/E460

specimen was carried through a cycle of heating and cooling and the transitions are shown by steps in the transparency/temperature curve. There is normally considerable hysteresis and the two branches of the record do not coincide. Some general macroscopic observations on the appearance of the specimens at each stage are given but proper crystallo-optical measurements are necessary to explain the structures properly. The methods described give a quick survey of the field. There are 13 figures. ✓

ASSOCIATIONS: Ivanovskiy gosudarstvennyy meditsinskiy institut
(Ivanovo State Medical Institute)
Institut kristallografii AN SSSR
(Institute of Crystallography AS USSR)

SUBMITTED: May 3, 1962

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CHISTYAKOV, I.G.

Process of growth of smectic textures. Kristallografiia 8 no.1:
123- 128 Ja-F'63 (MIRA 17:7)

1. Institut kristallografi AN SSSR i Ivanovskiy gosudarstvennyy
meditsinskiy institut.

CHISTYAKOV, I.G.; VAYNSHTEYN, B.K.

Structure of ~~of~~ -benzoxaz-~~(anisal-~~ α -naphthylamine) in a vitrified
liquid crystalline state. Kristallografiia 8 no.4:570-577 JI-Ag
'63. (MIRA 16:9)

1. Institut kristallografi AN SSSR.
(Naphthylamine) (Liquid crystals)

CHISTYAKOV, I.G.

Structure of n,n'-nonoxybenzaltoluidine and cholesteryl
caprinate in the liquid crystalline state. Kristallografiia 8
no.6:859-864 N-D'63. (MIRA 17:2)

1. Institut kristallografi AN SSSR.

USOL'TSEVA, V.A.; CHISTYAKOV, I.G.

Chemical characteristics, structure, and properties of liquid
crystals. Usp.khim. 32 no.9:1124-1151 S '63. (MIRA 16:9)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografiy AN SSSR.

(Liquid crystals)

VAYNSHTEYN, B.K.; CHISTYAKOV, I.G.

X-ray study of the structure of liquid crystals with the aid of the
distribution function. Dokl. AN SSSR 153 no.2:326-329 N '63.
(MIRA 16:12)

1. Chlen-korrespondent AN SSSR (for Vaynshteyn).

CHISTYAKOV, I.G.; KOSTERIN, Ye.A.

Vitrified liquid-crystal films. Rost krist. 4:68-73 '64.
(MIRA 17:8)

CHISTYAKOV, I.G.

Growth of single-crystal nematic films. Rost. krist. 4:74-80
'64. (MIRA 17:8)

L 10245-67 EWP(1) IJP(c) GG
ACC NR: AIG029740

SOURCE CODE: UR/0053/66/089/004/0563/0602

56

AUTHOR: Chistyakov, I. G.

ORG: Ivanova Medical Institute (Ivanovskiy meditsinskiy institut)

TITLE: Liquid crystals

SOURCE: Uspekhi fizicheskikh nauk, v. 89, no. 4, 1966, 563-602

TOPIC TAGS: liquid crystal, liquid state, liquid property, crystal property, ultrasonic property, electric property, magnetic property, heat property

ABSTRACT: This is a review article dealing with the mesomorphic (liquid crystal) state of matter and its two modifications, the smectic state and the nematic state. The subject headings are: 1. Introduction. Basic concepts and terminology. 2. Texture and critical properties of liquid crystals. (a. Smectic liquid crystals. b. Nematic liquid crystals. c. Cholesteric liquid crystals. d. Lyotropic liquid crystals.) 3. The structure of liquid crystals. 4. Some properties of liquid crystals. (a. Thermal properties. b. Magnetic properties. c. Electric properties. d. Action of ultrasound on liquid crystals. e. Viscosity and surface tension.) 5. Theories of the liquid-crystalline state. (a. "Swarms" in nematic liquid crystals. b. The molecular-statistical theory of liquid crystals. c. The theory of elasticity of liquid crystals.) 6. Practical applications of liquid crystals. (a. Liquid crystals in technology. b. Liquid crystals in medicine and biology.) Orig. art. has: 35 figures, 29 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 037/ OTH REF: 117

UDC: 542.65

Card 1/1

CHISTYAKOV, I. M.

TSYURUPA, I. I., insbener; CHISTYAKOV, I. M.

Building foundations for industrial trestles on screw piles.

Stroi.prom. 32.no.7:31-33 J1 '54.

(MIRA 7:7)

(Trestles) (Pile driving)

TSYURUPA, I.I., inzhener; CHISTYAKOV, I.M., inzhener.

Building a bridge on screw shell piles. Transp. stroi. 5 no.9:
3-8 N '55. (Piling (Civil engineering)) (MIRA 9:2)

Chistyakov I.M.

TSYURUPA, I.I., inzh.; ~~CHISTYAKOV~~ I.M., inzh.

Constructing small bridges with frame-type piers. Transp.stroi.
7 no.8:26-27 Ag '57. (MIRA 10:12)

(Bridges, Concrete)

CHISTYAKOV, Igor' Mikhaylovich

TSYURUPA, Ivan Iosifovich, inzh.; ~~CHISTYAKOV, Igor' Mikhaylovich, inzh.;~~
DOBSHITS, M.L., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Engineering equipment for screw piles] Inzhenernye sooruzhenia na
vintovykh svaiakh. Moskva, Gos. transp. zhel-dor. izd-vo, 1958,
77 p. (MIRA 11:7)

(Piling (Civil engineering))

RYBAK, P.I., inzh.; KRAYNIY, A.I., inzh.; CHISTYAKOV, I.M., dotsent

Causes for the breakdown of the reloading crane. Bez.truda v prom.
6 no.1:12-13 Ja '62. (MIRA 15:1)
(Cranes, derricks, etc.--Safety measures)

VOKRACHKO, Yuriy Georgiyevich; DELERZON, Boris Samuilovich; IL'IN, Andrey Aleksandrovich; SALIVON, Stepan Alekseyevich; FAL'KOVICH, Boris Moiseyevich; FEDOROV, Yuriy Viktorovich; CHISTYAKOV, Ivan Pavlovich; OKUNEV, Yu.K., podpolkovnik, red.; SOKOLOVA, G.F., tekhn. red.

[Textbook for the second-class military driver] Uchebnik voennogo voditel'ia vtorogo klassa. [By] IU.G. Vokrachko i dr. Moskva, Voenizdat, 1963. 376 p. (MIRA 16:6)
(Automobile drivers)

MIKHAYLOV, N.N., kand. biolog. nauk; KONDRAKHINA, K.N.; CHISTYAKOV, I.Ya.,
nauchnyy sotrudnik

Hygiene of the preputial cavity in boars. Veterinariia 41 no.9:92-
93 S '64. (MIRA 18:4)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
2. Starshiy laborant Vsesoyuznogo instituta eksperimental'noy veterinarii (for Kondrakhina).

SIDOROV, N.; ANTONOV, V.; BOROVSKIY, G.; BOCHKO, L.; SOLOV'YEV, M.;
SOLOKHIN, V.; TETERIN, N.; CHISTYAKOV, L.; NENASHEV, V.;
USHATIKOV, N.; NOVICHKOV, A.; YARTSEV, N., red.; KUZNETSOVA, A.,
tekhn. red.

[Technology summons us] Tekhnika zovet. Moskva, Mosk. rabochii,
1961. 194 p. (MIRA 15:2)
(Technological innovations) (Automation)

CHISTYAKOV, I.

Toward the festival of youth. Sov. profsoiuzy 5 no.4:58-62 Ap '57.
(Youth--Congresses) (MLBA 10:6)

CHISTYAKOV, L.D.

New and rare diatoms of the Irtysh River. Bot.mat.Otd.spor.
rast. 12:60-67 Ja '59. (MIRA 12:12)
(Irtysh River--Diatoms)

CHISTYAKOV, Leonid Sergeyevich; ZHUKOV, Valentin Nikolayevich; OVSYANNIKOV,
L.B., red.; NIKOLAYEVA, L.N., tekhn.red.

[Taxicabs in Moscow; experience of Moscow taxicab parks] Moskovskoe
taksi; iz opyta taksomotornykh parkov Moskvy. Moskva, Nauchno-tekhn.
izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR,
1960. 78 p. (MIRA 13:9)

(Moscow--Taxicabs)

CHISTYAKOV, Leontiy Sergeyevich; YARTSEV, N., red.; SHLYK, M.,
tekh.n.red.

[Furniture; practice in introducing new equipment and technology]
Mebel'; opyt vnedreniya novoi tekhniki i tekhnologii. Moskva,
Mosk.rabochii, 1960. 93 p. (MIRA 14:1)
(Furniture)

CHISTYAKOV, Leontiy Sergeyevich; RAZINKOV, P., red.; KUZNETSOVA, A.,
tekhn. red.

[Recent development in wood processing] Novoe v obrabotke
drevesiny. Moskva, Mosk. rabochii, 1963. 82 p.

(MIRA 16:7)

(Woodworking industries)

NIKONOV, Mikhail Ivanovich; CHISTYAKOV, Leontiy Sergeyevich,
zhurnalist; YARTSEV, N., red.; KUZNETSOVA, A., tekhn.
red.

[Speedy assembly line] Skorostnoi potok. Moskva, Mosk.
rabochii, 1963. 118 p. (MIRA 16:8)
(Construction industry)

CHISTYAKOV, L. V., KURCHATOV, B. V., MEKHEDOV, V. N., KUZNETSOVA, M. Ya., BORISOVA, N. I.
and KURCHATOVA, L. N.

"Radiochemical Studies of Spallation Products of Silver With High Energy Particles".

Report appearing in 1st Volume of "Session of The Academy of Sciences USSR on the Peaceful Use of Atomic Energy, 1-5 July 1955", Publishing House of Academy of Sciences USSR, 1955.

SO: Sum 728, 28 Nov 1955.

SOV/56-34-6-2/51

AUTHORS:

Baronov, S. A., Rodionov, Yu. P., Shishkin, G. V.,
Chistyakov, L. V.

TITLE:

The Energy Levels of the Dy¹⁶¹ Nucleus (Energeticheskiye
urovni yadra Dy¹⁶¹)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol 34, Nr 6, pp 1367-1380 (USSR)

ABSTRACT:

First, the authors mention the previous papers concerning this subject. The purpose of this paper is a more accurate investigation of the electron spectrum (including its low energy part) and of the soft γ -radiation caused by the decay of Tb¹⁶¹. The electron spectrum of Tb¹⁶¹ was investigated by means of a magnetic β -spectrometer with double focusing of the electron beam (Ref 11). The γ -radiation caused by the decay of Tb¹⁶¹ was investigated by means of spectrometric proportional counters. The experimental device and the preparation of the radioactive source (Tb 161) is described in a few lines. A diagram shows a great part of the β -spectrum and the electron spectrum for the interval of the values of

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The Energy Levels of the Dy¹⁶¹ Nucleus

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H α from 200 to 900 G.cm (obtained by means of the thin source) and from 780 to 980 G.cm (obtained by means of a more intense source). The authors observed some dozens of electron lines which are placed mainly in the low energy part of the spectrum, but they observed no(although if weak) high energy conversion lines. A table gives an interpretation of the conversion lines corresponding to the γ -transitions of the Dy¹⁶¹ nucleus and also the intensities for some lines. In the Curie (Kyuri) diagram one may discern 4 partial spectra the energy limits of which are given. The following part of this paper deals with the measurement by means of a spectrometric proportional counter and of a γ -spectrometer. A diagram shows the spectrum of the X-radiation and of the soft radiation of Dy¹⁶¹ plotted in the coordinates $(N, E_{X,\gamma})$ where N denotes the number of the pulses and $E_{X,\gamma}$ - the energy of the X- and γ -radiation (in keV) for 3 different measurement series. The next part of this paper deals with the determination of the multipole type of the γ -transitions. A table gives the experimental values of the absolute conversion coefficients for the γ -radiations with the energies 25,75; 48,9; 74,4 keV. The

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The Energy Levels of the Dy¹⁶¹ Nucleus

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γ -radiation with the energies 48,9 and 74,5 keV corresponds, respectively, to the magnetic and electrical dipole radiation. The construction of a scheme of the energy levels of the Dy¹⁶¹ nucleus on the basis of the experimental data leads to some difficulties. Some of the observed conversion lines and γ -lines cannot be explained in an unambiguous way. For the Dy¹⁶¹ nucleus energy levels with 15,8; 44 + 46; 48,9; 74,5; 84; 102; 103,0; 151,5; ~325 keV were found. A figure shows the possible scheme of the Dy¹⁶¹ nucleus, it was plotted according to the experimental data. But this scheme does not pretend to be a complete one. The authors thank P. M. Nemirovskiy, A. T. Baz', V. M. Strutinskiy, L. A. Icher, and D. F. Zaretskiy for the participation in the discussion concerning this paper. They thank also I. A. Gliv who placed to the authors' disposal some new data concerning the conversion coefficients of L-subshell atoms. There are 5 figures, 4 tables, and 21 references, 5 of which are Soviet.

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AUTHORS: Kurchatov, B. V., Mekhedov, V. N., SOV/56-35-1-7/59
~~Chistyakov, L. V.~~, Kuznetsova, M. Ya., Borisova, N. I.,
Solovyev, V. G.

TITLE: Secondary Nuclear Reactions in Bismuth and Lead During
Bombardment by Protons of High Energy (Vtorichnyye yadernyye
reaktsii na vismute i svintse pri bombardirovke protonami
vysokikh energiy)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol 35, Nr 1, pp 56 - 63 (USSR)

ABSTRACT: In the present paper experiments are described which had
already been carried out in 1951 - 1952, the results
and evaluations of which are, however, published only
now. Bi(Z=83) and Pb(Z=82) was bombarded with protons
of energies of from 180 to 480 MeV, and astatine isotopes
(Z=85) were obtained, the production of which was inves-
tigated by a radiochemical method. With the exception
of At²¹¹, which was also obtained from lead, -
Pb²⁰⁸(Li,kn)At²¹¹ -, it was possible to obtain all
astatine isotopes from bismuth. $\sigma(A^{211}) = 6 \cdot 10^{-29} \text{cm}^2$,

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Secondary Nuclear Reactions in Bismuth and Lead During Bombardment by Protons of High Energy SOV/56-35-1-7/59

$\sigma(A^{210}) = 2 \cdot 10^{-29} \text{ cm}^2$. The At. isotopes found are nearly all α -active. $\text{At}^{203}(\alpha, K): T = 7 \text{ min}$, $\text{At}^{204}(K): T = 25 \text{ min}$; $\text{At}^{205}(\alpha, K): T = 25 \text{ min}$; $\text{At}^{206}(K): T = 2,5 \text{ h}$; $\text{At}^{207}(\alpha, K 90\%): T = 2 \text{ h}$; $\text{At}^{208}(K): T = 6,3 \text{ h}$; $\text{At}^{209}(\alpha, K 95\%): T = 5,5 \text{ h}$; $\text{At}^{210}(K): T = 8,3 \text{ h}$; (For the α -activity of $\text{Po}^{210} T = 140 \text{ d}$); $\text{At}^{211}(\alpha, K 60\%): T = 7,5 \text{ h}$. The production cross section of At^{211} in lead was $\sim 10^{-31} \text{ cm}^2$. The authors endeavored to explain the phenomena observed by assuming them to be the result of a secondary reaction of the capture of fission products (α -particles or Li-nuclei). The production of light astatine isotopes might be explained by the capture of high-energy protons with a following emission of π^- -mesons and several neutrons. The cross section for the production of α -particles with $E > 20 \text{ MeV}$ from bismuth irradiated with 480 MeV protons is determined from the astatine yield as amounting to $(5 \text{ to } 6) \cdot 10^{-25} \text{ cm}^2$ (Perfilov and Ostroumov (Ref 11) obtained $(1,5 \div 1,6) \cdot 10^{-25} \text{ cm}^2$.) In conclusion Professors B.M. Pontekorvo and I.Ya.

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Secondary Nuclear Reactions in Bismuth and Lead During Bombardment by Protons of High Energy SOV/56-35-1-7/59

Pomeranchuk are thanked for their advice and discussions. There are 2 figures, 4 tables, and 12 references, 2 of which are Soviet.

SUBMITTED: February 20, 1958

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Chistyakov, L. V.

80V/56-37-2-6/56

Korotova, E. I., Kuznetsov, M. Ya., Kurchatova, L. M.,
Mokhov, V. E., Chistyakov, L. V.

21(7)
AUTHORS:

Recoil nuclei in the Disintegration of Silver by Fast Protons

TITLE:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 37, No 2(6), pp 366-371 (USSR)

PERIODICAL:

In the present paper several experiments carried out in the
years 1957/58 are described at first discussed, which aimed at the direct
determination of the range and angular distributions of the
recoil nuclei of some disintegration products of silver (^{107}Ag ,
 ^{109}Ag). Figure 1 shows the special containers used for the
investigation of angular and energy distribution. The targets used
were silver foils (0.5 mg/cm^2 , impurities: Mg, Si, Fe, Al,
 $\text{Pb} < 10^{-4}\%$, $\text{Au} < 10^{-3}\%$) which were irradiated by protons (parti-
cle current $\sim 0.1 \text{ } \mu\text{A}$). The following was investigated:
 $\text{Ag}^{107} + \text{Ag}^{109}(\text{p}, \text{X})$, $\tau = 70 \text{ min}$; $\text{Ag}^{106}(\text{p}, \text{X})$, $\tau = 8 \text{ d}$; $2\text{p}^{89}(\text{p}, \text{X})$,
 $\tau = 80 \text{ h}$; $\text{Rb}^{80}(\text{p}, \text{X})$, $\tau = 16 \text{ h}$; $\text{Rb}^{81} + 2\text{p}^{86}(\text{p}, \text{X})$, $\tau = 6 \text{ h}$, and
 $\tau = 80 \text{ h}$; $\text{Rb}^{80}(\text{p}, \text{X})$, $\tau = 16 \text{ h}$; $\text{Rb}^{81} + 2\text{p}^{86}(\text{p}, \text{X})$, $\tau = 6 \text{ h}$, and
 $\tau = 80 \text{ h}$.

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$\text{Se}^{77}(\text{p}, \text{X})$, $\tau = 6.7 \text{ h}$. The angular distribution of the products
was investigated with the exception of 90° to the proton beam
directions: forward, backward, $122^\circ \leq \theta \leq 175^\circ$; the results
(forward: $5 \leq \theta \leq 36^\circ$, backward: $122^\circ \leq \theta \leq 175^\circ$), the results
obtained are shown in Table 1. The result of the investigation
of the angular distribution of the observed activities is shown
in Table 2. Figure 2 shows the variation of the ratio of activ-
ities of the products of the disintegration of Se^{77} with θ .
[Weak exponential increase with growing θ .] In the following
investigations of the energy distribution of the reaction prod-
ucts are described. The α isotopes and also Se^{77} for the angle
 $90^\circ \pm 40^\circ$ were investigated. The directly measured number of
nuclei of each element in Δ for various ranges is shown by
Figure 3. The errors in range-values may be explained by the
thickness of the polyethylene film. With an increase of the
range, the number of recoil nuclei decreases in the case of all
elements; with a decreasing Δ the range increases. In Figure 4
the range - energy curve is given for polyethylene and silver;
the polyethylene curve is considerably higher and has a steeper

Card 2/3

slope than the silver curve. Figure 5 finally shows the energy
distribution of the recoil nuclei at $90^\circ \pm 40^\circ$. Finally, qualitative
follows a discussion of the results with respect to the relative
explanation of the distribution laws found. The results seem to
confirm the mechanism of the Se^{77} , Rb^{80} , and Rb^{81} formation by
evaporation of α -particles, protons and neutrons. In this con-
nection Table 3 is of great value, which gives the measured and
calculated number of particles $\Sigma(\text{n,p})$, $\Sigma(\text{n,p,n})$,
 $\Sigma(\text{n,p,n})$, $\Sigma(\text{n,p,n})$ for these isotopes. The authors finally thank
B. V. Kurchatov and Professor B. T. Geylikman for their help and
valuable remarks. There are 5 figures, 3 tables, and 21 ref-
erences, 0 of which are Soviet.

ASSOCIATION: Ob'yedinenyy Institut yadernykh issledovaniy (Joint Institute
of Nuclear Research)

March 4, 1959

SUBMITTED:

Card 3/3

S/824/62/000/000/002/004
B183/B102

AUTHORS: Borisova, N. I., Kurchatov, B. V., Novgorodtseva, V. I.,
Pohelin, V. A., Chistyakov, L. V., Shubko, V. M.

TITLE: The radiochemical study of Am²⁴¹ fission by neutrons of
various energies

SOURCE: Fizika deleniya atomnykh yader. Ed. by N. A. Perfilov and
V. P. Eysmont. Moscow, Gosatomizdat, 1962, 48 - 53

TEXT: Even-odd nuclei can be fissioned at different resonance energies
according to which of the two possible spin states is present. This
effect was observed in the neutron-induced fission of Am²⁴¹. Because of
the relatively low fission cross section of Am²⁴¹ the study was made with
a filtered beam of rays, despite certain disadvantages of this as com-
pared with monochromatic neutron beams. The irradiation was done in the
APR (IRT) reactor under a neutron flux of $5 \cdot 10^{12}$ neutrons/cm².sec lasting
one hour without and several hours with the filter. The filters were of
aluminum-alloyed gadolinium, cadmium, rhodium, and erbium oxides. The

Card 1/2

The radiochemical study of...

S/824/62/000/000/002/004
B183/2102

Am^{241} was extracted from plutonium, thoroughly purified and then electro-deposited upon platinum disks to give a thickness $0.13 - 0.5 \text{ mg/cm}^2$. The fission products emitted from this layer on irradiation were collected on filter paper and subjected to radiochemical analysis. The counting was made on a methane flow counter with an approximate 4π -geometry. The yield of the different products, as referred to the yield in Mo^{99} , increases with increasing neutron energy when the yield of Ba^{140} is neglected. Comparative calculations showed that within experimental limits of error thermal neutrons and neutrons of the first resonance cause the same mass yields in the fission of Am^{241} . The effect is too weak to allow of estimates in the regions of the second and third resonances. There are 1 figure and 2 tables.

Card 2/2

ACC NR: AP7013696

SOURCE CODE: UR/0367/67/005/002/0241/0249

AUTHOR: Baranov, S. A.; Aliyev, I. G. -- Aliev, I. G.; Chistyakov, L. V.

ORG: none

TITLE: Alpha-decay of Cm^{240} and Cm^{241}

SOURCE: Yadernaya fizika, v. 5, no. 2, 1967, 241-249

TOPIC TAGS: alpha decay, alpha beam, alpha radiation, alpha spectrum, alpha particle, nuclear energy level, alpha spectroscopy

SUB CODE: 20

ABSTRACT: The α -radiation spectra of Cm^{241} , Cm^{240} , and Pu^{236} were investigated using a magnetic α -spectrograph with double focussing of the α -particle beam at the angle $\pi/2$. In the spectra of Cm^{241} , Cm^{240} , and Pu^{236} were found 12, 236, 4, and 2 groups of α -particles respectively. The energy level schemes of Pu^{236} and U^{232} nuclei were constructed from the experimental data. The existence of rotation bands with the quantum characteristics $\frac{1}{2}^+ [631]$ and $\frac{1}{2}^- [743]$ in the level scheme of Pu^{237} was proved experimentally for the first time in an investigation of the α -decay of Cm^{241} . The half lives of Cm^{241} and Cm^{240} were determined. The authors thank I. K. Shvetsov for cleaning radio activity from the foreign particles, and V. M. Kulakov, Yu. F. Rodionov, V. M. Shatinskiy, S. N. Belen'kiy, Card 1/2

0933 2150

ACC NR: AP7013696

N. I. Aleshin, and K. I. Merkulova for help with the measurements. Orig. art.
has: 4 figures and 2 tables. [Based on authors' Eng. Abst.] [JPRS: 40,570]

Card 2/2

CHISTYAKOV, M.

Improve control over the operation of organizations that plan
construction work. Fin. SSSR 16 no.1:30-33 Ja '56. (MLRA 9:5)
(Construction industry--Finance)

CHISTYAKOV, M.

~~CHISTYAKOV, M.~~

Designing organizations on a business accounting basis. Fin.SSSR
17 no.8:30-33 Ag '56. (MIRA 10:12)
(Architecture--Designs and plans)

CHISTYAKOV, M.; SYSOYEV, B.; DUSHEN'KINA, S.

Financing planning-surveying works. Fin.SSSR 21 no.7:
81-85 J1 '60. (MIRA 13:7)

1. Nachal'nik otдела finansirovaniya proyektnykh organizatsiy
Stroybanka (for Chistyakov). 2. Starshiy inspektor otдела
finansirovaniya proyektnykh organizatsiy Stroybanka (for
Sysoyev). 3. Zamestitel' upravlyayushchego Proletarskim
otdeleniyem Stroybanka Moskvyy (for Dushen'kina).
(Banks and banking)
(Construction industry--Finance)

CHISTYAKOV, M.

Spend funds for construction designing and planning economically.

Fin. SSSR 23 no.7:41-45 J1 '62. (MIRA 15:7)

(Construction industry--Finance) (Architecture--Designs and plans)

CHERNYSH, V.; BABAKHADZHAYEV, A. (st.Kagan Tashkentskoy zheleznoy dorogi);
FEDOTOV, G. (Penza); KLOKOV, A. (Yaroslavl'); SKVORTSOV, A. (Yaroslavl');
CHISTYAKOV, M. (Tula); SEROV, B. (poselok Nishneangarsk,
Buryatskaya ASSR); SANAKOYEV, I. (Magdanskaya oblast');
AGAFONOV, G., instruktor profilaktiki (Yegor'yevsk, Moskovskaya obl.);
MALANOV, V. (Chelyabinsk)

Readers' letters. Posh.delo 7 no.9:31 S '61. (MIRA 14:11)
(Fire prevention)

VEKSHIN, G.; SEMIN, N.; CHISTYAKOV, M.

Soviet-Czechoslovak economic cooperation is growing stronger.
Vnesh. torg. 29 no.12:12-'7 '59. (MIRA 12:12)
(Russia--Foreign economic relations--Czechoslovakia)
(Czechoslovakia--Foreign economic relations--Russia)

ZOLOTAREV, V.I.; AVSENNY, Yu.M.; LAPRANOV, I.A.; KISVYANTSY, L.A.; PEKSEY, Yu.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVYANTSY, L.A.; ZIKOV, A.A.; KETHUSOV, A.A.; SHENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, P.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Development of the economy of the people's democracies; a survey for 1957] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red. N.I. Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1958. 610 p. (MIRA 12:2)

1. Moscow. Nauchno-issledovat. kon'yunkturyy institut.
(People's democracies) (Economic conditions)

ZOLOTAREV, V.I.; PEKSHEV, Yu.A.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVIANTSEV, L.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVIANTSEV, L.A.; ZYKOV, A.A.; NETRUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, F.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development of the people's democracies] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red. N.I. Ivanova i dr. Moskva, Izd-vo sots.-ekon.lit-ry, 1958. 619 p.

(MIRA 12:7)

1. Moscow. Nauchno-issledovatel'skiy kon'yunktorny institut.
(Economic conditions)

BRIKER, M.L., inzh.; CHISTYAKOV, M.A., inzh.

KZh-20 milling machine for facing wheels. Elek.i tepl.tiaga
4 no.1:30-32 Ja '60. (MIRA 13:4)
(Electric locomotives--Maintenance and repair)
(Car wheels)

CHISTYANOV, Mikhail Aleksandrovich; GORYUNOV, V.F., red.

[The Czechoslovak Socialist Republic; its economy and
foreign trade] Chekhoslovatskaia Sotsialisticheskai
Respublika; ekonomika i vneshniaia trgovlia. Moskva,
Vneshtorgizdat, 1964. 192 p. (MIRA 17:8)

CHISTYAKOV, M.I., kand.ekonom.nauk; KOMAROV, Ye.I., red.; GERASIMOVA,
Ye.S., tekhn.red.

[Principal problems in methods of industrial planning]
Osnovnye voprosy metodiki planirovaniia promyshlennosti.
Moskva, Gosplanizdat, 1958. 85 p. (MIRA 12:5)
(Industrial organization)

S/115/62/000/003/004/010
E194/E484

AUTHOR: Chistyakov, M.I.

TITLE: A pneumatic-hydraulic installation for checking
standard manometers

PERIODICAL: Izmeritel'naya tekhnika, no.3, 1962, 16-17

TEXT: The usual method of checking reference spring manometers against standard manometers using a hydraulic press is simple and accurate but has the disadvantage that the sensitive part of the manometer being tested becomes filled with oil which it is very difficult to remove and which, in some cases, cannot be tolerated. Accordingly, the author in collaboration with V.D.Nikulin has developed a test rig in which standard spring type manometers can be checked against a loaded piston manometer without filling them with oil. A vessel filled with oil is in communication with the base of the loaded piston manometer and the oil level is adjusted so as to be against the base of the manometer piston. Compressed air from a supply line is applied simultaneously both to the manometer under test and to the top of the vessel that is in communication with the loaded piston manometer. When the system
Card 1/2

CA

16

Apparatus for making and distribution of mesh. A. L. Malchuk and M. P. Chistyakov, U.S.S.R. 66,706, June 30, 1947. M. Hosh

AINSLA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON VALUABLE INDEX

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

COMMON ELEMENTS

COMMON VALUABLE INDEX

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
CA										28									
Apparatus for cooking and transferring of starchy and similar materials. A. L. Malchenko and M. P. Chistyakov. U.S.S.R. 68,818, July 31, 1947. The app. is suitable for cooking of starchy raw materials, for the prepn. of alc. and maltose sirup and similar products. M. Hosh																			
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
STANDARD #1										STANDARD #2									
STANDARD #3										STANDARD #4									

CA 16 Continuous cooking and saccharification of ground mash for distillation. A. L. Malchenko and M. P. Chistyakov. U.S.S.R. 60,160, August 31, 1947. The raw material is mixed with a part of the mash contg. diastase and the further cooking is carried out gradually until the temp. reaches 105°. M. Horsch ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																									
GROUPS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100													GROUPS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100												

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESSES AND PROPERTIES INDEX																			
CA		Mash-distillation apparatus. A. I. Mikhchenko, M. P. Chistyakov, and A. G. Kynnenen. U.S.S.R. 69,434. Oct. 31, 1947. M. II.																	
ABB-31A METALLURGICAL LITERATURE CLASSIFICATION																			
GROUP 22										SUBGROUP 22									
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000										1000 1000 1000 1000 1000 1000 1000 1000 1000 1000									

CA

16

Wort distillation apparatus. A. L. Makhenko, M. P. Shlyakov, and A. G. Kyumenan. U.S.S.R. 66,662, Dec. 31, 1947. The app. is a column divided into 2 parts of which one serves for fermentation and the other for rectification. The H_2O condensate from the rectification column is directed to a special sep. column. The alc. vapors from the latter are returned to the rectification column.
M. Hosh

MALCHENKO, A.I.; CHISTYAKOV, M.P.

Fermentation in a continuous production of alcohol. Patent U.S.S.R. 77,813.
Dec. 31, 1949.
(CA 47 no.21:11654 '53)

ACC NR: /P0020135
IJP(c) JD

SOURCE CODE: UR/0048/GG/030/006/1065/1067

AUTHOR: Salomskiy, N.M.; Chistyakov, N.S.; Prolov, G.I.

ORG: Institute of Physics, Siberian Section, Academy of Sciences, SSSR (Institut
Fiziki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Concerning investigation of the nature of the weakfield pulse switching process
in thin ferromagnetic films / Report, All-Union Conference on the Physics of Ferro- and
Antiferromagnetism held 2-7 July 1965 in Sverdlovsk

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 1065-1067

TOPIC TAGS: ferromagnetic film, magnetization, magnetic susceptibility, microwave,
Permalloy

ABSTRACT: It is suggested that the changes in the uhf susceptibility of thin ferro-
magnetic films during pulsed switching be employed, in addition to the signals picked
up by the usual longitudinal and transverse windings, in investigations of the switch-
ing mechanism. It is shown with the aid of the expressions of N.S.Chistyakov and V.A.
Ignatchenko (Izv. AN SSSR, Ser. fiz., 30, No. 1, 59 (1966)) for the uhf susceptibility
at frequencies far from the ferromagnetic resonance, that the uhf susceptibility does
not change during switching by domain wall displacement but does change during switch-
ing by magnetization rotation, even when the rotation is symmetrically bilateral (half
the magnetization rotating clockwise and half, counterclockwise). The use of both

Card 1/2

DUSHEN'KINA, Svetlana Viktorovna; SYSOYEV, Boris Ivanovich; CHISTYAKOV, Maksim Tikhonovich; VOZYAKOV, A., otv. red.; NADEZHDINA, A., red. izd-va; LEBEDEV, A., tekhn. red.

[Financing of planning and engineering work] Finansirovanie proekt-nykh i izyskatel'skikh rabot. Moskva, Gosfinizdat, 1961. 84 p.
(MIRA 14:10)

(Construction industry—Finance)

GEL'FOND, A.; KARANDEYEV, K.; CHISTYAKOV, M.; SHUMILOVSKIY, N.; LEVIN, M.;
YERMAKOV, V.; KOBRINSKIY, N.

V.N. Mil'shtein; obituary. Elektrichestvo no.4:94 Ap '58.
(Mil'shtein, Viktor Naumovich, d. 1958) (MIRA 11:5)

CHISTYAKOV, N.

New system of distributing the state farm profit. Fin. SSSR 23
no.12:43-45 D '62. (MIRA 16:1)

(State farms—Finance)

GHISTYAKOV, N. A.

"Ulcers of the Lower Leg and Their Treatment." Sub 17 Feb 47, First Moscow
Order of Lenin Medical Inst

Dissertations presented for degrees in science and engineering in Moscow
in 1947

SO: Sun No. 457, 18 Apr 55

CHISTYAKOV, N. E.

"Electrical Aviation Instruments," 1950.

CHISTYAKOV, N. F.

USSR/Miscellaneous - Radio stations

Card 1/1 Pub. 133 - 11/18

Authors : Chistyakov, N. F.

Title : How we aid the kolkhoz (agricultural) radio stations

Periodical : Vest. svyazi 12, 23-24, Dec 1954

Abstract : The work accomplished during the past four years by the Krasnodar radio relay station, in aiding of already existing and in the installation of new radio stations in the kolkhozes (farms) of that region, is described. Illustration.

Institution : ...

Submitted : ...

CHISTYAKOV, N. I.

"Ob uchete vliyaniya fazovogo zapazdyvaniya b usilitele na avtomati cheskuyu podstroyku," Elektrosvyaz', No.7, pp 27-29, 1940

CHISTYAKOV, N. I.

CHISTYAKOV, N. I.

Chistyakov, N. I. defended his Doctor's dissertation in the Moscow Aviation Institute im Ordzhonikidze, USSR, on 23 October 1946, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Remote Transmission and Servo Systems in Aircraft Navigation Instruments". Resume: Chistyakov advanced theoretical premises governing the calculation of remote ac and dc electric transmission for rational selection of circuits and parameters in the planning of navigation systems. He developed a theory of the types of remote transmissions least studied and of greatest interest. He investigated the basic factors determining servo-system operating conditions in navigation instruments and analyzed general principal circuits of compass units.

Official Opponents: Profs. V. K. Popov (Doctor of Technical Sciences); B. P. Aparov (Doctor of Technical Sciences); Ye. F. Antipov (Chief Designer of OKB).

SO: Elektrichestvo, No. 7, Moscow, August 1953, pp 87-92 (W/29844, 16 Apr 54)

CHISTYAKOV, N. I.

23209 K teorii potentsiometricheskikh distantSIONnykh peredach. Trudy mosc.
aviats. tekhnol. in-ta, vip. 6, 1949, c. 67-84.

SO: LETOPIS' NO. 31, 1949

CHISTYAKOV, N. I.

PHASE X

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 647 - X

Call No.: AF365217

BOOK

Author: CHISTYAKOV, N. I.

Full Title: AIRCRAFT ELECTRICAL INSTRUMENTS

Transliterated Title: Elektricheskiye aviatsionnyye pribory

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry
(Oborongiz)

Date: 1950

No. pp.: 465

No. of copies: 6,000

Editorial Staff: None

PURPOSE AND EVALUATION: This is a textbook approved by the Ministry of Higher Education of the USSR for students of technical institutions of higher learning. It may be also useful to industrial engineering technical workers who calculate, design, test and operate aircraft instruments. The book is interesting as a compilation of a considerable amount of material necessary for the understanding of modern aircraft equipment. Apparently it does not describe original solutions or achievements and its interest is only instructional.

TEXT DATA

Coverage: This book is a compilation of general problems on the design of electrical and magnetic aircraft instruments. The detailed table

AID 647 - X

Elektricheskiye aviatsionnyye pribory

	Pages
Ch. VIII Self-Balancing Potentiometric Remote Indicating Systems	146-159
Ch. IX A-C Remote Control Systems	160-204
Ch. X Remote Control Systems for Aircraft Instruments and Apparatus	205-209
Ch. XI Level-Indicating Systems	210-218
Ch. XII Tachometers	219-241
Ch. XIII Fuel Consumption Meters	242-249
Ch. XIV Fundamentals of the Theory of Feedback Control Systems	250-320
Ch. XV Feedback Control Systems for Aircraft	321-383
Ch. XVI Remote Indicating Magnetic Compasses	384-401
Ch. XVII Electrical Elements of Gyro Instruments	402-434
Ch. XVIII Aircraft Gyro-Compass Systems	435-472
Ch. XIX Automatic Position Calculators	473-508
Ch. XX Radio-Navigation Instruments	509-527
Bibliography	528-531

No. of References: 82 Russian, 1932-1950.

Facilities: A number of scientists and several institutions of higher learning are mentioned in the preface and introduction.

USSR/Physics - Differential Analyzers; May/Jun 51
Electronic Switches

"A Note to the Editors of the Journal 'Avtomatika i Telemekhanika'" N. I. Chistyakov, Dr Tech Sci, Pres of Committee on Electronic and Radioceng Equipment, All-Union Sci Tech Soc of Instr Bldg

"Avtomat i Telemekh" Vol XII, No 3, p 231

States that Watkin's differential amplitude analyzer (described in "The Rev of Sci Instruments" No 7, 1949) is based entirely on L. A. Doncharskiy's amplitude selection (described in "Avtomat i Telemekh" No 3, 1936). Points out Soviet priority in the field of

21 5762

electron-ray commutator design and other allied instruments. (A note from the editors confirms the above assertions.)

CHISTYAKOV, N.I.

21 5762

Stapled and
being removed.

1. ONT(68-67) EMP(m)/EMP(t)/EMI LJP(c) JD

ACC NR: 1/0020135

SOURCE CODE: UR/0048/66/030/006/1065/1067

AUTHOR: Salunskiy, N.M.; Chistyakov, N.S.; Prolov, G.I.

ORG: Institute of Physics, Siberian Section, Academy of Sciences, SSSR (Institut fiziki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Concerning investigation of the nature of the weakfield pulse switching process in thin ferromagnetic films / Report, All-Union Conference on the Physics of Ferro- and Antiferromagnetism held 2-7 July 1965 in Sverdlovsk

SOURCE: AN SSSR. Izvestiya. Soriya fizicheskaya, v. 30, no. 6, 1966, 1065-1067

TOPIC TAGS: ferromagnetic film, magnetization, magnetic susceptibility, microwave, Permalloy

ABSTRACT: It is suggested that the changes in the uhf susceptibility of thin ferromagnetic films during pulsed switching be employed, in addition to the signals picked up by the usual longitudinal and transverse windings, in investigations of the switching mechanism. It is shown with the aid of the expressions of N.S.Chistyakov and V.A. Ignatchenko (Izv. AN SSSR, Ser. fiz., 30, No. 1, 59 (1966)) for the uhf susceptibility at frequencies far from the ferromagnetic resonance, that the uhf susceptibility does not change during switching by domain wall displacement but does change during switching by magnetization rotation, even when the rotation is symmetrically bilateral (half the magnetization rotating clockwise and half, counterclockwise). The use of both

Card 1/2

L 08768-67

ACC NR: AP6029135

pick-up coils and the uhf susceptibility, therefore, makes it possible to distinguish between the magnetization change due to domain wall displacement and that due to rotation. Curves of the uhf susceptibility of a 1500 Å Permalloy film recorded during switching with a 10 Oe pulse are presented as an illustration of the feasibility of the proposed technique. To record these curves the film was mounted near the end wall of a resonant cavity which was in a side arm of a T bridge and was excited at 9 MHz in the H_{102} mode. Orig. art. has: 1 formula and 3 figures.

SUB CODE: 20

SUBM DATE: 00

ORIG. REF: 002

OTH REF: 002

2/2 bc

CHISTYAKOV, N. I.

Radionriem i Rabota Radionriemnika (Radio Reception and the Work of a Radio Receiver)

By N. I. CHISTYAKOV, a textbook for those studying radio by correspondence, 2d edition, Military Publishing House, 1953, 224 pages, price 6 rubles. (Krasnaya Zvezda, 4 Mar 54)

SO: SUM 175, 6 August 1954

CHISTYAKOV, N. I.

Radiotekhnika (Radio engineering). Moskva, Voenizdat, 1953. 479 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 7, Oct. 1954

TSYKIN, Georgiy Sergeyevich; CHISTYAKOV, N.I., redaktor; GALOYAN, M.A.,
SOKOLOVA, R.Ya., ~~tekhnicheskii redaktor~~

[Computation of the degrees of broad-banded and impulse amplification with simple high-frequency correction] Raschet stupeni shirokopolosnogo i impul'snogo usileniia s prostoi vysokochastotnoi korrektsiei. Moskva, Gos. izd-vo lit-ry po voprosam svyazi i radio, 1955. 79 p. (MLRA 9:2)
(Amplifiers, Electron-tube)

LEBEDEV, Vsevolod Leonidovich; GHISTYAKOV, N.I., otvestvennyy redaktor;
SOKOLOVA, R.Ya., tekhnicheskiy redaktor.

[Radio receivers] Radiopriemnye ustroistva. Izd. 2-e perer. i
dop. Moskva, Gos. izd-vo lit-ry po voprosam aviatsii i radio, 1955.
365 p. (MLRA 8:9)

(Radio--Receivers and reception)

CHISTYAKOV, N., professor, doktor tekhnicheskikh nauk.

Further mastery of ultra-short waves. Radio no.5:17-18 My'55.
(Radio, Short wave) (MLRA 8:6)

~~CHISTYAKOV, Nikolay Iosafovich, professor, doktor tekhnicheskikh nauk;~~

MATLIN, I.I., inzhener-polkovnik, redaktor; SRIENIS, N.V., tekhnicheskii redaktor.

[Radio reception and work of the radio receiver; manual for persons studying radio receivers with the aid of descriptions] Radiopriem i rabota radiopriemnika; posobie dlia izuchaiushchikh radiopriemniki po opisaniam. Izd. 3-e, dop. Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1956. 247 p.

(MIRA 9:6)

(Radio--Receivers and reception)

BARKAN, Vitaliy Fischelevich; ZHDANOV, Vasilii Konstantinovich; CHISTYAKOV, N.I., professor, doktor tekhnicheskikh nauk, retsenzent; ZUDAKIN, A.I., inzhener, redaktor; PETROVA, I.A., izdatel'skiy redaktor; ZUDAKIN, I.M., tekhnicheskiiy redaktor

[Radio receiver apparatus] Radiopriemnye ustroistva. Moskva, Gos. izd-vo obor. promyshl., 1956. 495 p. (MLRA 9:12)
(Radio--Receivers and reception)

CHISTYAKOV, Nikolay Iosafovich, doktor tekhnicheskikh nauk, professor;
~~BAKHTIN, Iosif, redaktor~~; GUBIN, M.I., tekhnicheskii redaktor

[Use of semiconductors in engineering] Primenenie poluprovodnikov
v tekhnike. Moskva, Izd-vo "Znanie," 1957. 31 p. (Vsesoiuznoe
obshchestvo po rasprostraneniю politicheskikh i nauchnykh znaniy.
Ser.4, no.15) (MLRA 10:7)
(Semiconductors)

CHISTYAKOV, NIKOLAY IOSAFDOVICH

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Call Nr: None given

Poluprovodniki i ikh primeneniye (Semiconductors and Their Use) Moscow,
Trudrezervizdat, 1957, 62 p. (Novaya tekhnika i peredovyye metody truda)

Ed.: Serebrennikova, L. A.; Scientific Ed.: Chetverikov, M. I.;
Tech. Ed.: Matusevich, E. L.

PURPOSE: The booklet is intended for teachers and technical instructors at the schools of the labor reserve. It could be of use to the technical engineering personnel and the qualified workers of industrial enterprises.

COVERAGE: The booklet describes in a popular form the properties of semiconductors and the physical principles of operation of various semiconductor devices, including rectifiers and amplifiers. Recent Soviet and non-Soviet achievements in the field of semiconductor technique are mentioned. Soviet scientists: Ioffe, A. F., Davydov, B. I., Lashkarev, V. Ye., Kolomiets, B. T., Frenkel', Ya. I., Tamm, I. Ye., and Vul, B. M., are mentioned as having carried out extensive investigations of semiconductor materials. There are 10 references, all of them Soviet.

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