

CHEYSHVILI, O.

"Polarization of Deuterons in Elastic Scattering by Nuclei,"

Tbilisi State Univ.

paper submitted at the A-U Conf. on Nuclear Reactions in Medium and Low Energy
Physics, Moscow, 19-27 Nov 1957.

83769

S/056/60/039/003/024/045
B006/B063

9.4300 (1035, 1138, 1143)

AUTHORS: Buishvili, L. L., Khutsishvili, G. R., Cheyshvili, O. D.TITLE: Magnetic Relaxation in Ferromagnetic Metals ¹PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 3(9), pp. 726-736

TEXT: In the present paper, the authors calculate the magnetic relaxation in ferromagnetics due to s-d-exchange interaction. They use a simplified model of the ferromagnetic metal, which is based on the assumption of two groups of electrons (conduction electrons and ferromagnetic electrons). The relaxation terms are determined in microscopic spin-wave approximation. The authors confine themselves to the simplest case of a cubic crystal (Fe, Ni), and \vec{H} (parallel to the z-axis) is assumed to be so large that the sample may be regarded as a single-domain crystal. First, the authors derive expressions for H_s and H_d , which are the magnetic fields (due to s-d interaction) acting upon the spin of the conduction electron and that of the ferromagnetic ion, respectively. For $V = -AS_d$ one obtains

$$H_s = AS_d/g_s\beta \text{ and } H_d = (3g_s Aq/8g_d\mu_0)H. \text{ Proceeding from the spin}$$

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Magnetic Relaxation in Ferromagnetic Metals

S/056/60/039/003/024/045
B006/B063

Hamiltonian of the conduction electron, the authors then derive the second quantization Hamiltonian as well as expressions for the energy spectrum of the conduction electron and for the energy of the ferromagnon. By use of the perturbation theory the authors study the variation of the ferromagnon distribution function $n(f)$ in time. The double absolute value of the sum of projections of all d-spins is expressed by L , and L_0 gives the equilibrium value of L . dL/dt and $\Delta n(f)$ are obtained with

$L_0 - L = 2 \sum_f \Delta n(f)$ and $|L_0 - L|/L_0 \ll 1$. The fact that the spins of the con-

duction electrons and the ferromagnetic spins interact not only with each other but also directly with the lattice is taken into account in the following. A number of special cases are calculated. The relaxation times T_{sd} and T_{ds} , which are defined by formula (29), are finally estimated for iron by means of the experimental value of the number of magnetons per iron atom (2.22). Thus, one obtains

$$\frac{1}{T_{sd}} = 2 \cdot 10^9 T \ln \frac{T}{0.8 + 1.3 \cdot 10^{-4} H} ; \quad \frac{1}{T_{ds}} = 10^9 \sqrt{T} ; \text{ these relations hold for}$$

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83769

Magnetic Relaxation in Ferromagnetic Metals

S/056/60/039/003/024/045
B006/B063

temperatures from 2 - 3°K to about 100°K. The following relation is found for the relaxation time of interaction between the spin of the conduction electrons and the lattice $T_{sl}: T_{sl} \sim 10^{-11}/(Ag)^2T$. The authors thank

M. I. Kaganov and V. G. Bar'yakhtar for discussions. A. I. Akhiezer, I. Ya. Pomeranchuk, S. V. Peletminskiy, and Ye. A. Turov are mentioned. There are 18 references: 8 Soviet, 8 US, 1 Japanese, and 1 French.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR
(Institute of Physics of the Academy of Sciences
Gruzinskaya SSR) X

SUBMITTED: April 7, 1960

Card 3/3

L 61043-65 EWI(1)/EWI(m)/EWP(t)/EWP(b)/EPF(c) Pr-4 IIP(c) JD

ACCESSION NR: AP5013912

UR/0056/65/048/005/1520/1525

AUTHOR: Kiknadze, L. V.; Mamaladze, Yu. G.; Cheyshvili, O. D.

TITLE: Concerning the vortex structure of rotating helium 21

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 5, 1965, 1520-1525 21

TOPIC TAGS: rotating helium, quantum liquid, superfluidity, quantum vortex, Onsager Feynman vortex

ABSTRACT: The rotation of superfluid liquid helium and its interaction with the motion of the Onsager-Feynman vortex filaments is considered on the basis of the phenomenological theory of liquid helium developed by V. L. Ginzburg and L. P. Pitayevskiy (ZhETF v. 34, 1240, 1958 and later papers by Pitayevskiy). It is shown, by analysis of the equations for the equilibrium rotation of liquid helium in a sufficiently large vessel, that the two-dimensional network of vortices produced in the rotating liquid helium can rotate about the axis of rotation of the normal component (the vessel). In fact, this is the only way in which it is possible to avoid the energy dissipation that is inevitable when there is relative motion between the vortices and the normal liquid in the helium. It is shown further that regions where the superfluid rotation is directly opposite to the rotation of the vessel exist in

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ACCESSION NR: AP5013912

the volume between the vortices. Extensive use is made of the analogy between the equations of motion of the superfluid, and the equations of the Ginzburg-Landau theory, used by A. A. Abrikosov (ZhETF v. 32, 1442, 1957), to explain the properties of superconductors of the second kind. This property of networks of quantum vortices is indicative of the principal difference between the wave function phases and the velocity potentials of the networks of geometrically identical classical and quantum vortices. This difference accounts for the capacity of the quantum vortices to create a rigid two-dimensional network. Orig. art. has: 14 formulas.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of Physics, Academy of Sciences, Georgian SSR)

SUBMITTED: 26Dec64

ENCL: 00

SUB CODE: ME, IC

NR REF SOV: 007

OTHER: 005

jll
Card 2/2

L h128-66 ENT(1)/ENT(m)/EPF(n)-2/EWA(h) IJP(c) AT

ACCESSION NR: AP5024714

UR/0056/65/049/003/0925/0929

AUTHOR: Mamaladze, Yu.G.; ^{44, 66} Kharadze, G.A.; ^{44, 65} Cheyshvili, O.D. ^{44, 65}

56
53
B

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v.49, no.3, 1965, 925-929

TITLE: Passage of polarized neutrons ^{19, 44, 55} thru a ^{21, 44, 55} superconductor in a mixed state

TOPIC TAGS: superconductor magnetic field, mixed state superconductor field, superconductor magnetic structure, polarized neutron beam method, superconductivity

ABSTRACT: The author develops a method for the determination of the two-dimensional periodic magnetic field structure known to exist in a second-kind superconductor in a mixed state. For a beam of monochromatic polarized neutrons passing through such a superconductor, the author finds that the beam directions resulting in depolarization maxima of the beam are related to the parameters of the two-dimensional internal field structure and its type of symmetry. This definite dependence is suggested for a method for the study of the two-dimensional lattice of Abrikosov vortices. One difficulty is seen in the narrowness of the beam depolarization maxima: their angular limits are of the order of $\Delta\theta \approx L/d$, where L is the average lattice

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L 4128-66

ACCESSION NR: AP5024714

3

spacing of the field structure and d is the sample thickness. This poses strict collimation requirements for the neutron beam. This problem is, however, alleviated by the use of the main (passing) rather than the diffracted beam proposed in other methods. The greatest difficulty is anticipated in the necessity of using superconductors with a "monocrystalline" vortex grating, which is more essential here than in neutron diffraction experiments. Numerical estimates on the basis of expressions developed in this work point to attainment of a ten percent polarization. Orig. art. has: 31 formulas. [18]

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of Physics, Academy of Sciences Georgian, SSR)

44.55

SUBMITTED: 17Apr65

ENCL: 00

SUB CODE: EMSS

NO REF SOV: 002

OTHER: 004

ATD PRESS: 4/27

Card 2/2

L 44408-66 EWT(1)

ACC NR: AR6023283

SOURCE CODE: UR/0058/66/000/003/E116/E116

AUTHOR: Cheyshvili, O. D.

49
B

ORG: none

TITLE: Changes in the magnon spectrum due to sd-interaction in ferrometals

SOURCE: Ref zh. Fizika, Abs. 3E889

REF SOURCE: Sb. Elektron. i ionnyye protsessy v tverd. telakh. No. 1 Tbilisi, Metsniyereba, 1964, 73-76

TOPIC TAGS: Green function, Hamiltonian, first approximation, perturbation theory, magnon spectrum, ferrous metal, conduction electron

ABSTRACT: The Hamiltonian interaction of conduction electrons and magnons is analyzed by the Green function method. The solution of the Dyson equation in the first approximation of the perturbation theory provides the magnon spectrum, taking into consideration the sd-interaction. The error is a conventional conical singularity. No comparison is made with other results. Yu. Irkhin. [Translation of abstract] [NT]

SUB CODE: 20/

Card 1/1

L 04072-67 EWT(1)/T IJP(c) AT

ACC NR: AT6026361 SOURCE CODE: UR/3208/65/000/001/0076/0080

AUTHOR: Cheyshvili, O. D.

48

B+1

ORG: none

TITLE: Electron-phonon interaction in a magnetic field at low temperatures. I.

SOURCE: An GruzSSR. Institut fiziki. Fizika nizkikh temperatur (Low temperature physics), no. 1. Tiflis, Izd-vo Metsniyereba, 1965, 76-80

TOPIC TAGS: magnetic field, phonon interaction

ABSTRACT: The article is a study of the change in the characteristics of the phonon spectrum as a function of the magnetic field. This change is particularly marked with strong magnetic fields, since the change in the Fermi surface in this case is considerable. The calculation is carried out by the known method of Green's functions at a temperature of absolute zero. Practically speaking, it is a question of temperatures much lower than the electron degeneracy temperature and the Debye temperature. To find the phonon spectrum, a solution is found to the Dyson equation for the Green's function of the phonon

$$D^{-1}(q, \omega) = D_0^{-1}(q, \omega) - \Pi(q, \omega). \quad (1)$$

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L 04072-67

ACC NR: AT6026361

On the above basis, the author proceeds to a mathematical solution of the problem posed. Orig. art. has: 12 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 002

kh

Card 2/2

L 17663-66 EWI(1)/EPF(n)-2/ETC(m)-6 WW/JW/GG

ACC NR: AP6003829

SOURCE CODE: UR/0386/65/002/003/0123/0125

AUTHORS: Mamaladze, Yu. G.; Cheyshvili, O. D.

ORG: Institute of Physics, Academy of Sciences, Georgian SSR
(Institut fiziki Akademii nauk Gruzinskoy SSR)

TITLE: Phenomenological wave function of a superfluid liquid in a porous medium

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 3, 1965, 123-125

TOPIC TAGS: wave function, superfluidity, liquid helium, quantum liquid

ABSTRACT: Inasmuch as earlier investigations have shown that the density of the superfluid component of stationary helium II vanishes when the dimensions of the vessel (gap, capillary, or other tubular vessel) drops below a certain critical value, the authors analyze the distribution of the density of a superfluid liquid in a porous medium, showing that the superfluid component in a porous medium bordering on

Card 1/2

L 17663-66

ACC NR: AP6003829

a free volume of a superfluid liquid is larger in the pores than in the free volume. Similar effects can be observed also in a partition with minute pores separating two volumes of a superfluid liquid. It is pointed out that this increase is connected with the propagation of the wave field of the condensate to neighboring regions, and is similar to the Josephson effect in superconductors. The difficulty connected with the need for taking into account the complicated boundary conditions is circumvented by averaging the wave function over a volume containing sufficiently many pores. The analysis is carried out for a configuration in which one half-space is porous and the other one is filled with liquid helium II. Orig. art. has: 5 formulas.

SUB CODE: 20/ SUBM DATE: 10Jun65/ ORIG REF: 001/ OTH REF: 001

Cord

2/2

ACC NR: ARG035055 SOURCE CODE: UR/0058/66/000/008/E074/E074

AUTHOR: Gurgenishvili, G. Ye.; Cheyshvili, O. D.

TITLE: On the shape and width of lines of diamagnetic resonance in semiconductors and semimetals in an intense magnetic field

SOURCE: Ref. zh. Fizika, Abs. 8E567

REF SOURCE: Sb. elektron. i ion. protsessy v tverd. telakh. No. 2, Tbilisi, Metsniyereba, 1965, 96-102

TOPIC TAGS: magnetic field, electron scattering, diamagnetic resonance, semiconductor, semimetal, magnetic resonance, acoustic phonon, dielectric, solid dielectric, conductivity

ABSTRACT: A study was made of the effect of electron scattering by acoustic phonons, on the shape and width of diamagnetic resonance lines. The basis for the operation is the Lakes expression for electroconductivity (RZh Fiz, 1958, No. 10, 27806). Computations are effected by the method of resolvents. A summation is made of the "principal" terms in a series with respect to the interaction constant,

Card 1/2

ACC NR: AR6035055

containing a resonance denominator. Conductivity is computed for a simple electron energy spectrum, both for a degenerated and a non-degenerated electron gas.

I. Korenblit. [Translation of abstract]

[SP]

SUB CODE: 20/

Card 2/2

ACC NR: AT7000187

ing a low probability of electron transition to another level during phonon emission or absorption, the equation for the absorption line width is obtained. The cases of Fermi distribution and Boltzman statistics are treated. Orig. art. has: 27 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 005

Card 2/2

KOBALADZE, S.G.; CHEYSHVILI, R.P.

Results of the use of chloracizin. Trudy Inst. klin.'i eksper.
kard. AN Gruz. SSR 8:441-443 '63. (MIRA 17:7)

1. Kafedra fakul'tetskoy terapii lechebnogo fakul'teta
Gosudarstvennogo meditsinskogo instituta, Tbilisi.

CHEYSHVILI, T.A., inzh.; NASARIDZE, D.S., inzh.; MEL'NIKOV, L.A., inzh.

The "Sakartvelo" self-propelled tea plucking machine. Trakt. i
sel'khoz mash. no.4:38-39 Ap '65. (MIRA 18:5)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po
sel'skokhozyaystvennoy tekhnike Gruzinskogo soveta narodnogo
khozyaystva (for Cheyshvili, Nasaridze). 2. Gruzinskaya
mashinoispytatel'naya stantsiya (for Mel'nikov).

CHEYSHVILI, V. L.

"Device for Automatic Distribution of Coagulant," Byul. Stroi. tekhn., 9, No.13,
1952

CHEYSHVILI, V.L.; KRYMSKIY, I.L.

Automatic reagent batch meter for use in purifying water for public industrial uses. Rats. i izobr. predl. v stroi. no.94:20-23 '54.
(MLRA 8:8)

1. Otdel ratsionalizatsii i izobretatel'stva Ministerstva stroitel'stva.
(Water---Purification)

Subject : USSR/Electricity AID P - 2065
Card 1/1 Pub. 26 - 7/29
Author : Cheyshvili, V. L., Kand. of Tech. Sci.
Title : Device measuring the earth-water mixture output
Periodical: Elek. sta., 4, 27-29, Ap 1955
Abstract : A special device installed in hydraulic-fill pipes for measuring the earth-water flow was designed and tested in the laboratory of the VNIIGS (All-Union Scientific Research Institute of the Hydrolysis and Sulphite Alcohol Industry). At present the same institution is designing these measuring devices for pipes 500, 600 and 700 mm in diameter. The designers founded the operation of the device on mathematical and hydraulic formulae. This device can be also used in a floating dredge. Some recommendations on the installation of the device are given. Three diagrams.
Institution: None
Submitted : No date

CHEYSHVILI, V. L.

USSR/Chemical Technology. Chemical Products and Their Application -- Water treatment. Sewage water, I-11

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5437

Author: Cheyshvili, V. L., Krymskiy, I. L.

Institution: All-Union Scientific Research Institute of Hydraulic Engineering and Sanitation Engineering Operations

Title: VNIIGS Automatic Coagulating Agent Measuring Device (Cheyshvili and Krymskiy Design)

Original

Publication: Sb. tr. Vses. n.-i. in-ta gidrotekhn. i san.-tekhn. rabot, 1955, No 6, 82-106

Abstract: Description of the fundamental hydromechanical and electric layouts and also of the design of the principal components of an automatic measuring device the operation of which is based on determination of the electric conductivity of water before and after addition thereto of the reagent. In the measuring device use is made of the principle of intermittent regulation. Flow of water through each electrolytic

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Water treatment. Sewage water, I-11

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5437

Abstract: cell ≥ 0.16 liter/second. On treatment of water having an alkalinity < 5 mg-equival. per liter, and additions of coagulating agent amounting to < 1 mg-equival. per liter, accuracy of measurement is within $\pm 2.5\%$. With additions of larger amounts of coagulating agent a special calibration of the scale is necessary.

Card 2/2

CHEYSHVILI, V L

PHASE I BOOK EXPLOITATION SOV/5319

Kremlyevskiy, P. P., Candidate of Technical Sciences, ed.

Teploenergeticheskkiye i khimiko-tekhnologicheskiye pribory i regulatory (Instruments and Regulators in Heat-Power and Chemical Engineering) Moscow, Mashgiz, 1962. 307 p. Errata slip inserted. 8,500 copies printed.

Ed. of Publishing House: G. A. Dudusov; Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on the Design and Operation of Machines, Leningrad Department, Mashgiz; F. I. Feitsov, Engineer.

PURPOSE: This book is intended for engineers and technicians who construct, design, and operate industrial instruments and regulators.

COVERAGE: The book deals with new investigations in the field of automatic checking and regulation of heat-power and chemical industrial processes.

The following problems are discussed: improvement of two-position control operation; effect of mass action and damping on proportional control; new proportional plus integral and programming electronic regulation systems; complete automation of open-hearth furnaces; automation of boilers with variable load capacity; measurement of pulsating flow; measurement of dust flow; ultrasonic and magnetic induction flowmeters; pneumatic compensating differential manometers; aggressive-fluid flowmeters; new magnetic and optical-concentric gas analyzers; concentration meters; and chlorine and coagulant regulators. The book is the fifth in a series containing reports on the investigations carried out by the Section on Heat-Engineering Control Instrumentation and Automation of the Leningradskoye otdeleniye Nauchno-tekhnicheskogo obshchestva prirodoispol'nitel'noy promyshlennosti (Leningrad Branch of the Scientific and Technical Society of the Instrument-Building Industry.) All the articles presented in this book were discussed either at sessions of the above section or at the conference on measurements of mechanical quantities called by the section, the VNIIM (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleeva, All-Union Scientific Research Institute of Metrology named D. I. Mendeleev), and the Leningradskiy dom metrologiy im. A. M. Gor'kogo (Leningrad Home for Scientists named A. M. Gor'kiy). No personalities are mentioned. There are 63 references: 41 Soviet, 20 English, and 4 German. References accompany most chapters.

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AVAILABLE: Library of Congress
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9-11-61

pulsating flow; measurement of dust flow, and...
induction flowmeters; pneumatic compensating differential manome-
ters; aggressive-fluid flowmeters; new magnetic and optical-acous-
tical gas analyzers; concentration meters; and chlorine and coagulant
regulators. The book is the fifth in a series containing reports on the
investigations carried out by the Section on Heat-Engineering Control
Instrumentation and Automation of the Leningradskoye atel'noye

CHEZENNYKH, N. (Lt. Col., Engr.)

"How the First Airplane in the World was Designed." Vest. Vozdush. Flota,
No. 1, 1949. ~~XXXXXXXXXX~~

ROGALEV, Aleksandr Vladimirovich; CHEZGANOV, L., red.; POPOVICHENKO, T.,
tekhn. red.

[Put every ruble to work; persist in lowering the cost of
apartment houses] Kazhdyi rubl' - v delo; nastoichivo ude-
shevliat' zhilishchnoe stroitel'stvo. Alma-Ata, Kazakhscoe
gos. izd-vo, 1962. 62 p. (MIRA 16:10)
(Apartment houses--Cost of construction)

S/048/62/026/006/023/028
B104/B102

AUTHORS: Beskrovnyy, I. M., Kuragina, I. A., and Chezganova, A. Ya.

TITLE: Automatic device for measuring conversion electron spectra by applying an electric displacement to the source

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 8, 1962, 1090-1092

TEXT: The device measures conversion electron spectra in small energy ranges subject to constant magnetic fields by applying an electric displacement (retarding or accelerating) to the particle source. The time of measurement is reduced, the process simplified, accuracy improved. The energy range of the device is 8 kev. For a given strength of magnetic field, it can be used for measuring spectral ranges extending over about 10% up to 100 kev, and spectral ranges extending over 1% up to 1 Mev. The counting rate, the steps in the bias voltages, and the exposure times are controlled from a panel. The bias voltages can be switched automatically. The bias voltage has steps of 2, 10, 50, and 100 v in the range between -4 and +4 kv, voltage fluctuations are smaller than $1 \cdot 10^{-4}$.

Card 1/2

Automatic device for measuring ...

S/048/62/026/008/023/028
B104/B102

There is 1 figure.



Card 2/2

BESKROVNIY, I.M.; KURAGINA, I.A.; CHEZGANOVA, A.Ya.

Automatic apparatus for measuring conversion electron spectra
by biasing the source. Izv. AN SSSR. Ser. fiz. 26 no.8:
1090-1092 Ag '62. (MIRA 15:11)
(Electrons--Spectra)

AID P - 3831

Subject : USSR/Mining
Card 1/1 Pub. 78 - 19/25
Author : Chezhidov, N. I.
Title : News in oil-well operation
Periodical : Neft. khoz., v. 33, #11, 86-88, N 1955
Abstract : Report on the 1955 achievements of the oil district management "Oktyabr'skneft'" in doubling oil output, decreasing costs by 2%, and increasing labor efficiency by 7%.
Institution : None
Submitted : No date

VAKHMISTROVA, M.P. Prinimali uchastiya: DEYEVA, Z.N.; YAKOVLEVA, A.F.
CHEZHIK, F.,, otv. za vypusk

[Reclamation of virgin and waste lands in Kazakhstan; bibliography]
Osvoenie tselinnykh i zaleshnykh zemel' Kazakhstana; ukazatel'
literatury. Alma-Ata, 1959. 162 p.

(MIRA 13:11)

1. Alma-Ata. Gosudarstvennaya respublikanskaya biblioteka.
(Bibliography--Kazakhstan--Reclamation of land)

Chezhih N.I.

ALEKSHYEV, Aleksandr Petrovich; KAPITANOVSKIY, Lev Nikolayevich; TASTEVAN, Yevgeniy Edmundovich; CHEZHNIK, Nikolay Ivanovich; SHPOLYANSKIY, Mikhail Naumovich; YERMOLAYEV, M.P., inzh., retsenzent; VOSKRESENSKIY, N.H., inzh., red.; TIKHANOV, A.Ya., tekhn.red.

[All-metal streetcars; design, manufacture, and operation] Tsel'no-metallicheskiy tramvainyi vagon; konstruktsiia, tekhnologiya proizvodstva i ekspluatatsiia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 287 p. (MIRA 11:7)
(Streetcars)

CHEZHIN, V.A., inzhener

Placing bridge spans with a cantilever crane. Transp. stroi. 5
no.7:32 S'55. (MLBA 8:12)

(Bridge construction)

CHEZHIN, V.A., inshener.

Experience in using precast concrete slabs with steel beams.
Transp.stroi. 6 no.1:17-19 Ja '56. (MLRA 9:5)
(Girders) (Concrete slabs)

CHEZHIN, V.A., inzhener.

~~Experience with using large block, rectangular, reinforced concrete.~~
Transp.stroi. 6 no.4:11-12 Ap '56. (MLRA 9:8)
(Culverts)

CHEZHIN, V.A., inzhener.

Using one-walled reinforced concrete spans for underpasses.

Transp. stroi. 6 no.8:13-15 Ag '56.

(MLRA 9:10)

(Underpasses)

Chezhin Vladimir Aleksandrovich

~~CHEZHIN Vladimir Aleksandrovich~~; BURKHARD, Eduard Eduardovich;

IOSILEVSKIY, Lev Izrailevich; YEVGRAFOV, G.K., prof., red.;

SOROKIN, N.N., inzh., red.; BOEROVA, Ye.N., tekhn.red.

[Constructing overpasses of prefabricated prestressed reinforced concrete] Opyt postroiiki puteprovoda iz predvaritel'no napriazhennogo sbornogo zhelezobetona. Pod red. G.K.Evgrafova. Moskva, Gos.transp. zhel-dor.izd-vo, 1957. 93 p. (MIRA 11:1)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR
(for Yevgrafov).
(Viaducts) (Prestressed concrete construction)

CHEZHIN, V.A.

Using completely prefabricated medium-span bridges. Transp.
stroi. 8 no.4:18-21 Ap '58. (MIRA 12:12)

1. Glavnyy inzhener Mostostroya No.6.
(Russia, Northern--Bridges--Foundations and piers)

~~CHEZHIN, V.A.~~

Footbridge of a new type. Transp. stroi. 8 no.10:28-29 0 '58.
(MIRA 11:11)

1. Glavnyy inzhener Mostostroya No.6.
(Bridges, Concrete)

AR'YEV, Yuriy Alekseyevich; LUGA, Aleksandr Aleksandrovich; PAVLUSHKOV,
Vladimir Vsevolodovich; SOBAKIN, Aleksandr Vladimirovich;
CHEZHIN, Vladimir Aleksandrovich; SERGNYEV, A.F., red.; GALAKTIONOVA,
Ye.N., tekhn.red.

[Constructing large bridges with supports on pile rafts] Postroika
bol'shogo mosta s oporami na svainykh rostverkek. Moskva, Nauchno-
tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR,
1959. 50 p. (MIRA 13:4)

(Bridges--Foundations and piers)

CHEZHIN, V.A.

Single-walled prestressed reinforced concrete bridge span.
Transp.stroi. 9 no.2:27-30 F.'59. (MIRA 12:5)
(Bridges, Concrete)
(Prestressed concrete construction)

CHEZHIN, V.A.

Using industrial methods in reconstructing bridges. Transp.
stroj. 9 no.5:24-26 My '59. (MIRA 12:12)

1. Glavnyy inzhener Mostostroya No.6.
(Truhitsa River--Bridges, Concrete)

CHEZHIN, V.A.

Using centrifuged shells in building trestles for supply
yards. Transp.stroi. 9 no.10:31-32 0 '59. (MIRA 13:2)

1. Glavnyy inshener Mostostroya No.6.
(Trestles) (Precast concrete construction)

CHEZHIN, V.A., inzh.; TAMAROV, P.B., inzh.

Experimental l_p 26.7 m span structure with reinforcing
bundles placed in open channels. Transp.stroi. 10 no.2:
24-26 F '60. (MIRA 13:5)
(Railroad bridges)

YEVDONIN, A.S.; CHEZHIN, V.A.

Competition for the best design of a bridge over the Neva River.
Transp.stroi. 10 no.6:9-13 Je '60. (MIRA 13:7)

1. Glavnyy inshener proyekta Lentransmostproyekta (for Yevdonin).
2. Glavnyy inshener Mostostroya No 6 (for Chezhin).
(Leningrad--Bridges--Design)

VALUYEV, I.P.; CHEZHIN, V.A.

Replacing a 55-m metal span structure by a precast reinforced-concrete span bridge. Transp. stroi. 10 no.11:13-17 N '60.
(MIRA 13:11)

1. Glavnyy inzhener proyekta Giprottransmosta (for Valuyev). 2. Glavnyy inzhener Mostostroya No.6 (for Chezhin).
(Bula River--Railroad bridges)

AR'YEV, Yu.A., inzh.; PAVLUSHKOV, V.V., inzh.; CHEZNIK, V.A., inzh.

Cantilever erection of reinforced-concrete spans made of
blocks with dry seams. Transp. stroi. 13 no.1:17-22 Ja '63
(MIRA 18:2)

TER-MIKAKLYAN, F. M., insh.; CHEZHIN, V. A., insh.

Widening the base of shell piles in cohesive soils. Transp.
stroi. 13 no.3:12-17 Mr '63. (MIRA 16:4)

(Bridges--Foundations and piers)

AR'YEV, Yuriy Alekseyevich; PAVLUSHKOV, Vladimir Vsevolodovich;
CHEZHIN, Vladimir Aleksandrovich; IVANOVSKAYA, K.M., red.

[Cantilever erection of reinforced concrete bridges] So-
oruzhenie zhelezobetonnoho mosta navesnoi sborkoi. Mo-
skva, Transport, 1965. 31 p. (MIRA 18:4)

L 26462-66

ACC NR: AP6017379

SOURCE CODE: UR/0230/65/000/011/0010/0012

AUTHOR: Cheshin, V. A. (Engineer); Labetskiy, K. I. (Engineer)

12
B

ORG: none

TITLE: Construction of a reinforced concrete bridge at Volkhov

SOURCE: Transportnoye stroitel'stvo, no. 11, 1965, 10-12

TOPIC TAGS: reinforced concrete, railway bridge, highway bridge

ABSTRACT: A description of the construction of a 328.6-m bridge, 10 meters wide including two 1.5-m sidewalks, over the Volkhov river. The bottom at the point of crossing is fissured limestone, covered with sand. The prestressed reinforced concrete sections were prepared onsite. The methods used for sinking the piles into the bottom are described. Sectional drawings of the bridge, plus photographs of the individual spans (each 85 m long) and the entire bridge partially completed are presented. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 13, 11 / SUBM DATE: none / ORIG REF: .001

Card 1/1

PB

UDC: 624.21.8

2

KLESHCHEV, Pavel Yegorovich, inzh.; MURASHEV, Anatoliy Nikolayevich,
inzh.; CHEZGANOV, L., red.; TURABAYEV, B., tekhn.red.

[Coal mining in the Karaganda Basin from under existing
structures] Vyemka uгля pod sooruzheniyami v Karagandin-
skom basseine. Alma-Ata, Kazgosizdat, 1963. 194 p.
(MIRA 17:2)

ZAYTSEVA, G.I., dotsent; CHEZHINA, A.I. (Leningrad)

Organization of control measures for reducing child mortality
in a consolidated region. Sov. zdrav. 21 no.9:22-29 '62
(MIRA 17:4)

1. Iz 2-y kafedry padiatrii (zav. - dotsent G.I. Zaytseva)
Leningradskogo instituta usovershenstvovaniya vrachey imeni
S.M.Kirova i ob'yedineniya Leningradskoy detskoy bol'nitsy
imeni N.K.Krupskoy (glavnyy vrach - zaslushennyy vrach RSFSR
A.I.Chezhina).

GUREVICH, Viktor Zalmanovich; DEMIDOV, Nikolay Alekseyevich;
CHIPKOVA, V.G., inzh., retsenzent; MINDIN, G.P., kand.
tekhn. nauk, nauchn. red. ALESHIN, N.I., inzh., red.; CHFAS, M..A,
red.

[Electric heating installations of ships] Sudovye elektro-
nagrevatel'nye ustroystva. Leningrad, Sudostroenie, 1965.
243 p. (MIRA 18:8)

KURNOSOV, Anatoliy Ivanovich; YUDIN, Vladimir Vasil'yevich;
ALFEROV, Zh.I., kand. tekhn. nauk, retsenzent;
MITROFANOV, V.V., inzh., retsenzent; PASYNKOV, V.V.,
prof., doktor tekhn. nauk, nauchn. red.; CHFAS, M.A.,
red.; KVOCHKINA, G.P., red.

[Technology of the manufacture of semiconductor devices]
Tekhnologiya proizvodstva poluprovodnikovyykh priborov.
Leningrad, Sudostroenie, 1965. 247 p. (MIRA 18:8)

KONSTANTINOV, Vasilii Nikolayevich; VILESOV, D.V., doktor tekhn.
nauk prof., retsenzent; KUZNETSOV, N.A., Laureat Gos.
premi, retsenzent; SUPRUN, G.F., doktor tekhn.nauk
nauchn. red.; CHEAS, M.A., red.

[Synchronization of marine synchronous generators] Sin-
khronizatsiia sudovykh sinkhronnykh generatorov. Lenin-
grad, Sudostroenie, 1965. 289 p. (MIRA 19:1)

KROPIVNITSKIY, N.N.; BYCHKOV, P.P., kand. tekhn. nauk, retsenzent;
SHUBAYEV, Yu.S., inzh., retsenzent; BLYUMBERG, V.A.,
kand. tekhn. nauk, red.; CHFAS, M.A., red.izd-va;
VARKOVETSKAYA, A.I., red.izd-va; BARDINA, A.A., tekhn. red.

[General course in machine-shop practice] Obshchii kurs
slesarnogo dela. Moskva, Mashgiz, 1963. 407 p.
(MIRA 17:2)

SHPRINTSIN, Viktor Nikolayevich; ALEKSEYEV, V.M., kand. tekhn.
nauk, retsenzent; YERMOLIN, L.P., kand. tekhn. nauk,
nauchn. red.; CHFAS, M.A., red.

[Marine shaft-driven generators] Sudovye valogeneratory.
Leningrad, Sudostroenie, 1965. 236 p. (MIRA 18:4)

~~CHGUNOV, S.A.~~

[Clinical electroencephalography] Klinicheskaya elektorentsefalografii. 2. izd., ispr. i dop. Moskva, Medgiz, 1956. 390 p.
(ELECTROENCEPHALOGRAPHY) (MLRA 10:3)

VOSTRYAKOV, A.V., MIZINOV, I.V., MOSEVITIN, A.I., CHGURYAYEVA, A.A.

Climatic conditions of the archagyl stage based on new lithological and micropaleobotanical investigations in the southern trans-Volga region. Dokl. AN SSSR 105 no.1:144-146 N '55. (MLRA 9:3)

1. Institut geologicheskikh nauk Akademii nauk SSSR. Predstavleno akademikom N.M. Strakhevym. (Volga Valley--Paleobotany) (Paleoclimatology)

CHIAERASHVILI, Ye.A.

Preliminary data on the development of some echinostomata of poultry. Soob. AN Gruz. SSR 15 no.5:287-293 '54.

(MIRA 8:6)

1. Tbiliskiy gosudarstvennyy universitet im. Stalina. Predstavleno chlenom-korrespondentom Akademii L.P.Kalandadze.
(Trematoda) (Parasites--Birds)

USSR

G

Abs Jour : Ref Zhur - - Biologiya, No 22, 1958, No 99538

Author : Chiaberashvili, Ye A.

Inst : Georgian Zootechnical Veterinary Institute

Title : On the Study of the Parasitofauna of Some Species of Fresh Water Fish of the Georgian SSR.

Orig Pub : V sb. :Materialy 13-y Nauchn.konferentsii (Gruz.zootekhn. vet.in-t) Part 2. Tbilisi, 1957,45-50.

Abstract : 103 species of parasites were registered in autopsies of 2,000 fish of 54 species from rivers and lakes of western and eastern Georgia (97 species observed for the 1st time in the reservoirs of Georgia), viz., 11 species of Myxosporidia, one species of Microsporidia, two species of Infusoria, 30 species of monogenetic and 18 species of digenetic Trematoda, 9 species of Cestoda, 15 species of Nematoda, 8 species of Acanthocephala, three species of leeches, 1 species of mollusks and 5 species of parasitic crawfish. A list of parasites according to hosts is given.

Card 1/1

VASILIEV, R.; CHIALDA, I.; ANASTASESCU, Gr.

Complexometric determination of phosphorus in the Hepatonic products. Rev chimie Min petr 14 no.6:351 Je '63.

1. Institutul pentru controlul de stat al medicamentelor si cercetari farmaceutice.

VASILIEV, R.; SCINTEE, V.; CHIALDA, I.; SISMAN, E.; FRUCHTER, J.;
JECU, M.

Identification and determination of antipyrine pyramidon, and
novalgin in the mixtures which contain these three components.
Rev chimie Min petr 13 no.12:759-760 D '62.

1. Institutul pentru controlul de stat al medicamentelor si
cercetari farmaceutice.

CHIALE, R.

RUM

✓ Polarographic determination of 5-nitro-2-furaldehyde semicarbazone. A. Miss and Roxandra Chiale. Rev. Chim. (Bucharest) 6, 41-6 (1965). Polarograms were made of aq. solns. of 5-nitro-2-furaldehyde semicarbazone (I) in the absence of O by using a Heyrovsky polarograph. Two stages were observed, the first corresponding to NO₂ and the 2nd to CH₂NHCONH₂. The optimum pH was 2.9-3.2 obtained by addn. of AcOH. Gelatin was the protective colloid at the 2nd stage. Minute amts. of I can be detd. by this method. Gerard Aullger.

at of

KHAMRAKULOV, B.Yu.; CHIANUROV, D.A.

Photometric determination of the rate of blood coagulation. Trudy
UsGU no. 88:87-89 '59. (MIRA 14:4)
(Blood—Coagulation) (Photometry)

KHAMRAKULOV, B.Yu.; CHIANUROV, D.A.

Toxic effect of Zygothylaceae on the organism of animals. Trudy
UzGU no.110:79-84 '61. (MIRA 15:3)
(Samarkand region--Zygothylaceae--Toxicology)

KHAMRAKULOV, B.Yu.; CHIANUROV, D.A.

Effect of the infusion of *Zygophyllum fabago* G. on the cardiovascular system of animals (preliminary report). Trudy UzGu no.110:85-92 '61. (MIRA 15:3)

(Zygophyllaceae--Toxicology)

CHIAPAC, Oldrich

Favorable environment in operating rooms. Rozhl. chir. 40
no.12:765-769 '61.

1. Studijni a typizacni ustav v Praze.
(OPERATING ROOMS)

CHIAURELI, G.I., redaktor

[Views of the Georgian S.S.R.] V'dy Gruzinskoi SSR. Tbilisi,
Izd-vo Tresta Khudozhestennykh izdelii Gruzii Ministerstva Kul'-
tury Gruzinskoi SSR, 1954. [21 p. chiefly illus]. (MLRA 8:8)
(Georgia--Views)

SKOPETS, Z.A. (Yaroslavl'); OSTROVSKIY, A.I. (Moskva); BESEIN, L.N. (Moskva);
BALK, M.B. (Smolensk); BORSUK, M.V. (L'viv); BYKOV, A.M. (Baku);
CHAN'TURIYA, Z.A. (Tbilisi); NOVIKOVA, V.S. (Orekhovo-Zuyevo); DUBNOV,
Ya.S. (Moskva); STECHKIN, S.B. (Moskva); KHAVIN, I.P. (Leningrad);
FERDNIYEV, P. (Stavropol'); CHIAREULI, D.L. (GruzSSR); ASEKRITOV, U.H.
(Yaroslavl'); GOLUBEV, V.A. (Kuvshinovo); MALININ, V.V. (Leningrad);
DAVIDOV, U. (Gomel'); ROZEMBERG, V.I. (Leningrad); TIKHONOV, P.G.
(Karaganda); ROMANCHUK, N.A. (Khar'kov); MINLOS, R.A. (Moskva); OGAY,
S.V. (Frunze); ROFE-BEKETOV, F.S.; BERSHTEYN, A. (Moskva); ARLAZAROV,
V.L. (Moskva)

Solutions to problems. Mat.pros. no.4:253-270 '53.

(Mathematics--Problems, exercises, etc.) (MIRA 12:11)

IMENITOV, V.R., prof., doktor tekhn. nauk; CHIAYEV, T.I., gornyy inzh.;
INFANT'YEV, A.N.

Investigating the behavior of sand and clay depositions in
the mining of iron ore deposits in the Kursk Magnetic Anomaly.
Gor. zhur. no.9:22-23 S '64. (MIRA 17:12)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki
(for Imenitov, Chiayev). 2. Direktor Yakovlevskogo rudnika
Kurskoy magnitnoy anomalii (for Infant'yev).

CHIBALIN, A.I., inzh.; IYUDIN, P.N., kand. tekhn. nauk

Improving the parameters and design of electric hand drills.
Ugol' 38 no.1:32-35 Ja '63. (MIRA 18:3)

1. Zavod "Krasnyy metallist" (for Chibalin). 2. Moskovskiy
institut radioelektroniki i gornoy elektromekhaniki (for
Iyudin).

Effect of chlorinated water, calcium hypochlorite, chloramine, and iodine on the vitality of *Entamoeba dysenteriae*. Tsch. Simitch, S. Ransinc, Zl. Petrovitch, D. Chibaltich, and Lj. Jankov (Inst. Parasitol., Belgrade). *Arch. Inst. Pasteur Algerie* 34, 205-17(1958).—Suspensions of feces contg. *E. dysenteriae* were dild. in distd. or tap water (0.18-2.4 mg. of N/l., and 5-83 mg. $KMnO_4$ equiv. org. matter/l.) to 1/1000-1/40,000; treated with 15-20 mg. I/l., chlorinated water (10 mg. of Cl/l.), $Ca(OCl)_2$ (10 mg. of Cl/l.), or chloramine (20 mg. Cl/l.), and cysts were counted. $Ca(OCl)_2$ gave the safest amebicidal effect.

Geo. Sag

5

CHIBELEANU, A., ing.

Kinematic relations in frame saws. Ind lemnului 14 no.3:90-94
Mr '63.

USSR/Zooparasitology - Helminths.

G.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67501

Author : Gagarin, V.G., Ablasov, N.A., ~~Chibichenko, N.T.~~

Inst : Academy of Sciences KirgSSR, Institute of Zoology and Parasitology.

Title : Helminthofauna of Wild Ducks of the South of Kirgizia.

Orig Pub : Tr. In-ta zool. i parazitol. AN KirgSSR, 1957, No 6, 105-120.

Abstract : When 400 ducks of 42 species were opened in the Bazar-Kurganskiy rayon, Dzhahalal-Abadskaya Oblast' (1954-1955), 75 species of helminths were registered (13 species of trematodes, 21 of cestodes, 30 of nematodes, and 2 species of proboscis worms). Described is the new nematode *Diplo-trianna tinnunculi* (Filariidae) and the new trematode *Brachylecithum schamurati* (Microcoelidae).

Card 1/1

- 10 -

ABLASOV, N.A. ; CHIBICHENKO, N.T.

Materials on trematodes of birds in Kirghizistan. Izv. AN Kir.-
SSR. Ser. biol. nauk 2 no.7:149-167 '60. (MIRA 14:6)
(KIRGHIZISTAN—TREMATODA) (PARASITES—BIRDS)

CHIBICHENKO, N.T.

Helminths occurring in wild birds of Kirghizistan. Izv. AN Kir.
SSR. Ser. biol. nauk 2 no.7:169-175 '60. (MIRA 14:6)
(ISSYK-KUL' REGION--WORMS, INTESTINAL AND PARASITIC)
(TIEN SHAN PROVINCE--WORMS, INTESTINAL AND PARASITIC)
(PARASITES--BIRDS)

ABLASOV, N.A.; IKSANOV, K.I.; CHIBICHENKO, N.T.

Brief report on helminths infesting pink pelicans in Lake Balkhash.
Izv. AN Kir. SSR. Ser. biol. nauk 2 no.7:181-182 '60. (MIRA 14:6)
(BALKHASH, LAKE—WORMS, INTESTINAL AND PARASITIC)
(PARASITES—PELICANS)

ABLASOV, N.A.; CHIBICHENKO, N.T.

Helminths parasitic in the suborder Otides in Kirghizistan.
Izv. AN Kir. SSR Ser. biol. nauk 4 no.5:115-116 '62.

(MIRA 16:6)

1. Laboratoriya gel'mintologii (rukovoditel' kand. veter.
nauk V.G. Gagarin) AN Kirgizskoy SSR.

(Kirghizistan--Parasites--Bustards)

(Kirghizistan--Worms, Intestinal and parasitic)

CHIBICHENKO, N.T.

A short report on mollusks as intermediate hosts of helminths
of water birds. Izv. AN Kir. SSR. Ser. biol. nauk 6 no.2:
83-85 '64
(MIRA 17:7)

BABARIN, P.M.; ROMANOVA, L.S.; CHIBICH'YAN, D.A.

Changes in the blood cholesterol content in middle-aged and elderly persons under the influence of physical exercise.
Sovet. med. 26 no.5:109-111 My'63 (MIRA 17:1)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo instituta fizicheskoy kul'tury, Moskva.

VOROPAYEVA, A.V.; CHIBILYAYEV, Kh.Sh.

Syntheses in the pyridine series. Part 6: Addition of
thiopyridones to α,β -unsaturated compounds. Zhur. ob. khim.
34 no. 5:1548-1550 My '64. (MIRA 17:7)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

CHIBINOV, M.

New material for pump seals. Posh.delo 6 no.8:25
Ag '60. (MIRA 13:8)

1. Nachal'nik posharnoy komandy, Pakovskaya oblast'.
(Pumping machinery) (Sealing(technology))

AUTHORS: Chibiras, L., Dzhiaukshtas, P. (Kaunas) and Nekrasov, V. (Moskva) SOV-26-58-9-28/42

TITLE: A Rare Lime-Tree (Redkaya lipa)

PERIODICAL: Priroda, 1958, Nr 9, pp 111-112 (USSR)

ABSTRACT: There is a rare specimen of a big-leaved lime tree *Tilia platyphyllos* f. *laciniata* C. Koch (fig. 1) in the park of the dairy technical school "Bel'vederis" in the Lithuanian Vil'ki District. It has 3 kinds of leaves (fig. 2), pinnately lobed, entire-margined and intermediate stages. The tree has 3 trunks emerging from a common base and is 18 m high with a diameter of the tree top of 11.5 m. The phenomenon of the leaves seems to be a true mutation. Seeds are gathered from each branch separately, in order to prove this hypothesis. The same will be done by way of vegetative propagation. The phenomenon of pinnately lobed lime tree leaves has also been recorded in other individual trees of other parks in the Lithuanian Republic. There are 2 photos.

Card 1/2

SOV-26-58-9-28/42

A Rare Lime-Tree

ASSOCIATION: Litovskiy nauchno-issledovatel'skiy institut lesnogo khoz-
yaystva /Kaunas (The Lithuanian Scientific Research Institute
of the Forest Economy /Kaunas) Institut lesa Akademii nauk
SSSR /Moskva (The Forest Institute AS USSR /Moscow)

1. Trees--Lithuania

Card 2/2

CHIBIREKE, I.

"Congenital Toxoplasmosis as One of the Reasons for Complicated Strabismus"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis, Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

Chibireva, M. Ye

USSR/Inorganic Chemistry. Complex Compounds

C

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26436

Author : Tronev, V.G., Chibireva, M. Ye.

Inst :
Title : Volatility of Germanium in Flow of Gases.

Orig Pub : Zh. neorgan. khimii, 1956, 1, No. 10,
2278 - 2282.

Abstract : It is shown that powdered Ge is sublimated to 94 - 95% at 800 to 850° in a flow of N₂ containing 1% of O₂, or in a flow of Ar containing 0.25% of N₂ and 0.03% of O₂. The sublimate contains 78% of Ge and up to 5% of N. The x-ray photograph of the sublimate indicates the presence of lines corresponding to a mixture of metallic Ge and GeO₂.

Card 1/1

CHIBIREVA, V.

Scientists help manufacturers. MTO no.9:12-13 8 '59.
(MIRA 13:1)

1. Zamestitel' predsedatelya oblastnogo soveta Nauchno-tekhnicheskogo obshchestva g.Sverdlovsk.
(Sverdlovsk--Research, Industrial)

CHIBIREVA, V.

Workers and searchers. NTO 3 no.12:36 D '61. (MIRA 15:1)

1. Zamestitel' predsedatelya Sverdlevskogo oblastnogo soveta
nauchno-tehnicheskikh obshchestv.

(Sverdlevsk--Industry--Technological innovations)

GHIBIROV, Khristafor Tadiosovich; BOGAZOV, U.A., red.; BAYMATOV, P.S.,
tekh.n.red.

[Northern Ossetia in the fraternal family of U.S.S.R. peoples]
Severnaia Osetia v bratskoi sem'e narodov SSSR. Ordzhonikidze,
Severo-Osetinskoe knizhnoe izd-vo, 1956. 46 p. (MIRA 13:4)
(Ossetia--Economic conditions)

CHIBIROV, Khristofor Tadeozovich; GUSALOV, Nikolay Aleksandrovich; DZUSKAYEV,
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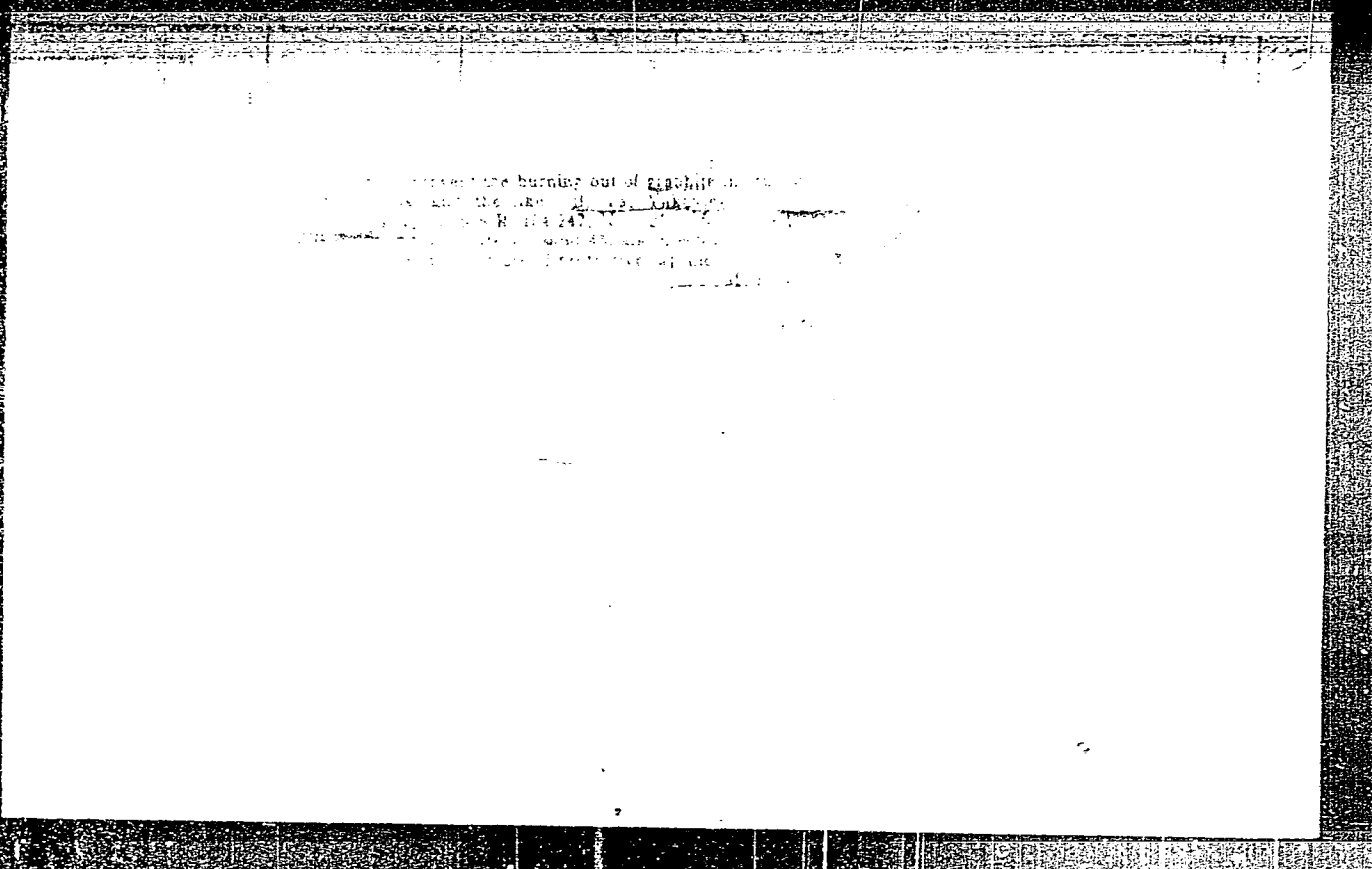
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