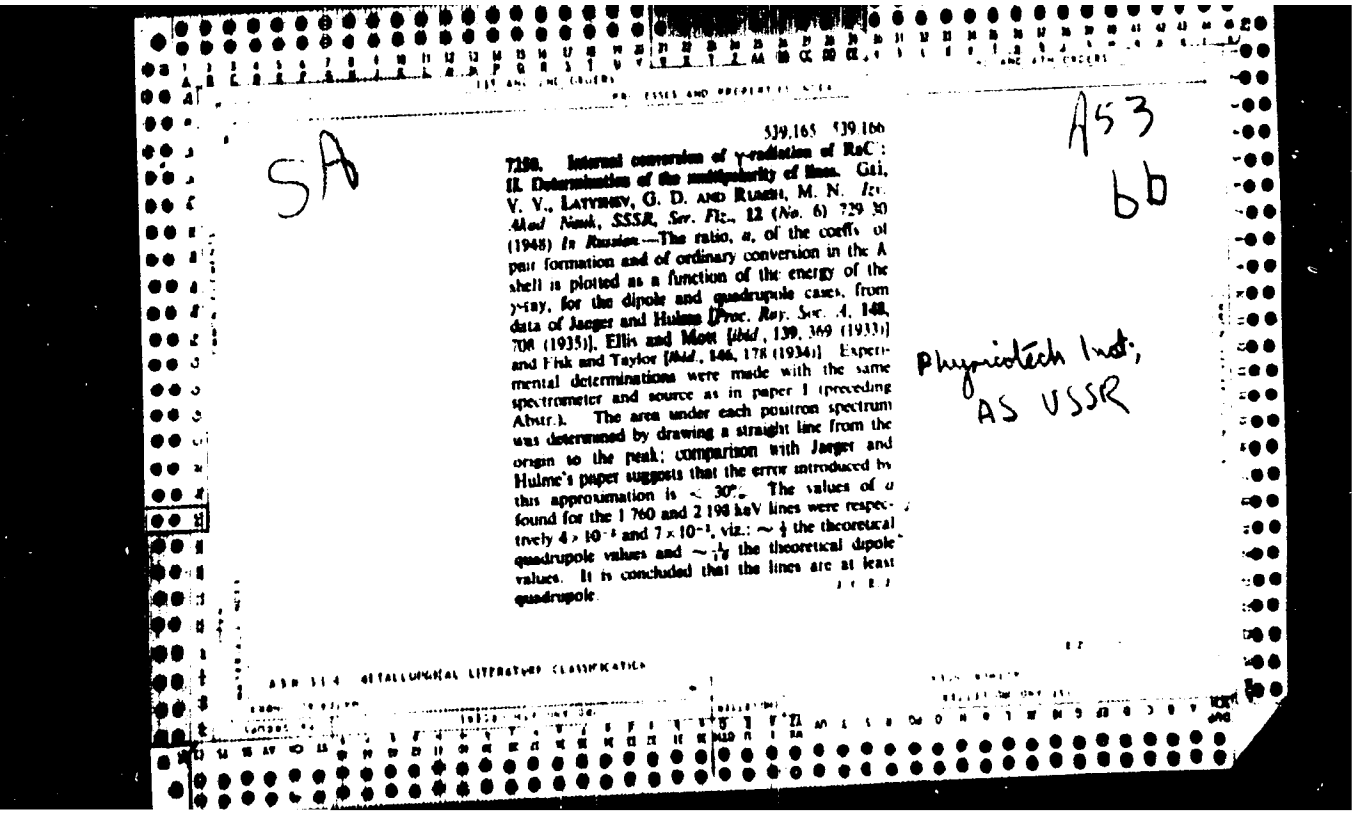

539.165 539.166

7198. **Internal conversion of γ-radiation of RaC': II. Determination of the multipolarity of lines.** Gai, V. V., Latyshev, G. D. and Rubin, M. N. *Izv. Akad. Nauk, SSSR, Ser. Fiz.*, 12 (No. 6) 729-30 (1948) *In Russian.*—The ratio, a, of the coeffs of pair formation and of ordinary conversion in the K shell is plotted as a function of the energy of the γ-ray, for the dipole and quadrupole cases, from data of Jaeger and Hulme [*Proc. Roy. Soc. A*, 148, 708 (1935)], Ellis and Mott [*ibid.*, 139, 369 (1933)] and Fisk and Taylor [*ibid.*, 146, 178 (1934)]. Experimental determinations were made with the same spectrometer and source as in paper I (preceding Abstr.). The area under each positron spectrum was determined by drawing a straight line from the origin to the peak; comparison with Jaeger and Hulme's paper suggests that the error introduced by this approximation is < 30%. The values of a found for the 1 760 and 2 198 keV lines were respectively 4×10^{-4} and 7×10^{-4}, viz.: $\sim \frac{1}{4}$ the theoretical quadrupole values and $\sim \frac{1}{10}$ the theoretical dipole values. It is concluded that the lines are at least quadrupole.

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539.165 . 539.166

7251. **Internal conversion of γ-radiation of RaC′: III. Ratio of the coefficients of [pair to K] conversion of γ-radiation in the case of forbidden transitions.** GRIGOR'EV, V. V., LATYSHEV, G. D. AND TSYPKIN, S. I. *Izv. Akad. Nauk. SSSR, Ser. Fiz.*, 12 (No. 6) 731 (1948) *In Russian*.—For the forbidden line 1 414 keV this has been calculated by Yukawa and Sakata [*Proc. Phys. Math. Soc. Japan* (Ser. 17) 10 (1935)] to be $\sim 3\times10^{-1}$ and by Thomas [*Phys. Rev.*, 58, 714 (1940)] to be $\sim 6\times10^{-3}$, whilst for forbidden quadrupole transitions at energies $\sim 3\ mc^2$ it would be $\sim 2\times10^{-3}$ and in the dipole case $\sim 2\times10^{-3}$. The authors determined the ratio experimentally by the means described in paper I, obtaining a $1\cdot6\times10^{-3}$. The area under the positron spectrum could not be in error by > 50%. They conclude that the true value must be closer to that of the theoretical paper first quoted than to that of the second. [For correction to the present paper see Abstr. 7253 (1949)].

J. C. E. J.

METALLURGICAL LITERATURE CLASSIFICATION

GEY, V.V.

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539.166

7252. Fine structure of γ-lines of RaC'. Gal, V. V., Latyshev, G. D. and Pasechnik, M. V. *Izv. Akad. Nauk, SSSR, Ser. Fiz.*, 12 (No. 6) 732-9 (1948). Short version in *Dokl. Akad. Nauk, SSSR*, 63 (No. 3) 239-42 (1948) *In Russian*.—Fine structure of the 2 198 keV γ-line was established [Abstr. 7249 (1949)] from the positron spectrum. With the same source and apparatus, the *K*-conversion β^- lines corresponding to E_γ = 1 414, 1 760 and 2 198 keV were now investigated. Graphs of these spectra are shown. The overall line widths agree satisfactorily with the above results and Latyshev [*J. Exp. Theor. Phys.*, 14, 63 (1944)]. All 3 lines show fine structure, the

VG

METALLURGICAL LITERATURE CLASSIFICATION

PA 25/49T85

GEY, V. V.

USSR/Nuclear Physics -- Gamma Rays Nov/Dec 48
Nuclear Physics -- Radioactivity

"Radioactivity of Be^7," V. V. Gey, G. D. Latyshev, S. I. Tsypkin, A. A. Yuzefovich, 3 pp

"Iz Ak Nauk SSSR, Ser Fiz" Vol XII, No 6

After measuring the gamma-radiation resulting from annihilation of matter, concludes that if there is a supplementary component in the composition of the gamma-radiation of Be^7, it does not result from annihilation of matter.

25/49T85

GEY, V. V.

PA 55/49T74

USSR/Nuclear Physics - Gamma Spectrum Nov 48
Nuclear Physics - Radium

"Fine Structure of the Gamma Lines of RaC," V. V. Gey, G. D. Latyshev, M. V. Pasechnik, Leningrad Physics Tech Inst, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 3, pp 339-342

To study complex structure of basic lines of the gamma spectrum of RaC, measured internal conversion lines of K-electrons for lines 1,414, 1,760, and 2,198 keV. Explained fine structure of gamma lines as a rotatory structure superimposed on basic lines connected with changes in the internal state of

55/49T74

USSR/Nuclear Physics - Gamma Spectrum Nov 48
(Contd)

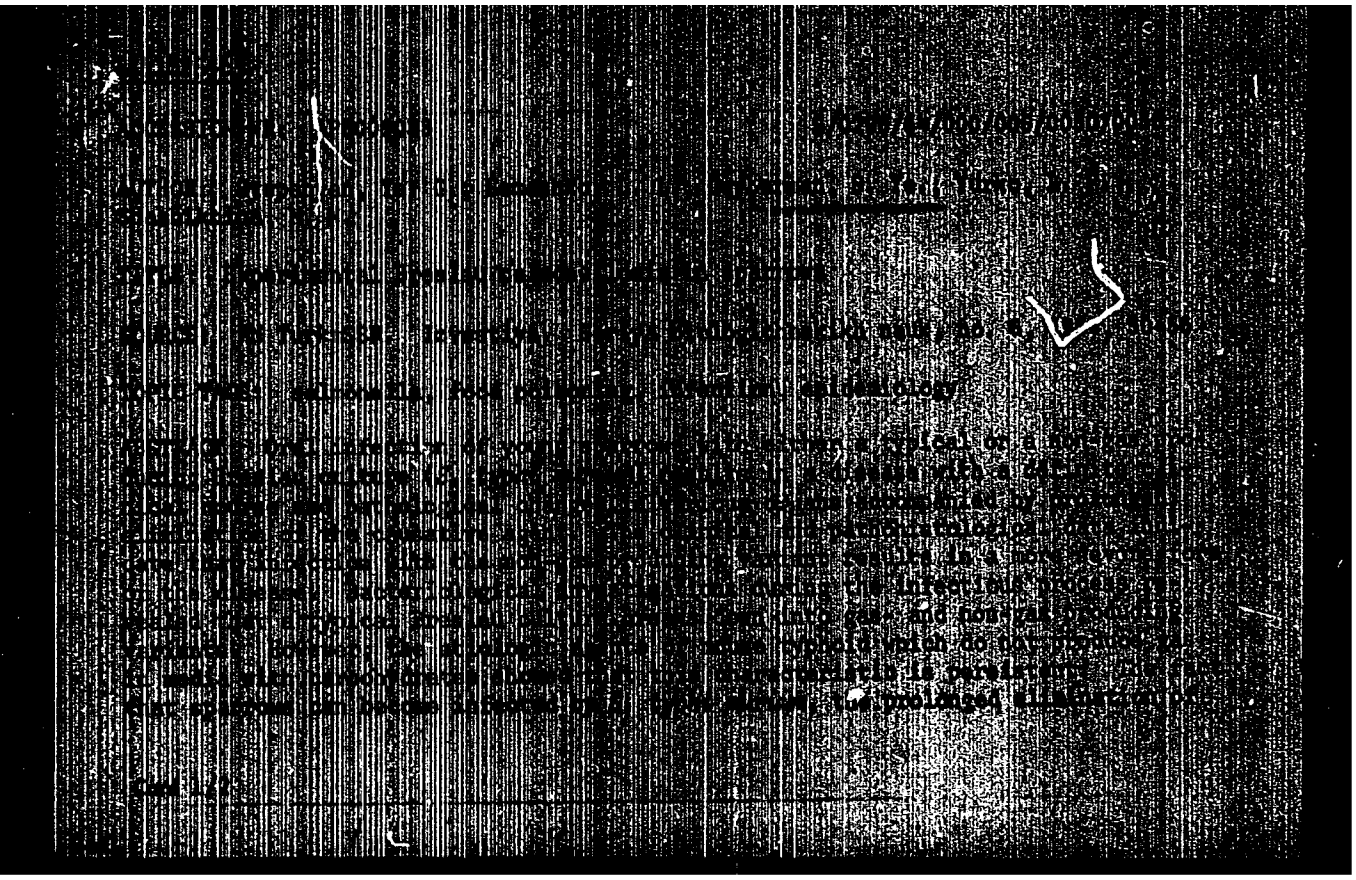
x lel. Submitted by Acad A. F. Ioffe 5 Oct 48.

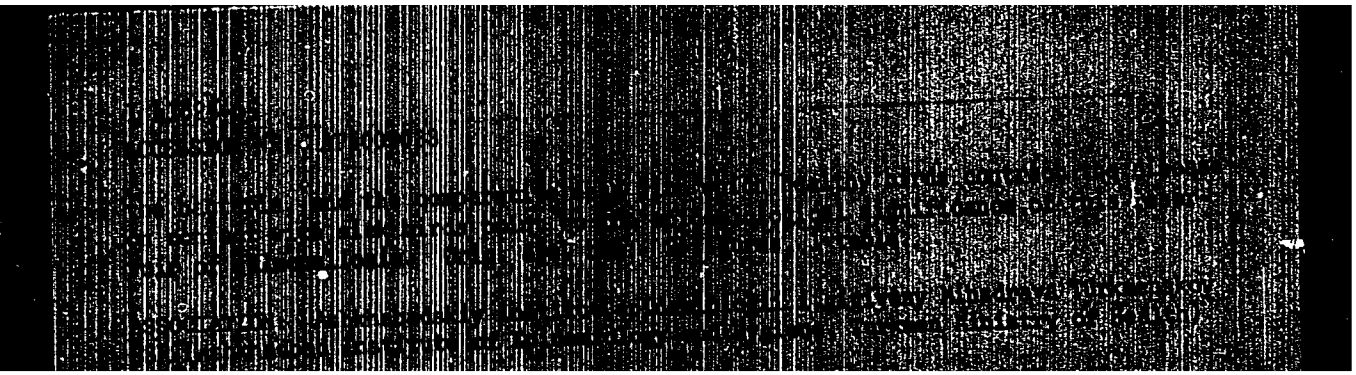
55/49T74

NIKITINA, T.D.; GEYBER, N.M.

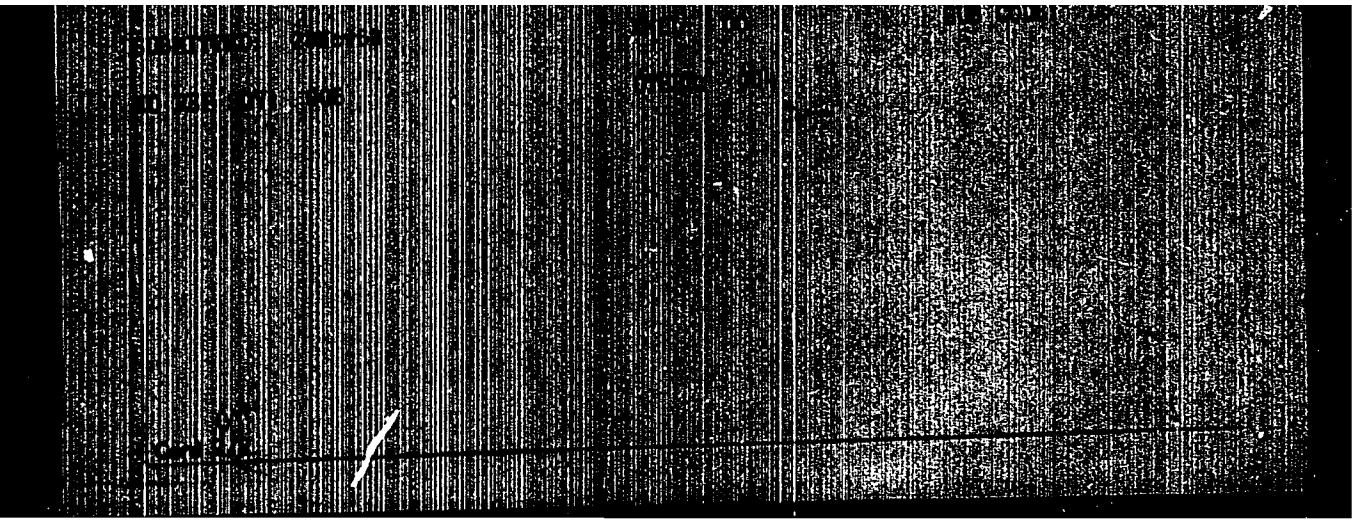
Calculating the cost of petroleum products. Neftianik 2 no.8:27-28 Ag '57. (MIRA 10:10)

1.Nachal'nik planovogo otdela Novo-Ufimskogo neftepererabatyvayushgo zavoda (for Nikitin). 2.Starshiy inzhener planovogo otdela Novo-Ufimskogo neftepererabatyvayushchego zavoda (for Geyber).
(Petroleum products--Costs)





APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515010005-4"



APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515010005-4"

GEYCHENKO, V.[Heichenko, V.], nauchnyy sotrudnik

Model, impression and copy.... Znan. ta pratsia no.2:15-16 F '63. (MIRA 16:4)

(Models and modelmaking) (Cybernetics)

GEYCHENKO, V. V.

21-5-11/26

AUTHORS: Geychenko, V.V (Heychenko, V.V.) Corresponding Member of the AN Ukrainian SSR and Smirnov, A.A. (Smyrnov, A.A.)

TITLE: Study of Interatomic Interaction in Interstitial Alloys by the Wave Scattering Method (Izucheniye mezhduatomnogo vzaimodeystviya v splavakh vnedreniya metodom rasseyaniya voln)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Nr 5, pp. 470-473 (USSR)

ABSTRACT: The authors consider the application of the theory of X-ray scattering by interstitial alloys for determination of some constants of interatomic interaction. The data obtained make it possible to find the correlation parameters in alloys with two kinds of atoms at the lattice points and one kind in the interstitial positions by the intensity of scattered radiation and making use of Fourier calculus. The authors consider a particular case of an alloy whose lattice points are occupied by atoms A and B and form a face-centered cubic lattice and interstices are partially occupied by C-atoms. The correlation parameters enable one to estimate the micro-nonuniformities of the alloy. Formula 7 in the article can be applied to

Card 1/2

Study of Interatomic Interaction in Interstitial Alloys by the Wave Scattering Method

alloys whose interstitial atoms are hydrogen atoms, but in that case slow neutrons instead of X-rays are used for investigations. Applying the statistical theory of interstitial alloys (Ref.2), the energy differences of the interaction of the interstitial atoms C with the neighboring atoms A and B can be determined. The article contains 2 Slavic references.

ASSOCIATION: Institute of Metallophysics of the AN Ukrainian SSR (Instytut metalofizyky AN URSR)

SUBMITTED: 2 February 1957

AVAILABLE: Library of Congress

GEYCHENKO, V.V.; KRIVOGLAZ, M.A.; SMIRNOV, A.A.

Studying atomic interaction in alloys by means of wave scattering by the crystal lattice of alloys. Issl. po zharopr. splav. 3:140-149 '58. (MIRA 11:11)

(Alloys) (Crystal lattices) (Particles, Elementary--Scattering)

24(7) SOV/48-23-5-21/31

AUTHORS: Geychenko, V. V., Danilenko, V. M., Krivoglaz, M. A., Matysina, Z. A., Smirnov, A. A.

TITLE: On the Theory of the Diffused Dispersion of an X-Ray and Slow Neutrons in Multicomponent Alloys (K teorii diffuznogo rasseyaniya rentgenovykh luchey i medlennykh neytronov mnogokomponentnymi splavami)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 5, pp 637-639 (USSR)

ABSTRACT: The study of the diffused dispersion of various types of waves in the crystal lattice of alloys offers the possibility of investigating the arrangement of the various atoms in the crystal lattice and the influence exerted by microinhomogeneities upon alloy properties. A formula must be developed and expanded , permitting the computation of dispersion for the cases of X-rays and slow neutrons by the application of "factors of atomic dispersion". Such a formula (1) is written down in the form of a finite sum and the factors for the computation of the dispersion of an X-ray and of slow neutrons are described. This finite sum may be decomposed into two partial sums which consist of the diagonal or non-diagonal

Card 1/2

On the Theory of the Diffused Dispersion of an X-Ray and Slow Neutrons in Multicomponent Alloys

members, respectively. These two partial sums are then computed, namely, for the disordered state in the Brave type lattice. For an exemplification, these two formulas are written down for a binary alloy with the hexagon systems AB and AB_3. Finally, a wide space is devoted to the correlation parameters characterizing the state of the crystal. There are 4 references, 3 of which are Soviet.

ASSOCIATION: Institut metallofiziki Akademii nauk USSR
(Institute of Metal Physics of the Academy of Sciences, UkrSSR)

GRYCHENKO, V.V.; SMIRNOV, A.A.

Theory of ordering of Fe_3Al-type alloys. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.11:36-40 '60. (MIRA 13:11)
(Iron-aluminum alloys--Metallography)
(Crystal lattices)

GEYCHENKO, V. [Heichenko, V.], nauchnyy sotrudnik

Direction - low temperatures. Znan. ta pratsia no. 3:8-9 Mr '61.
(MIRA 14:5)

1. Institut metallofiziki AN USSR.
(Low temperature research)

GEYCHENKO, V.V.; SMIRNOV, A.A.

Theory of the ordering of the Fe_3Al-type alloys. Pt.2. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.13:44-46 '61. (MIRA 14:12)
(Iron-aluminum alloys--Metallography)

S/126/62/013/003/001/023
E091/E135

AUTHORS: Geychenko, V.V., Danilenko, V.M., and Smirnov, A.A.

TITLE: Theory of ordering in alloys having a body-centred cubic lattice, in which some super-lattice can form

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.3, 1962, 321-332

TEXT: To evolve an ordering theory for alloys with more than one distant order parameter presents considerable mathematical difficulties. However, by considering ordering processes in alloys with a body-centred cubic lattice, the authors prove in this paper that full determination of such systems is not necessary for the derivation of conclusions on the temperature and type of phase transformations. The theory was constructed in terms of a Gorskiy-Bragg-Williams model and by taking into consideration the interaction of atoms in two coordinate spheres; the possibility of the formation of four types of loops was accepted a priori. The authors show that the construction of an ordering theory in which the interaction

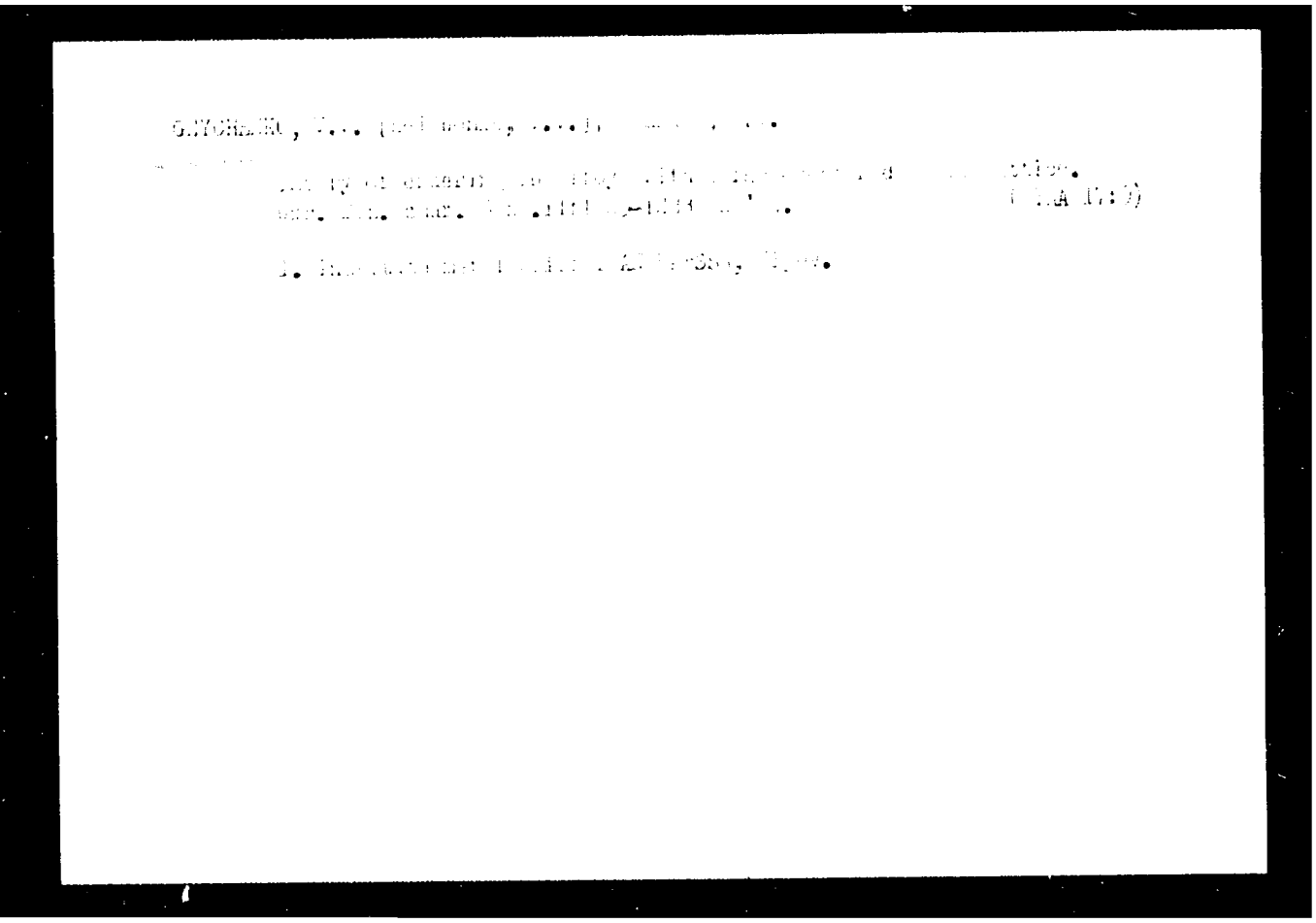
of atoms in several coordination spheres is allowed for, requires the introduction of more than one distant order parameter. Accordingly, for the determination of the dependence of the order parameters on temperature, a system of transcendental equilibrium equations was obtained. It was established that in alloys with a body-centred cubic lattice, ordering takes place in two stages. At first, β-brass type ordering appears; this is followed by one of the Fe_3Al type. In an ordered alloy, not more than three types of loops can exist. It was found that a first order phase-transformation can occur when the Fe_3Al type ordering appears in an alloy ordered in the β-brass manner. It was also found that Fe_3Al type ordering can decrease, and even disappear completely, with decrease in temperature, for a range of compositions covering a definite interval of ratios of the ordering energies of the first and second coordinate spheres typical for each concentration.
There are 5 figures.

Theory of ordering in alloys ... S/126/62/013/003/001/023
E091/E135

ASSOCIATION: Institut metallofiziki AN USSR
(Institute of Physics of Metals, AS UkrSSR)

SUBMITTED: June 21, 1961

Card 3/3



GEYCHENKO, V.V.; RYZHKOV, V.I.

Theory of the ordering of alloys with a hexagonal close-packed lattice. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.18: 155-162 '64 (MIRA 17:8)

GEYCHENKO, V.V.

Theory of the ordering of atoms in alloys with cubic lattices considering the interaction of atoms in all coordination spheres. Fiz.met.i metalloved. 20 no.2:183-192 Ag '65. (MIRA 18:9)

1. Institut metallofiziki AN UkrSSR.

SHTROMBERG, B.I.; MIROSHNICHENKO, A.M.; MOYSEYEVA, Kh.M.; KRIVOKON', Yu.G.; BRUK, A.S.; VOLKOVA, Z.A.; GEYD, G.P.; OBUKHOVSKIY, Ya.M.

Investigation of the coals of the Lvov-Volyn' Basin. Koks i khim. no.1:12-17 '61. (MIRA 14:1)

1. Ukrainskiy uglekhimicheskiy institut (for Shtromberg, Miroshnichenko, Moyseyeva, Krivokon'). 2. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Volkova, Geyd, Obukhovskiy).
(Lvov-Volyn' Basin--Coal)

GEYD, G. P.

Cand Tech Sci - (diss) "Study of chemical products of coking of coals from the Western Donbass, and the effect on the yield of these products of various impurities." Dnepropetrovsk, 1961. 18 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Dnepropetrovsk Chemical Technological Inst imeni F. E. Dzerzhinskiy); 180 copies; price not given; (KL, 7-61 sup, 234)

GEYD, G.P.

Effect of some additions on the process of coal pyrolysis.
Ukr. khim. zhur. 29 no.10:1096-1099 '63. (MIRA 17:1)

GEYDAROV, A.N.

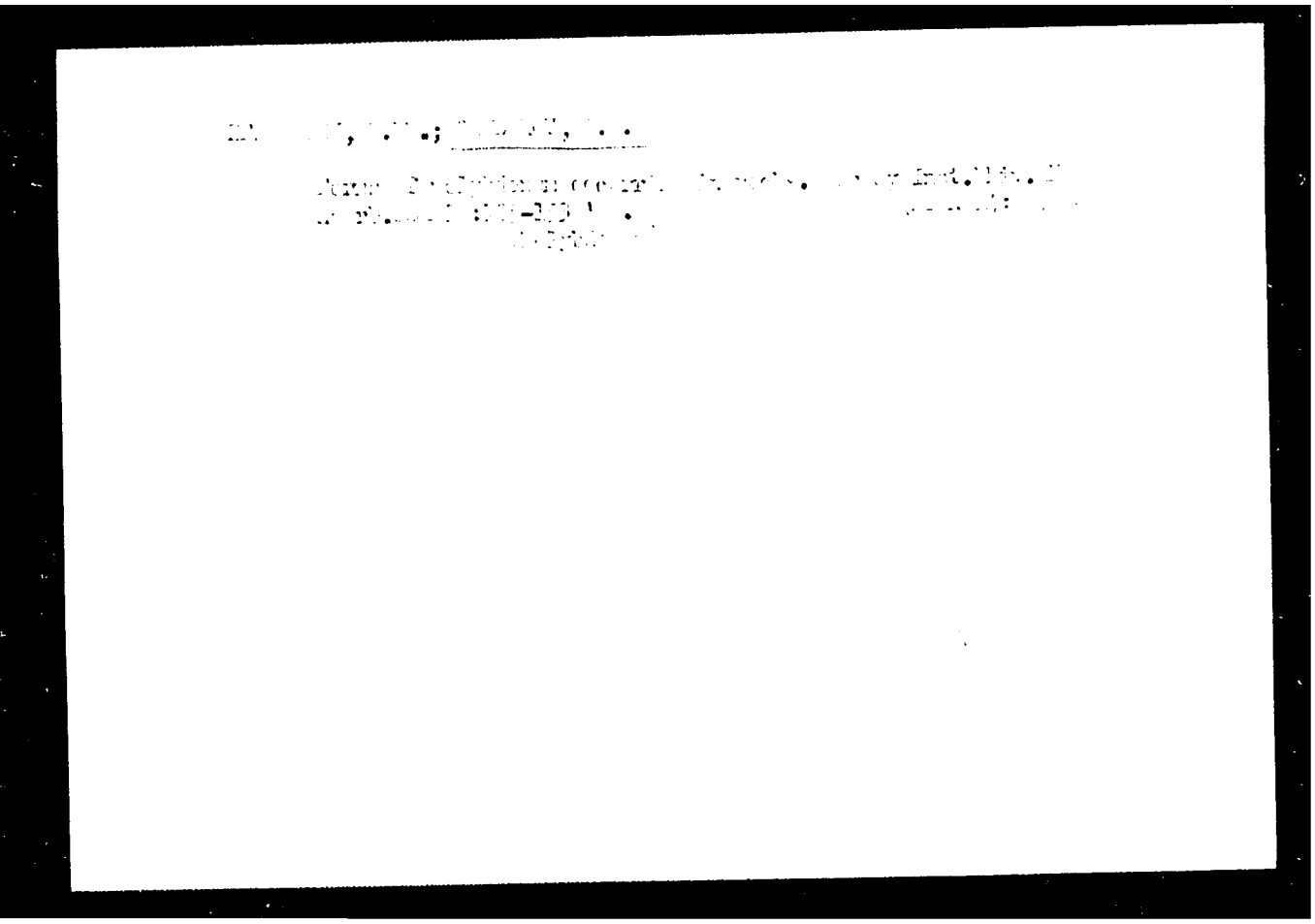
Epidemic foci of visceral leishmaniasis among children in the Karabakh region and problems in their liquidation. Azerbaidzh. med. zh. 6:71-74 Je'63 (MIRA 17:1)

GEYDAROV, A. S. Cand Geol-Min Sci -- (diss) "Study of the geochemistry of scattered molybdenum of the Dulidag intrusion (Azerbaydzhan SSR). Baku, 1958. 16 pp with [illegible] (Acad Sci Azerbaydzhan SSR. Inst of Geology im Academician I. M. Gubkin), 100 copies (KL, 14-58, 110)

-16-

GEYDAROV, A.S.; EFENDIYEV, G.Kh.

Geochemistry of molybdenum in natural waters. Uch. zap. AGU no.1: 95-102 '58. (MIRA 12:1)
(Water--Composition) (Molybdenum)



EFENDIYEV, G.Kh.; GEYDAROV, A.S.

Geochemistry of molybdenum in the Dali-Dag intrusive (Lesser Caucasus). Izv.AN Azerb.SSR. Ser.geol.-geog.nauk no.1:91-101 '59. (MIRA 15:4)

(Caucasus--Molybdenum)

EFENDIYEV, G.Kh.; NURIYEV, A.N.; GEYDAROV, A.S.

Distribution of uranium in the Dali-Dag intrusive massif.
Uch.zap. AGU. Geol.-geog.ser. no.6:3-10 '59. (MIRA 15:9)
(Dali-Dag (Azerbaijan)—Uranium)

ZUL'FUGARLY, N.D.; GEYDAROV, A.S.; NURIYEV, A.N.

Radioactive elements in argillaceous rocks of the Sarmat deposits. (MIRA 16:3)
Azerb.khim.zhur. no.2:119-122 '62.
(Nakhichevan A.S.S.R.--Clay) (Radioactive substances)

EFENDIYEV, G.B. [illegible] N.A.; GEYDAROV, A.S.

Geochemistry of thallium in the pyrite-complex metal type deposit. Izv.AN Azerb.SSR. Ser.geol.-geog.nauk no.1:30-38 '65. (MIRA 18:8)

EFENDIYEV, G.Kh.; GEYDAROV, A.S.; MUSTAFAYEV, G.V.

Geochemistry of lithium, rubidium, and cesium in the granitoids of the Lesser Caucasus. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.3:44-51 '65. (MIRA 18:9)

GEYDAROV, M.F.

Dynamic evolution of star clusters. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 18 no.6:91-108 '65. (MIRA 19:1)

1. Byurakanskaya astrofizicheskaya observatoriya AN Armyanskoy SSR.

(EYDAROV, S. G., (Veterinary Surgeon, Ismaillinsk Raion, Azerbaidzhan SSR)

The use of biovetin

Veterinariya vol. 38, no. 10, October 1961, pp. 81-82.

L 05692-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6022885 SOURCE CODE: UR/0249/65/021/012/0008/0010

AUTHOR: Rustamov, P. G.; Zargarova, I. I.; Geydarova, E. A. 39 B

ORG: Institute of Inorganic and Physical Chemistry (Institut neorganicheskoy i fizicheskoy khimii)

TITLE: Solid solutions in the pseudobinary system Ga_2Se_3-Ga_2Te_3

SOURCE: AN AzerbSSR, Doklady, v. 21, no. 12, 1965, 8-10

TOPIC TAGS: gallium compound, selenide, telluride, alloy phase diagram

ABSTRACT: Alloys of the Ga_2Se_3-Ga_2Te_3 system were prepared in evacuated and sealed quartz ampoules; their heating and cooling curves were recorded. The results are shown in Fig. 1. The fusibility curves show that the pseudobinary section Ga_2Se_3-Ga_2Te_3 constitutes a continuous series of solid solutions with a minimum at ~65 mole % Ga_2Te_3 and ~750°C. The microstructure confirms this diagram; the alloys of this system consist of a single phase. The composition-microhardness and density diagrams show a smooth variation of these properties with the composition, indicating the presence of a continuous series of solid solutions in this system. The paper was presented by Academician AN AzerbSSR Nagiyev, M. F. Orig. art. has: 2 figures and 1 table.

Card 1/2

L 05692-67

ACC NR: AP6022885

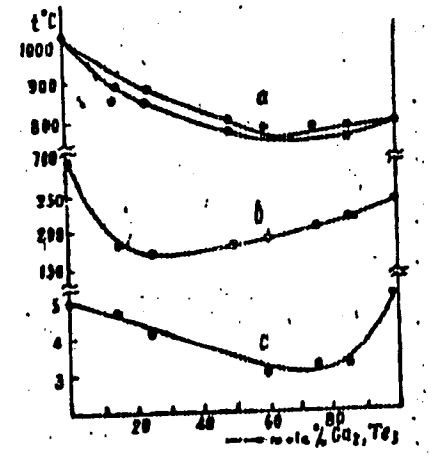


Fig. 1. Phase and composition-property diagrams of the Ga_2Se_3-Ga_2Te_3 system: a-fusibility; b-microhardness, kg/mm^2; c-density, g/cm.

SUB CODE: 11/ SUBM DATE: 10Nov64/ ORIG REF: 003

Card 2/2

GEYDEKO, A.

Agricultural Machinery - Caucasus, Northern

Discoverers of new paths. Mol. kolkh. 24, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

GEYDEKO, A.

Efficiency experts of the Stavropol Biological Products Plant. Veterinariia 33 no.9:30-31 S '56. (MLRA 9:10)
(Stavropol--Biological products)

GEYDEKO, A. I. (Sal'skiy rayon Rostovskoy oblasti)

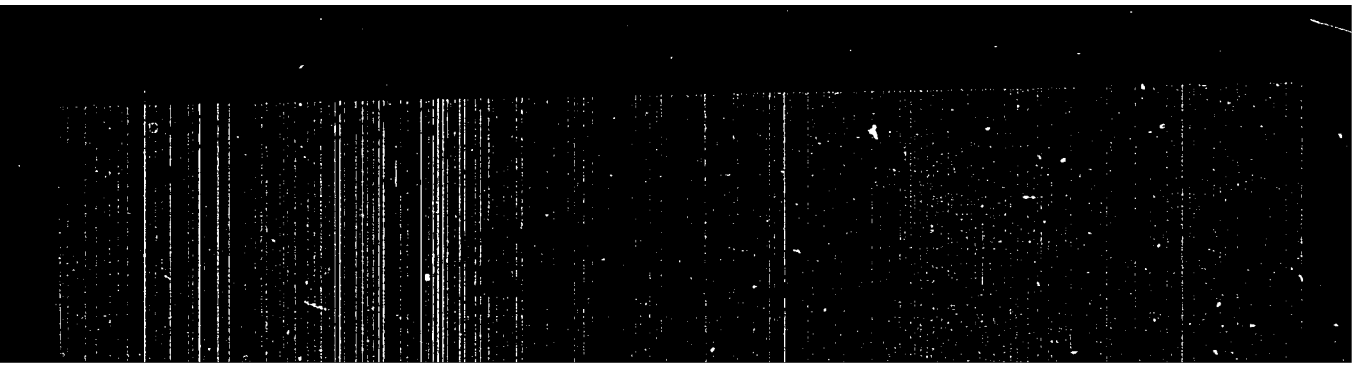
Grove in the steppe. Zdorov'e 2 no.8:15 Ag '56. (MLRA 9:9)
(SALSK--AFFORESTATION)

GEYDEL', Anna Katrin

Accomplishments of the radio industry [illegible]
Republic. Radio no.10:19 [illegible]. (MIRA 18:7)

GEYDEKO, A.I. (Stavropol')

Workdays in the rural feldsher's life. Fel'd. i akush. 25 no. 7:54-56 Je '60. (MIRA 13:8)
(LOZOVOI, PETR LEONT'EVICH) (PUBLIC HEALTH, RURAL)



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Geydel'berg, E.I.

USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis. B-9

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7251.

Author : A.I. Naumov, E.I. Geydel'berg.
Inst :
Title : Vapor Phase Hydrolysis Catalysis of Halogen Derivatives of Organic Compounds. II. Reversibility of Vapor Phase Hydrolysis Reaction of Chlorobenzene.

Orig Pub: Zh. obshch. khimii, 1957, 27, No 8, 2036-2039.

Abstract: The interaction reaction of phenol with hydrogen chloride in presence of a phosphate catalyst was studied in the vapor phase. It is shown that this reaction proceeds more rapidly than the hydrolysis reaction of chlorobenzene into phenol (under similar conditions). The equilibrium constant of the esterification reaction was determined experimentally for the first time. See part I in RZhKhim, 1957, 18634.

Card : 1/1 -37-

SUSLOV, V.M., otv.red.; VASIL'YEV, D.S., red.; GEYDEL'BERG, Ye.Z., red.; IGNAT'YEV, B.K., red.; MOSKALENKO, V.I., red.; PANCHENKO, A.Ya., red.; UMEN, D.P., red.; TULIN, N.S., red.; ANTONOVA, N.M., khudozh.-tekhn.red.

[Collection of scientific research papers on oilseed and aromatic plants] Sbornik nauchno-issledovatel'skikh rabot po maslichnym i efiromaslichnym kul'turam. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960. 284 p. (MIRA 14:3)

1. Krasnodar. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i efiromaslichnykh kul'tur.
(Oilseed plants) (Aromatic plants)

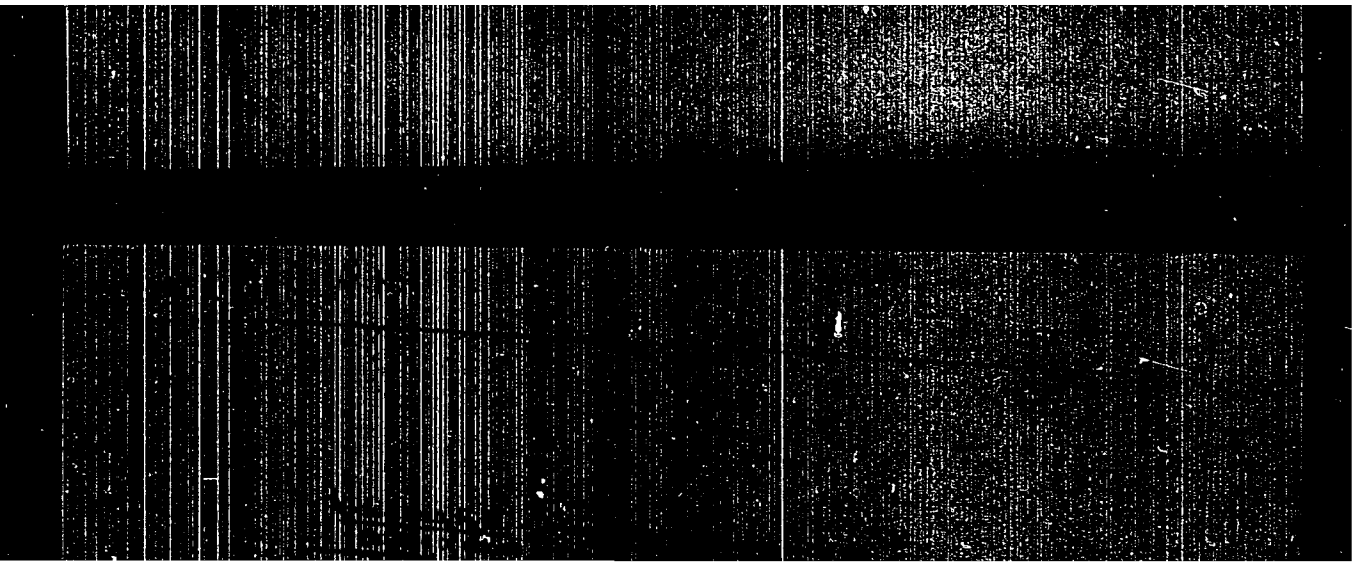
PROCESSES AND PROPERTIES [illegible]

The operation of lime kilns of the sugar industry with low grade fuels. M. M. [illegible] Sakharn. [illegible] 20, No. 3, 26-9 (1947). (Chem. [illegible] 1947, [illegible]) The methods described produce lime of sufficient quality to meet the demands of sugar refineries even when low grade coals were used. Shaft kilns [illegible] with [illegible] gas generator firing were the most satisfactory for high volatile fuels. The gases developed at about [illegible] are swept by means of an auxiliary air current into the kiln contg. the limestone. Here ordinary [illegible] produces the temp. of 1200 necessary for the decompn. of the limestone. Low grade fuels can be burned in ordinary shaft kilns if the fuel is [illegible] and the supply of air is increased. However, in this case both the flue gases and the milk of lime produced must be purified for use in sugar refineries. M. [illegible] M. [illegible]

ATS-SLA METALLURGICAL LITERATURE CLASSIFICATION

GEYDEL'MAN, M. M.

We are introducing advanced production techniques. Sakh. prom., 26, No 3, 1952.



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U

GEYDEL'MAN, R.M. Geidel'man, R.M. **Stratification of two-parameter families of straight lines in a multidimensional projective space.** Doklady Akad. Nauk SSSR (N.S.) 93, 957–960 (1953). (Russian)

In an n-dimensional projective space P_n two two-parameter families of straight lines (l_1) and (l_2) being given, (l_1) stratifies (l_2) if there exists a one-parameter family of surfaces (Σ) such that the tangent planes at points of intersection of l_1 and Σ all pass through l_1. If (l_2) also stratifies (l_1), the two families are completely stratified. It is first shown that if (l_1) stratifies (l_2) then (l_1) is a congruence and t en it follows that if (l_1) and (l_2) are completely stratified they are congruences in P_3 imbedded in P_n. The author obtains a number of results in case of stratification in one direction dealing with the existence of conjugate nets and asymptotic lines for parabolic congruences.

M. S. Knebelman (Pullman, Wash.).

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10-28-54 LL

GEYDEL'MAN, R. M.

USSR/Mathematics - Differential Geometry FD-832

Card 1/1 : Pub. 64 - 7/10

Author : Geydel'man, R. M. (Moscow)

Title : Stratification of k-parametric families of (k-1)-dimensional planes

Periodical : Mat. sbor., 34(76), 499-524, May-Jun 1954

Abstract : The problem of the stratification of two congruences of straight lines in three-dimensional space was first posed by the Italian mathematician Fubini in 1924. Since that time many mathematicians have been occupied with this question. The present article attempts to generalize the problem to one of stratification of pairs of k-parametric families of (k-1)-dimensional planes (called pseudocongruences) in an n-dimensional projective space P_n, where n is greater than or equal to 2k - 1.

Institution : --

Submitted : May 30, 1953

GEYDEL'MAN, R. M.

USSR/Mathematics

Card 1/1 Pub. 22 - 4/40

Authors : Geydel'man, R. M.

Title : Regarding the question of the three parameter complex of circles

Periodical : Dok. AN SSSR 99/2, 201-204, Nov 11, 1954

Abstract : A family of circles dependent on three parameters in a three-dimensional space is considered in the light of Cartan's groups. Seven references; 4-USSR (1901-1951).

Institution : Moscow Institute of Railway Transport Engineers Im. V. I. Stalin

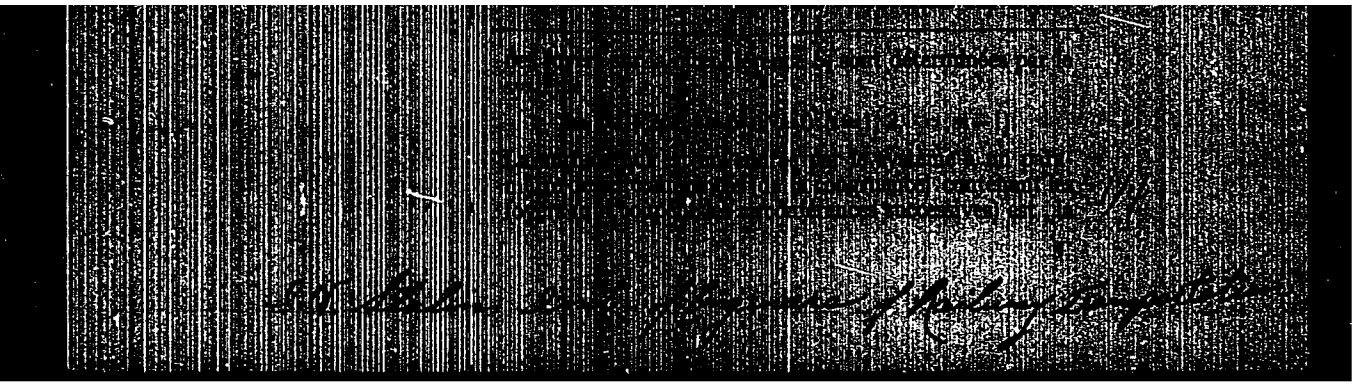
Presented by: Academician P. S. Alexandroff, August 28, 1954

GEYDEL'MAN, R.M. (Moscow).

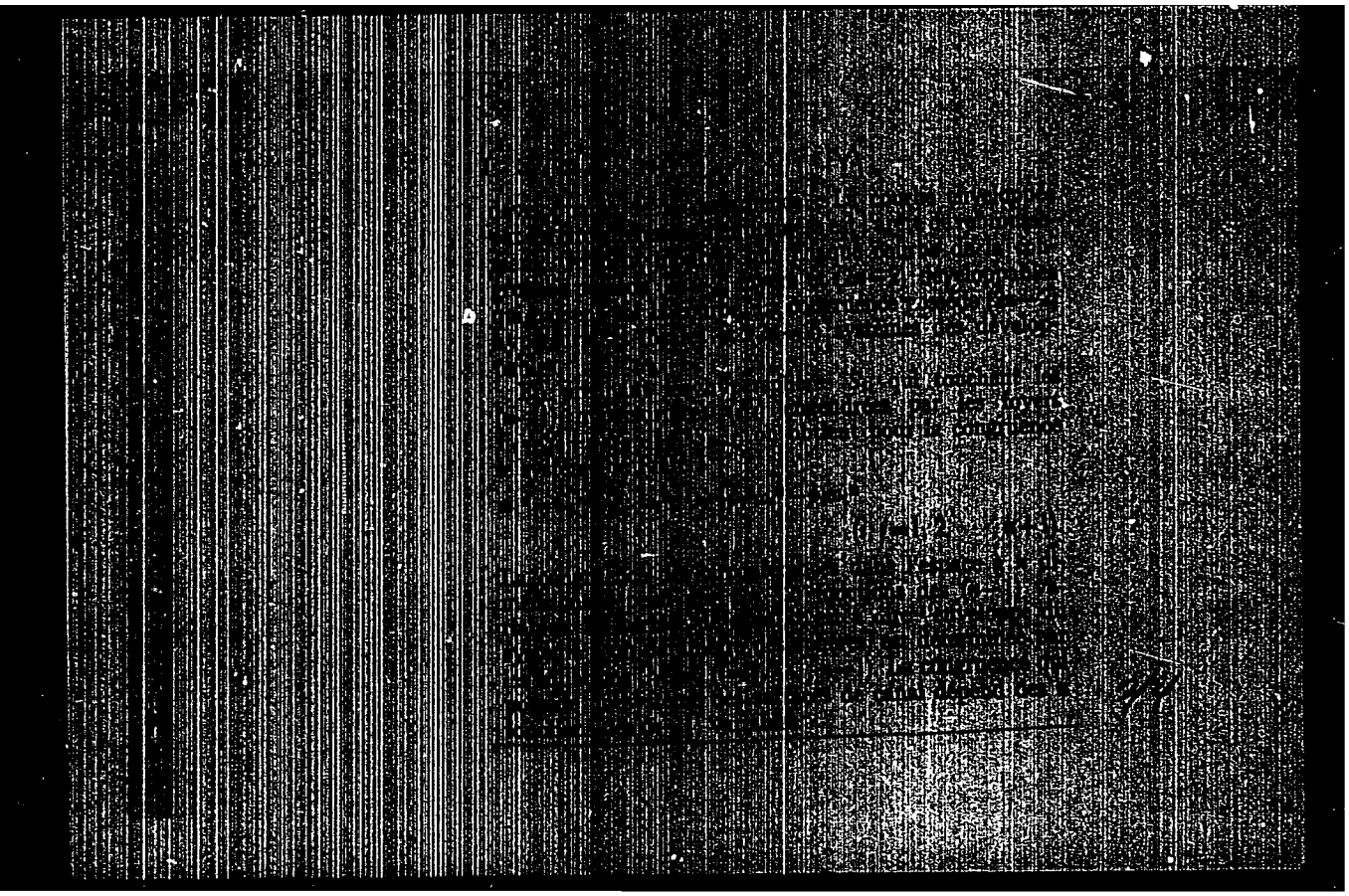
Theory of pseudo-congruences and congruences of surfaces in a multidimensional hyperbolic space and of congruences of spheres in a multidimensional conformal space. Mat.sbor. 36 no.2:209-232 Mr-Ap '55. (MLRA 8:6)
(Congruences (Geometry))

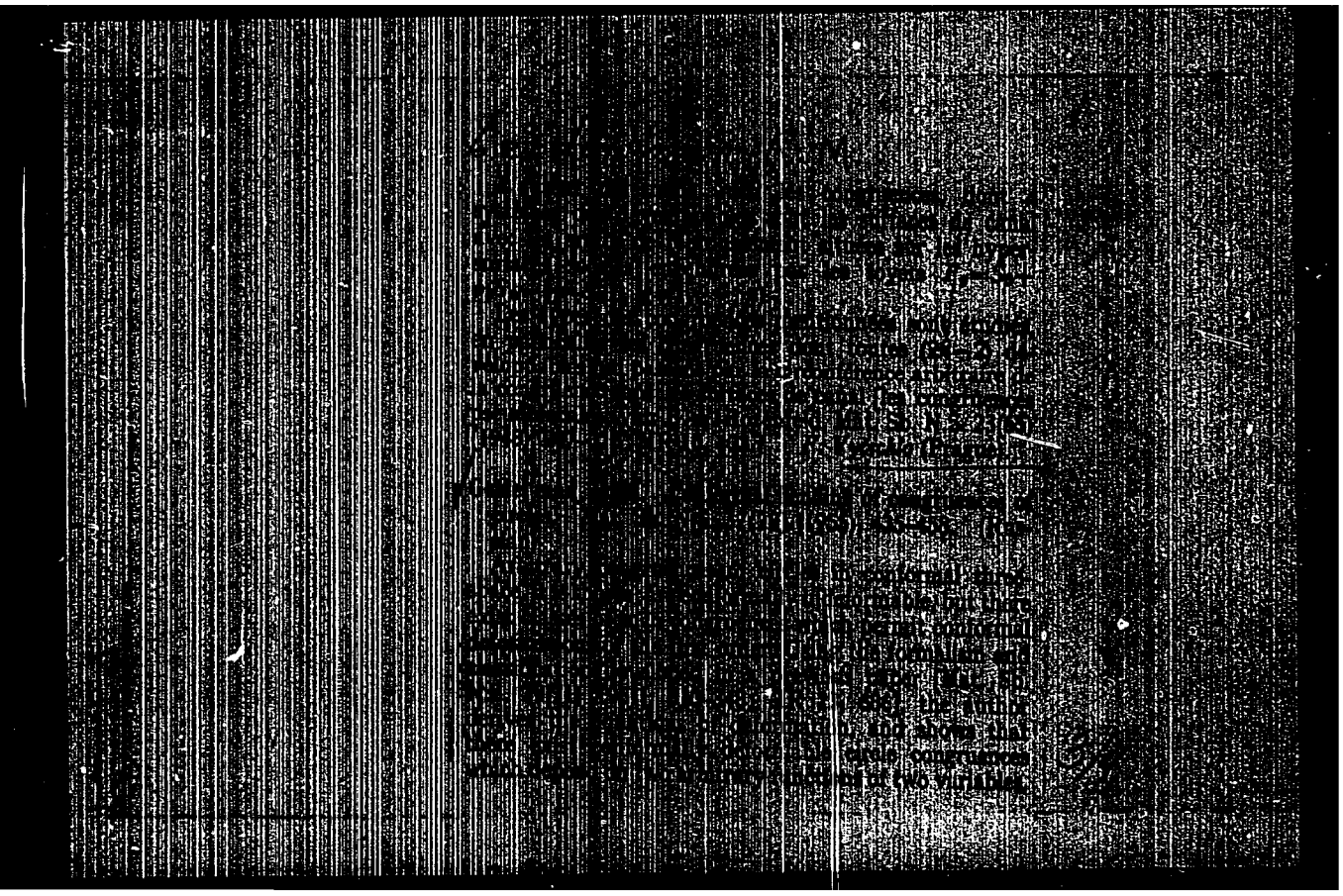
GEYDEL'MAN,R.M. (Moskva)

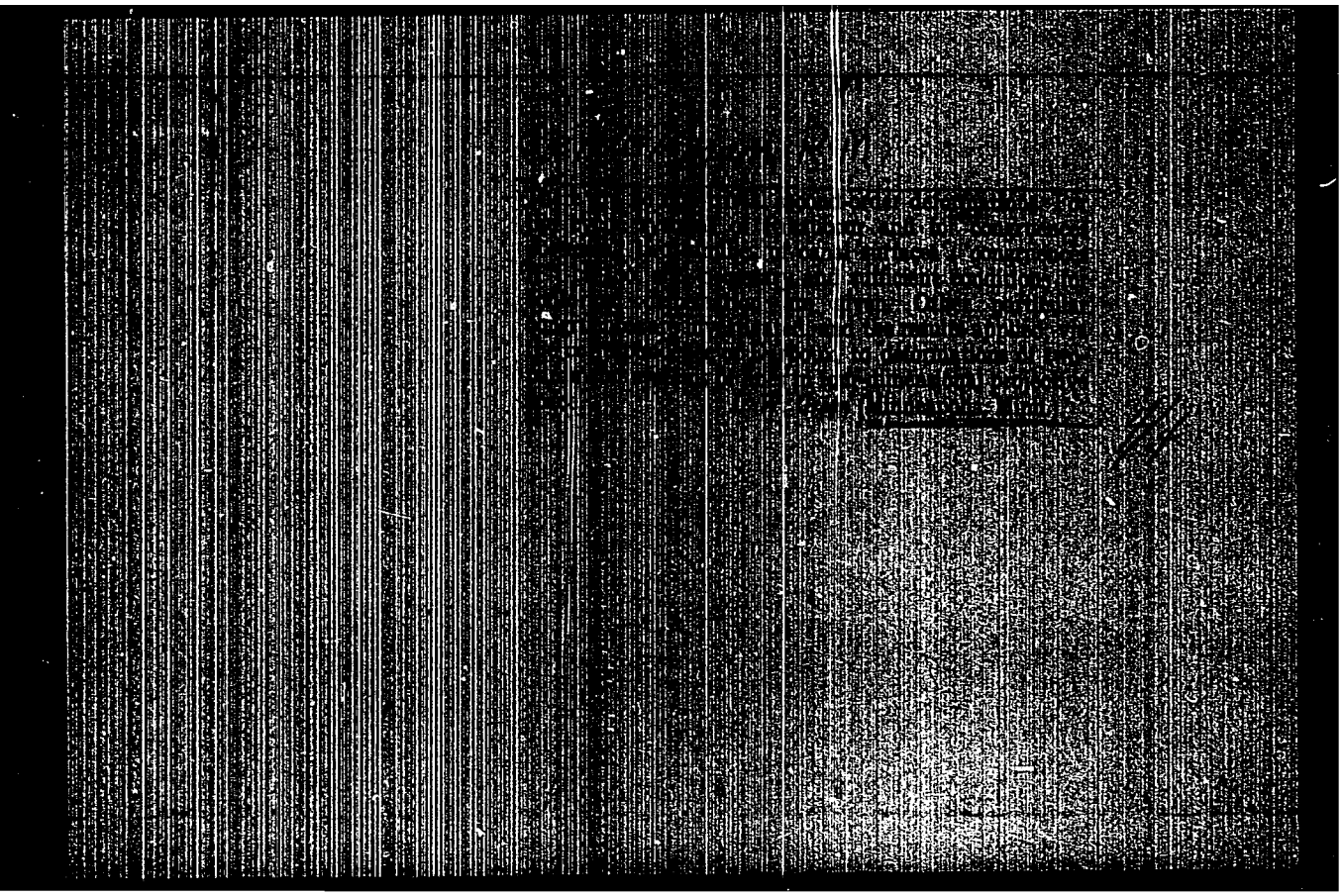
Conformal deformation of congruences of neighborhoods. Mat.sbor. 37 no.3:435-458 N-D'55. (MLRA 8:12)
(Congruences (Geometry))



APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515010005-4"







APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515010005-4"

GEYDEL'MAN, R. M.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Card 48/80

GEYDEL'MAN, R.M.

Multidimensional systems R. Usp.mat.nauk 12 no.3:285-290 My-Je '57.
(MIRA 10:10)
(Laplace transformation)

GEYDEL'MAN, R.M.

Metric characterization of congruences of circles having families of channelled surfaces. Usp.mat.nauk 12 no.4:281-284 Jl-Ag '57. (MIRA 10:10)

(Geometry, Differential--Projective)

39-3-2/8

AUTHOR: GEYDEL'MAN, B.L. (Moscow)

TITLE: Fibering of the Congruences of Circles and Spheres (Rassloyeniye kongruentsiy okruzhnostey i sfer)

PERIODICAL: Matematicheskiy Sbornik, 1957, Vol.43, Nr 3, pp.295-322 (USSR)

ABSTRACT: Let two families of subspaces (C_1) and (C_2) be given. Between the subspaces C_1 and C_2 of these families a one-to-one correspondence is assumed. Definition: The family (C_1) fibers the family (C_2), if in a natural way the elements of C_1 can be embedded in varieties, the differential neighborhood of which is incident with the corresponding subspace C_2. If also here the family (C_2) fibers the family (C_1), then such a pair is denoted a two-sided fibering pair.
In the present paper the author formulates and considers the problem of the one-sided and two-sided fibering of the congruences (two-parameter families) of circles in the three-dimensional conformal space (three dimensional Euclidean space plus one improper point) and the problem of a pair of spherical congruences (finite number of spheres through a space point) in the multidimensional conformal space.

Card 1/2

Fibering of the Congruences of Circles and Spheres 39-3-2/8

In 11 paragraphs the author presents 18 theorems and a great number of definitions.
The author applies Cartan's and Finikov's methods. 20 Soviet and 5 foreign references are quoted.

SUBMITTED: 14 April 1956

AVAILABLE: Library of Congress

1. Topology 2. Conformal mapping

Card 2/2

GEYDEL'MAN, N.M., Doc Phys-Math Sci--(diss)" The theory of congruences of planes in non-Euclid spaces." Moscow, 1958. 13 pp,(Mos State Univ. im Lomonosov), 150 copies. (KL, 38-58, 104).

16(1)

AUTHOR: Geydel'man, R.M. SOV/140-59-3-4/22

TITLE: On the Theory of Families of Planes in Non-Euclidean Spaces

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 3, pp 30-42 (USSR)

ABSTRACT: The present paper completes the results of V.V.Vagner and B.A. Rozenfel'd [Ref 1,2,3,4,5,6]. By the application of modern differentialgeometric methods of G.F.Laptev [Ref 7] the author succeads in developing the foundations of a general theory of (m-1)-dimensional families of planes in spaces of constant curvature. The author considers the principal invariants and the geometric figures of families of planes in differential neighborhoods of first and second order, he investigates congruences and pseudocongruences and proposes a focal classification of the families of planes.
There are 11 Soviet references.

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute for Engineers of Railroad Transportation)

SUBMITTED: April 15, 1958

Card 1/1

GEYDEL'MAN, R.M.

Simplex bending of congruences of straight lines. Izv.vys.ucheb. zav.; mat. no.1:84-93 '60. (MIRA 13:6)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta imeni I.V.Stalina.
(Congruences)

7

05252
SOV/140-59-5-9/25

AUTHOR: Geydel'man, R.M.

TITLE: Analytic Congruences of Straight Lines in the Three-Dimensional Dual Non-Euclidean Space

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 5, pp 80-92 (USSR)

ABSTRACT: B.A.Rozenfel'd [Ref 1] has introduced the three-dimensional projective space over the algebra of dual numbers (dual projective space $P_3(e)$) and the dual unitary non-Euclidean space $K_3(e)$ ($K_3(e)$ is a $P_3(e)$ in which a non-degenerated Hermitean-symmetrical tensor

(1) $g_{\alpha\beta}$ ($\alpha, \beta = 1,2,3,4$; $g_{\alpha\beta} = \bar{g}_{\alpha\beta}$; $\mathrm{Det}|g_{\alpha\beta}| \neq 0$)

is given). In §1 the geometry of the $K_3(e)$ and its connection with the projective geometry is considered. §2 investigates the analytic congruences of straight lines in the $K_3(e)$ and pairs of congruences of straight lines of the P_3. §3 treats the geometrical fundamental objects and invariant differential forms of the pairs of congruences of straight lines in the P_3 and the congruences in

Card 1/2

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SOV/140-59-5-9/25

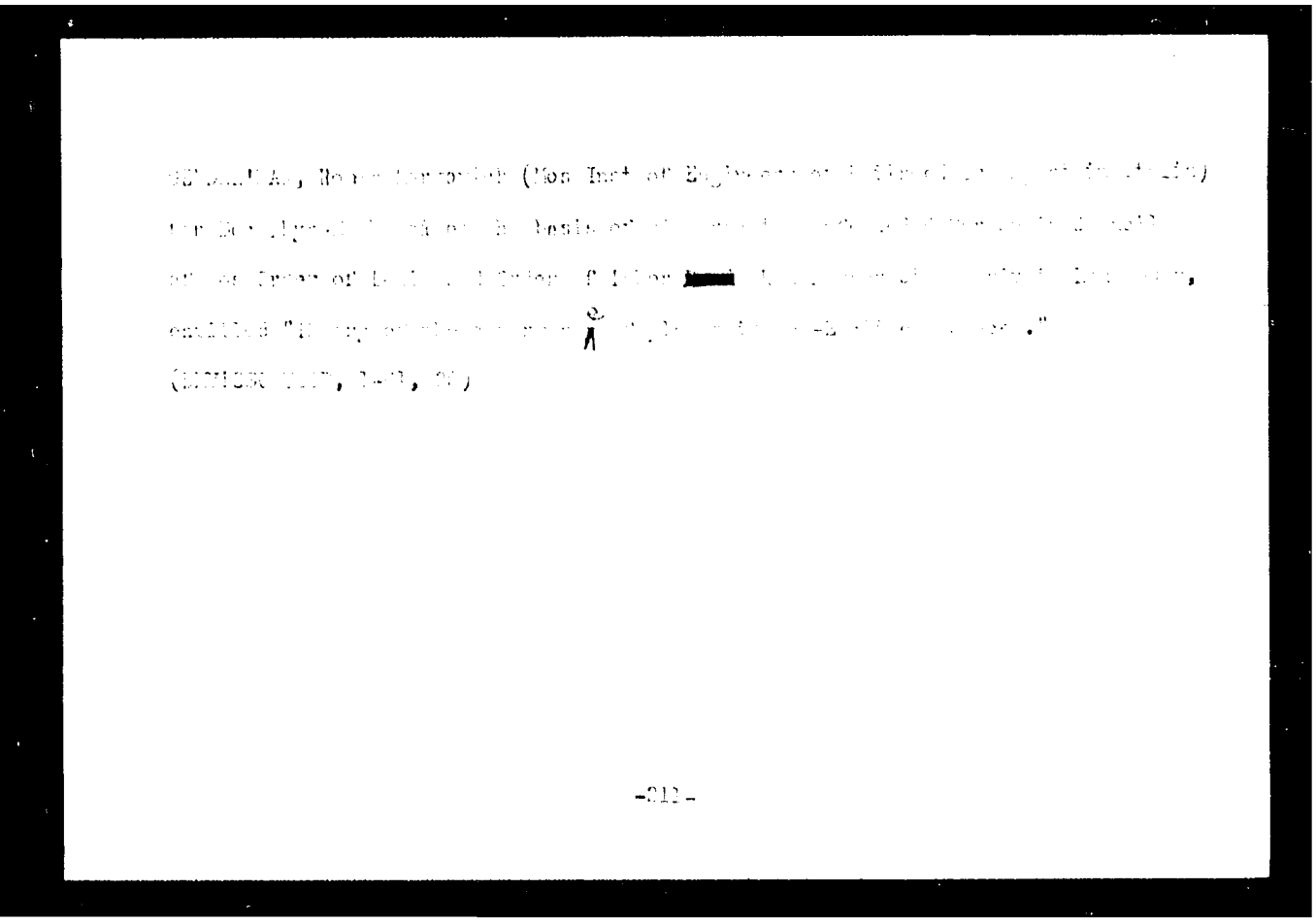
Analytic Congruences of Straight Lines in the Three-Dimensional Dual Non-Euclidean Space

the $K_3(e)$. §4 investigates the foci of the analytic congruences in the $K_3(e)$. In §5 R-congruences are introduced (i.e. analytic congruences of straight lines in the $K_3(e)$ the two foci of which are polarly conjugated with respect to the absolute). §6 considers W-congruences and §7 considers pairs of analytic congruences. 6 theorems and a great number of properties are proved.
There are 4 Soviet references.

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Engineers of Railroad Transportation)

SUBMITTED: April 15, 1958

Card 2/2



-212-

~~26(1)~~ 16.5000 05707

AUTHOR: Geydel'man, R.M. (Moscow) SOV/39-49-3-3/7

TITLE: Theory of Analytic Plane Congruences in Complex and Double Unitary Non-Euclidean Spaces and the Projective Theory of the Congruences of Pairs of Planes

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 49, Nr 3, pp 281-316 (USSR)

ABSTRACT: The theory of the families of plane surfaces developed in former papers of the author / Ref 1,2,9,10,12 / for real non-Euclidean spaces is generalized to complex and double unitary non-Euclidean spaces and to the closely connected real projective theory of the families of pairs of planes. The author formulates a very large number of geometric properties (only partially in the form of theorems). In most cases he does not give proofs, since they are completely analogous to those for the real case.
G.F. Laptev, R.V. Smirnov T.L. Koz'mina and B.A. Rozenfel'd are mentioned in the paper. There are 13 Soviet references.

SUBMITTED: January 24, 1958

Card 1/1

84752

S/042/60/015/004/010/017XX
C111/C222

16.5600

AUTHOR: Geydel'man, R.N.

TITLE: Conjugate T_1 Pairs

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol.15, No 4, pp.137-140

TEXT: Let the congruences of straight lines (l_1) and (l_2) relate to the same parameters u,v. The straight lines l_1 and l_2 of these congruences correspond to eachother if they are determined by the same values of the parameters u,v. T-pairs are two congruences with the property that the focal planes of every straight line of the one congruence pass through the foci of the corresponding straight line of the other congruence and reversely. The stratification of the congruences (l_1) and (l_2) as well as the Laplace transforms of the conjugate pairs were considered by S P Finikov (Ref.1) and other authors. The author proves the theorems:
Theorem 1: Pairs T_1 for which the developable surfaces correspond directly one to another, are conjugate - the congruence (l_1) stratifies (l_2) and the developable surfaces of (l_1) cut conjugate nets on all stratifying surfaces.

Card 1/2

84752

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Conjugate T_1 Pairs

Theorem 2: Corresponding Laplace transforms of a conjugate pair T_1 involve again conjugate pairs T_1, where their stratifying surfaces are the corresponding Laplace transforms of the stratifying surfaces of the initial pair.

There are 3 Soviet references.

SUBMITTED: May 17, 1957

Card 2/2

GEYDEL'MAN, R.M. (Moskva)

Simplex theory of congruences of straight lines. Mat.sbor. 51
no.3:343-376 Jl '60. (MIRA 13:8)
(Congruences (Geometry))

86400
S/020/60/134/004/026/036XX
C111/C333

16.5600

AUTHOR: Geydel'man, R.M.

TITLE: Conformal Theory of Two-Parameter Families of Spheres

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 4, pp. 753 - 756

TEXT: In the three-dimensional conformal space C_3 the author considers a family of spheres (S) depending on the parameters u^1 and u^2, which is related to the Cartan local conformal n-bone consisting of three mutually orthogonal spheres S_1, S_2, S_3 and of their points of intersection, where S_1 belongs to (S). The differential equations of the investigated two-parameter family of spheres (S_1) are, according to (Ref. 3) :

(4) $\omega_1^p = \lambda_{1\varkappa}^p du^{\varkappa}$ $(p,q = 0,2,3,4 ; \varkappa,\lambda,\mu,\nu = 1,2)$.

By continuation of (4) one obtains

(5) $d\lambda_{1\varkappa}^p = -\lambda_{1\varkappa}^q \omega_q^p + \lambda_{1\varkappa\lambda}^p du^{\lambda}$ and

Card 1/4

(6) $d\,\lambda_{1\varkappa\lambda} = -\lambda^{q}_{1\varkappa\lambda}\,\omega^{p}_{q} + (\quad)_{\mu}\,du^{\mu} + \lambda^{p}_{1\varkappa\lambda,\mu}\,du^{\mu}$.

The magnitudes $g_{\alpha\beta}$, $\lambda^{p}_{1\varkappa}$ or $g_{\alpha\beta}$, $\lambda^{p}_{1\varkappa}$, $\lambda^{p}_{1\varkappa\lambda}$ or $g_{\alpha\beta}$, $\lambda^{p}_{1\varkappa}$, $\lambda^{p}_{1\varkappa\lambda}$, $\lambda^{p}_{1\varkappa\lambda,\mu}$ form fundamental geometric objects of the first or second or third order of the family of spheres (S_1). Main result :
Theorem 1 : The fundamental geomentric object of third order is complete - the prescription of the field of the fundamental object of third order (i.e. of the values of its components in every point of the considered domain of the parameter space) determines the family of spheres (S_j) up to conformal transformation.
The fundamental objects of first and second order comprise the absolute tensors $a_{\varkappa\lambda}$ and $a^{2}_{\varkappa\lambda,\mu\nu}$ which generate the differential forms

(7) $\Phi = a_{\varkappa\lambda}\,du^{\varkappa}\,du^{\lambda}$ and

Card 2/ 4

Conformal Theory of Two-Parameter Families of Spheres

86400
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C111/C333

(8) $\overset{2}{\phi} = \overset{2}{a}_{\varkappa\lambda\mu\nu}\, du^{\varkappa}\, du^{\lambda}\, du^{\mu}\, du^{\nu}$.

If

(9) $\overset{2}{a}_{\mu\nu} = \overset{2}{a}_{\varkappa\lambda\mu\nu}\, a^{\varkappa\lambda}$

then the absolute invariants of the family of spheres (S_1) are :

(10) $\overset{2}{I}_1 = \dfrac{\mathrm{Det}\,\left|\overset{2}{a}_{\varkappa\lambda}\right|}{\mathrm{Det}\,\left|a_{\varkappa\lambda}\right|}$; $\overset{2}{I}_2 = \overset{2}{a}_{\mu\nu}\, a^{\mu\nu}$.

In particular, the author investigates the case, where $\overset{2}{\phi}$ is the square of a quadratic form.
A two-parameter family of spheres $(\overset{*}{S}_1)$ which is developable on (S_1) with the order 2 in the sense of Cartan is denoted as a deformation of (S_1).

Theorem 3 : The only class of two-parameter families of spheres which admits a conformal deformation is that class for which the invariant form $\overset{2}{\phi}$ is the fourth power of a linear form ω, where the one-parameter sub-

Card 3/4

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Conformal Theory of Two-Parameter Families of Spheres

S/020/60/134/004/026/036XX
C111/C333

families of spheres, which are obtained by putting ω equal to 0, are pencils.

There are 5 references : 3 Soviet, 1 French and 1 Polish.

[Abstracter's note : (Ref. 3) is a paper of the author in Tr.Mosk.matem. obshch., 1953, 2,275]

ASSOCIATION: Moskovskiy institut inzhenerov zheleznо dorozhnogo transporta imeni I.V. Stalina (Moscow Institute of Engineers of Railroad Transportation imeni I.V. Stalin)

PRESENTED: May, 18, 1960, by P.S. Aleksandrov, Academician

SUBMITTED: May 17, 1960

Card 4/4

GEYDEL'MAN, R.M.

Conformal deformation in two-parameter families of spheres. Izv. vys. ucheb. zav.; mat. no.6:16-24 '61. (MIRA 15:3)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.
(Surfaces, Deformation of) (Surfaces, Orthogonal) (Sphere)

GEYDELIMAN, R.L. (Moskva)

Fundamentals of the theory of families of subspaces in simplex spaces. Mat. sbor. 55 no.1:7-34 S '61. (MIRA 14:10)

(Spaces, Generalized)

GEYDEL'MAN, R.M.

Theory of hypersurfaces in four-dimensional non-Euclidean spaces. Dokl. AN SSSR 139 no.5:1040-1043 Ag '61. (MIRA 14:8)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta im. I.V. Stalina. Predstavleno akademikom P.S. Aleksandrovym.
(Hyperspace) (Surfaces)

GEYDEL'MAN, B.M. (Moskva)

Transformation of triorthogonal quadratic systems in four-dimensional non-Euclidean spaces. Izv. vys. ucheb. zav.; mat. no.2:45-57 '65. (MIRA 18:5)

[illegible] . . [illegible]; [illegible] [illegible]. (Moskva)

[illegible]tion to [illegible] theory of straight-line complexes. [illegible] vys. ucheb. zav.; mat. no.[illegible] '65. (MIRA 18:9)

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GEYDLER, S. ... fiziko-matematicheskikh nauk, prof.

Problems in differential geometry of homogeneous spaces. Trudy MTIP, no.19:13-20 '65. (MIRA 18:8)

Conformal theory of complexes of spheres. Ibid.:99-132

GEYDEMAN, T.S

22389. GEYDEMAN, T. Svetloy Pamyati Akademika Aleksandra Al'Fonsovicha Grossgeyma (Botanik) Boten Zhurnal, 1949 No. 3, S. 336-37

SO: LETOPIS' NO. 30, 1949

GEYDEMAN, T. S.

35372. Kserofitnye dubravy ((cyrnetsy)) Yuzhnoy chasti moldavskoy SSR. Nauch zapiski moldav nauch-issled. Bazy akad. nauk SSr. T. 11, 1949, c. 163-74

SO: Letopis' Zhurnal'nykh Statey, Vol. 3-, Moskva, 1949

GEYDEMAN, T.S.; BOBROV, Ye.G., redaktor; MOLODTSOVA.N.G., tekhnicheskiy redaktor

[Guide to plants of the Moldavian Soviet Socialist Republic] Opredelitel' rastenii Moldavskoi SSR. Moskva, Izd-vo Akademii nauk SSSR, 1954. 466 p. (MLRA 7:8)
(Moldavia--Botany) (Botany--Moldavia)

GEYDEMAN,T.S.; KAMANIN,L.G.; KANIVETS,I.I.; CHEDIENTOVA,G.V.

Natural features of the Kodry Hills. Trudy Inst.geog. no.64:69-104 '55. (MLRA 8:11)

(Kodry Hills--Physical geography)

L

USSR / Meadow Cultivation.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24752

Author : Geydman, T. S.; Kharakoz, M. F.
Inst : Moldavian Affiliate, AS USSR
Title : Towards the Problem of Using Meadow Vegetation in the Northwestern Part of the Kodrys (Moldavian SSR)

Orig Pub : Izv. Moldavsk. fil. AN SSSR, 1957, No 1, 45-75

Abstract : By the method of itinerary geobotanical investigations and by means of station observations in 1954, the species composition, structure, developmental dynamics and economic value of the grasses of meadow vegetation in the upper reaches of small-river valleys, as well as of those in

Card 1/3

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USSR / Meadow Cultivation.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24752

forest glades and borders, were established. The assembled data showed that the meadows in the northwestern part of the Kodras possess great economic value. The first early mowing or sowing on hay-producing meadow lands of the Kodras is inefficient, leading to a loss of almost half of the mowed mass obtainable in a single but modern harvest. Under mowing conditions in the phase of efflorescence (1st decade of July), it is possible in one or two years to introduce a two-harvesting regime with the second mowing in one month after the first one. It is recommended to begin afforestration of part of

Card 2/3

4

USSR / Meadow Cultivation. L

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24752

the clearings on slopes and watersheds. --
N. A. Solov'yeva

Card 3/3

MATSYUK, L.S., otv. red.; VARTICHAN, I.K., red.; GEYDEMAN, T.S., red.; DIKUSAR, I.G., red.; ZUBKOV, A.A., red.; IVANCHUK, P.K., red. ; KOVARSKIY, A.Ye., red.; KOLESNIKOV, S.M., red.; KONSTANTINOV, N.K., red.; MOKHOV, N.A., red.; SAYANOV, V.S., red.; TABUNSHCHIK, F.Z., red.; CHEBOTAR', A.A., red.

[Transactions of the First Conference of Young Moldavian Scientists] Trudy pervoi nauchnoi konferentsii molodykh uchenykh Moldavii, 1958. Kishinev, Gos. izd-vo "Kartia Moldoveniaske, 1960. 390 p. (MIRA 15:3)

1. Nauchnaya konferentsiya molodykh uchenykh Moldavii, 1st, 1958. 2. Institut biologii Moldavskogo filiala Akademii nauk SSSR (for Kolesnikov, Chebotar'). 3. Institut geologii i poleznykh iskopayemykh Moldavskogo filiala Akademii nauk SSSR (for Sayanov).

(Moldavia—Science—Congresses)

BONDARCHUK, V.G., akademik, otv. red.; KOROLEVA, M.A., glav. red.; KOCHUBEY, A.D., red.; RADUL, M.M., kand. geogr. nauk, red.; BILYK, G.I., kand.biol. nauk, red.; GEYDEMAN, T.S., kand. biol. nauk, red.; ZAMORIY, P.K., doktor geol.-min. nauk, prof., red.; KUGUKALO, I.A., kand. ekon. nauk, starshiy nauchnyy stor., red.; MARINICH, A.M., dotsent, red.; LUKOMEL', I.F., kand. geogr. nauk, starshiy nauchnyy sotr., red.; PRIKHOT'KO, G.F., kand. geogr. nauk, red.; ROMANENKO, I.N., akademik, red.; TAL'NOVA, N.N., red.; BYUSHGENS, L.M., kand. geogr. nauk, retsenzent; LIDKOVSKIY, I.Ya., kand. geol.-miner. nauk, retsenzent; KEL'NER, Yu.G., kand. geogr. nauk, retsenzent; NADEZHIN, P.F., retsenzent; NIKISHOV, M.I., doktor tekhn. nauk, retsenzent; PIDOPLICHKO, I.G., retsenzent; KURDINA, G.P., red.-kartograf; RACHINSKAYA, Z.P., red.-kartograf; SLEPTSOVA, L.M., redaktor-kartograf.

[Atlas of the Ukrainian S.S.R. and the Moldavian S.S.R.] Atlas Ukrainskoi SSR i Moldavskoi SSR. Moskva, 1962. vi p. 90 p. of col.maps. (MIRA 15:5)

(Continued on next card)

BONDARCHUK, V.G.---- (continued) Card 2.

1. Russia (1923- U.S.S.R.)Glavnoye upravleniye geodezii i kartografii. 2. Akademiya nauk USSR, Direktor Instituta geologicheskikh nauk Akademii nauk USSR (for Bondarchuk). 3. Nachal'nik kartosostavitel'skogo tsekha fabriki No.1 (for Koroleva). 4. Zamestitel' predsedatelya Gosudarstvennogo planovogo komiteta Soveta Ministrov USSR (for Kochubey). 5. Direktor Instituta ekonomiki Akademii nauk Moldavskoy SSR (for Radul). 6. Zamestitel' direktora po nauchnoy rabote Instituta botaniki Akademii nauk USSR (for Bilyk). 7. Direktor Botanicheskogo sada Akademii nauk Moldavskoy SSR (for Geydeman). 8. Zaveduyushchiy kafedroy geomorfologii Kiyevskogo gosudarstvennogo universiteta (for Zamoriy). 9. Institut ekonomiki Akademii nauk USSR (for Kugukalo). 10. Zaveduyushchiy kafedroy fizicheskoy geografii Kievskogo gosudarstvennogo universiteta (for Marinich). 11. Ukrainskiy nauchno-issledovatel'skiy institut ekonomiki i organizatsii sel'skogo khozyaystva (for Mukomel'). 12. Direktor Ukrainskogo nauchno-issledovatel'skogo gidrometeorologicheskogo instituta (for Prikhot'ko).

(Continued on next card)

BONDARCHUK, V.G.---(continued) Card 3.

13. Direktor Ukrainskogo nauchno-issledovatel'skogo instituta ekonomiki i organizatsii sel'skogo khozyaystva, Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Romanenko). 14. Direktor fabriki No.1 (for Tal'nova). 15. Chlen-korrespondent Akademii nauk MSSR (for Pidoplichko).
(Ukraine--Maps) (Moldavia--Maps)

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