

YEFIMOV, M.Ye.

The 150th anniversary of the First City Hospital of Cheboksary.
Zdrav. Ros. Feder. 4 no. 4:44 Ap '60. (MIRA 13:10)
(CHEBOKSARY--HOSPITALS)

YEFIMOV, M.Ye.

Some problems in the clinical aspects and treatment of infectious hepatitis. Vrach. delo no.2:122-123 F '61. (MIRA 14:3)

1. Pervaya Cheboksarskaya gorodskaya bol'nitsa.
(HEPATITIS, INFECTIOUS)

RODIONOV, A., slesar'-sborshchik; SUKHoy, Ye.; KHOMCHIK, P.;
YEfimov, N., kokil'shchik; L'VIN, M.

Seven-year plan to be fulfilled in five years; materials on
the activities of the worker groups of Leningrad Fixtures
Foundry. Mest.prom.i khud.promys. 2 no.3:3-8 Mr '61.

(MIRA 14:4)

1. Nachal'nik gal'vanicheskogo tsekha Liteyno-armaturnogo zavoda, Leningrad (for Sukhoy). 2. Nachal'nik liteynogo tsekh Liteyno-armaturnogo zavoda, Leningrad (for Khomchik).
3. Chlen tekhnicheskogo soveta Liteyno-armaturnogo zavoda, Leningrad (for L'vin).

(Leningrad--Foundries--Labor productivity)

YEFIMOV, N.

Radio broadcasts for radio amateurs. Radio no.5:22 My '63.
(MIRA 16:5)

1. Starshiy redaktor Glavnoy redaktsii yestestvenno-nauchnykh
peredach Vsesoyuznogo radio.
(Radio clubs)

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX	
118 Ca Fluctuations in the acid-base equilibrium in liver and kidney disorders. N. A. Efimov. <i>Terap. Arkh.</i> 10, 402-75(1958); <i>Chem. Zvesti.</i> 1959, II, 1102.—In diseases of the liver and kidneys (nephritis and nephrosclerosis) there was a displacement of the acid-base equil. in the direction of acidosis, especially after ingestion of NH_4Cl. This phenomenon, however, failed to appear in the nephrotic processes. M. G. Moore		118	
ASM-3LA METALLURGICAL LITERATURE CLASSIFICATION		6-21-58	
1ST GROUP 2ND GROUP 3RD GROUP 4TH GROUP 5TH GROUP 6TH GROUP 7TH GROUP 8TH GROUP 9TH GROUP 10TH GROUP 11TH GROUP 12TH GROUP 13TH GROUP 14TH GROUP 15TH GROUP 16TH GROUP 17TH GROUP 18TH GROUP 19TH GROUP 20TH GROUP 21ST GROUP 22ND GROUP 23RD GROUP 24TH GROUP 25TH GROUP 26TH GROUP 27TH GROUP 28TH GROUP 29TH GROUP 30TH GROUP 31ST GROUP 32ND GROUP 33RD GROUP 34TH GROUP 35TH GROUP 36TH GROUP 37TH GROUP 38TH GROUP 39TH GROUP 40TH GROUP 41ST GROUP 42ND GROUP 43RD GROUP 44TH GROUP 45TH GROUP 46TH GROUP 47TH GROUP 48TH GROUP 49TH GROUP 50TH GROUP 51ST GROUP 52ND GROUP 53RD GROUP 54TH GROUP 55TH GROUP 56TH GROUP 57TH GROUP 58TH GROUP 59TH GROUP 60TH GROUP 61ST GROUP 62ND GROUP 63RD GROUP 64TH GROUP 65TH GROUP 66TH GROUP 67TH GROUP 68TH GROUP 69TH GROUP 70TH GROUP 71ST GROUP 72ND GROUP 73RD GROUP 74TH GROUP 75TH GROUP 76TH GROUP 77TH GROUP 78TH GROUP 79TH GROUP 80TH GROUP 81ST GROUP 82ND GROUP 83RD GROUP 84TH GROUP 85TH GROUP 86TH GROUP 87TH GROUP 88TH GROUP 89TH GROUP 90TH GROUP 91ST GROUP 92ND GROUP 93RD GROUP 94TH GROUP 95TH GROUP 96TH GROUP 97TH GROUP 98TH GROUP 99TH GROUP 100TH GROUP		1ST GROUP 2ND GROUP 3RD GROUP 4TH GROUP 5TH GROUP 6TH GROUP 7TH GROUP 8TH GROUP 9TH GROUP 10TH GROUP 11TH GROUP 12TH GROUP 13TH GROUP 14TH GROUP 15TH GROUP 16TH GROUP 17TH GROUP 18TH GROUP 19TH GROUP 20TH GROUP 21ST GROUP 22ND GROUP 23RD GROUP 24TH GROUP 25TH GROUP 26TH GROUP 27TH GROUP 28TH GROUP 29TH GROUP 30TH GROUP 31ST GROUP 32ND GROUP 33RD GROUP 34TH GROUP 35TH GROUP 36TH GROUP 37TH GROUP 38TH GROUP 39TH GROUP 40TH GROUP 41ST GROUP 42ND GROUP 43RD GROUP 44TH GROUP 45TH GROUP 46TH GROUP 47TH GROUP 48TH GROUP 49TH GROUP 50TH GROUP 51ST GROUP 52ND GROUP 53RD GROUP 54TH GROUP 55TH GROUP 56TH GROUP 57TH GROUP 58TH GROUP 59TH GROUP 60TH GROUP 61ST GROUP 62ND GROUP 63RD GROUP 64TH GROUP 65TH GROUP 66TH GROUP 67TH GROUP 68TH GROUP 69TH GROUP 70TH GROUP 71ST GROUP 72ND GROUP 73RD GROUP 74TH GROUP 75TH GROUP 76TH GROUP 77TH GROUP 78TH GROUP 79TH GROUP 80TH GROUP 81ST GROUP 82ND GROUP 83RD GROUP 84TH GROUP 85TH GROUP 86TH GROUP 87TH GROUP 88TH GROUP 89TH GROUP 90TH GROUP 91ST GROUP 92ND GROUP 93RD GROUP 94TH GROUP 95TH GROUP 96TH GROUP 97TH GROUP 98TH GROUP 99TH GROUP 100TH GROUP	

Doc Med Sci

YEFIMOV, N. A.

Dissertation: "Hemodynamic Shifts in the Case of Nephritis."
5/6/50

Moscow Medical Inst, Ministry of Health RSFSR.

SO Vecheryaya Moskva
Sum 71

YEFIMOV, N.A.

Method of measurement of arterial pressure. Klin. med., Moskva 30
no. 12:70-72 Dec 1952. (CIMI: 24:1)

1. Head of the Staff of the Faculty Therapeutic Clinic, Chkalov Medical Institute.

BAGNOVA, M.D., nauchnyy sotr.; VASIL'YEV, A.S., nauchnyy sotr.; GEYZER, I.M., nauchnyy sotr.; YEFIMOV, H.A., nauchnyy sotr.; LUK'YANOV, V.S., nauchnyy sotr.; PANKOVA, V.M., red.; KOROBova, H.D., tekhn. red.

[Living and health] Byt i zdorov'e. Moskva, Profizdat, 1962.
149 p. (MIRA 15:9)

1. Moskovskiy nauchno-issledovatel'skiy institut gigiyeny im. F.F.Erismana (for all except Pankova, Korobova).
(HYGIENE)

YEFIMOV, N.A.; LUK'YANOV, V.S.

Effect of ultrasound on the organism; clinical observations. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.11: 15-28 '63. (MIRA 17:1)

ROSHCHIN, I.V.; YEFIMOV, N.A.; GORSHKOV, S.I.

[Studies on work hygiene and occupational pathology connected with the influence of physical factors in industry]
Issledovaniia po gighene truda i profpatologii v sviazi s
vozdeistviem fizicheskikh faktorov v proizvodstve. Moskva,
Meditsina, 1964. 17 p. (MIRA 18:7)

YEFIMOV N. G.

Irrigatsiya Zavolzhya, Proyekt Orosheniya I Rekonstruktsii Nisheny Volgi,
Sostavlenny Pod Rukovodstvom Akad, I. G. Aleksandrova, Goryuchiye Slantsy, 1934,
No. 2, 61.

SO: Goryuchiye Slantey #1934-35 TN. 871 G74

YEFIMOV, N. G.

Itogi Raboty Slantsevoy promyshlennosti za 9 mesyatsev 1935 g. goryuchiye slantsy, 1935 No 6, 5.

SO: Goryuchiye Slantsy No. 1934-35

TN .871
.G74

YEFIMOV, N.G.

Microclimate in the Tellermanovo Oak Forest, Priroda 50 no.5:
114-115 My '61. (MIRA 14:5)

1. Tellermanovskoye opytnoye lesnichestvo AN SSSR (Borisoglebsk,
Voronezhskaya obl.).
(Voronezh Province--Forest influences)

YEFIMOV, N.G.

"The Dynamics of Meteorological and Hydrogeological Conditions
in Highland Oak Groves in Relation to Group Felling";

dissertation for the degree of Candidate of Agricultural Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp 232-236)

KOROVINA, A.S.; SERGEYEVA, N.I.; YEFIMOV, N.I.

Properties of the diagonal article 2212 manufactured with the use
of spun nylon fibers. Izv. vyz. uchob. zav.; tekhn. tekst. prom.
no.4:13-15 '64. (MIRA 17:12)

1. Leningradskiy institut sovetskoy trgovli, kombinat tonkikh
i tekhnicheskikh sukh im. Tel'mana.

YEFIMOV, N-1.

Pharmacological assay of the anesthetic power of 2-amino-4-methyl-5-carbomethoxythiazole. *N. A. Litmanov and I. Ya. Pustovskii, Farmakol. i Toksikol.* 7, No. 2, 67-68 (1944).—Since 2-amino-4-methyl-5-carbomethoxythiazole is an effective anesthetic and is less toxic than procaine, the thiazole analogs of various β -aminobenzoate esters should be assayed for anesthetic and toxic properties.

Julian P. Smith

Julian E. Smith

A 30-114 RELIGIOUS SITUATION CLASSIFICATION

YEFIMOV, V. I.

Comparative pharmacological study of the amine com-
ponents of sulindine, sulfazole, and norsulfazole. N. I.
Efimov and N. P. Rednyagin. *Parazit. i Toksikol.* 10,
No. 1-2: 4 (1965). Injected subcutaneously in frogs and
cats, and intravenously in cats, the toxic dose of 2-amino-
pyridine (I) is about 2, of 2-aminothiazole (II) about 200,
and of 2-amino-4-methylthiazole (III) about 100 mg. In
cats I causes strychnine-type convulsions. Cats and rab-
bits are anesthetized by I, II, and III. Both II and III
are harmless at a dosage at which I quickly kills cats.
Julian P. South

11H

ASH-15A METALLURGICAL LITERATURE CLASSIFICATION

REGION: 020410
SUBJECT: 020410

100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

191 AND 192 INDEX		193 AND 194 INDEX		195 AND 196 INDEX		197 AND 198 INDEX		199 AND 200 INDEX	
YEFIMOV, N. I.									
Antagonism between p-aminobenzoic acid and sulfanilamide. N. I. Yefimov. <i>Farmakol. i Toksikol.</i> 8, No. 6, 28-9 (1945).—Sulfanilamide (I) at 10 to 10,000 p.p.m., and p-H₂NC₆H₄COOH (II) at 10-200 p.p.m. were tested on isolated frog hearts. Neither rhythm nor amplitude was changed by II, nor by I at 10-40 p.p.m. At 100 p.p.m. I begins to increase amplitude, but not to accelerate rhythm. At 5000 p.p.m. I stops the frog heart; at 200 p.p.m. II offsets the depressant effect of 10,000 p.p.m. of I. Referred to the effect of K and Ca ions, I is K-type and II is Ca-type in action. Julian F. Smith									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION FROM SYNDICATE 191 AND 192 INDEX 193 AND 194 INDEX 195 AND 196 INDEX 197 AND 198 INDEX 199 AND 200 INDEX									

YEFIMOV, N. I.

Cand. Medical Sci.

Mbr., Hospital Surgical Clinic, Sverdlovsk Med. Inst., -1946-.

All-Union Sci. Res., Chemico-Pharmaceutical Inst., Sverdlovsk Affil. (Mbr.,
Pharmacological Unit, -1942-; Mbr., -1946-).

"To the Pharmacology of Lidole," *Farmakol. i Toksikol.*, 5, No. 5, 1942;

"Pharmacological Aspect of Preparation 126, '2, 6 - Dimethoxybenzochinon', and Its
Use in Suppurative Diseases," *ibid.*, 9, No. 3, 1946.

YEFIMOV, Nikolay Ivanovich; POTAPOVA, I.N., red.; BUL'DYAYEV, N.A.;
tekhn.red.

[Vitamins and their importance for man's health] Vitaminy
i ikh znachenie dlia zdorov'ia cheloveka. Moskva, Gos. izd-vo
med. lit-ry, 1958. 39 p. (MIRA 12:1)
(VITAMINS)

YEFIMOV, Nikolay Maksimovich

[The struggle for healthy living] Bor'ba za zdorovyi byt. [Moskva]
Moskovskii rabochii, 1956. 83 p. (MIRA 9:11)
(PUBLIC HEALTH)

YEFIMOV, N.

Rigidity limit minima. Dokl. AN SSSR 60 no.5:761-764 My '48.
(MLRA 10:8)

1. Predstavleno akademikom I.G. Petrovskim.
(Surfaces, Deformation of)

YEFIMOV, N., inzhener; GRISHIN, K., tekhnik.

Making precast concrete products in construction yards.
Stroitel' 2 no.3:3 Mr '56. (MLRA 9:12)
(Zhukovskii--Precast concrete)

~~YEFIMOV, N., inzhener; GRISHIN, V.~~

Manufacture of plain concrete and reinforced concrete products. Stroi-
tel' 2 no. 11:4-5 II '56. (MLRA 10:1)

(Concrete salbs)

YEFIMOV, N., inzhener; GRISHIN, K., tekhnik.

Manufacture of prestressed concrete flooring slabs. Stroitel'
no.7:6-7 J1 '57. (MLRA 10:9)
(Prestressed concrete)

YE FIMOV, N.N., inzh.; GRISHIN, K.D., tekhnik.

Experience in manufacturing precast reinforced concrete
structural components for industrial buildings and installations.
Stroi.prom. 35 no.10:35-38 0 '57. (MIRA 10:10)
(Precast reinforced concrete)

YE FIMOV

YEFIMOV, N., inzh.; GRISHIN, K., tekhnik.

Manufacturing reinforced concrete products in construction yards.
Stroitel' no.12:7-8 D '57. (MIRA 11:2)
(Precast concrete)

MONASTYRSKIY, M.; LEMBERGER, A.; YEFIMOV, N., inzh.; GRISHIN, K., tekhnik;
YEVORENKO, G., inzh.

Making large blocks in construction yards in Krasnoturinsk,
Kramatorsk, Zhukovskiy, and Chita. Stroitel' no.7:5-7, 10.
Jl '59. (MIRA 12:10)

1. Upravlyayushchiy trestom Bazstroy (for Monastyrskiy). 2. Zame-
stitel' nachal'nika proizvodstvennogo otdela tresta Donmashstroy
(for Lemberger).

(Concrete blocks)

YEFIMOV, N.N.: GRISHIN, K.D., tekhnik

Using large precast reinforced concrete construction elements
in building refrigerating plants. Prom.stroi. 37 no.12:
41-43 D '59. (MIRA 13:4)

(Precast concrete construction)
(Refrigeration and refrigerating machinery)

YEFIMOV, N.N., inzh.; POLUBNEVA, V.I., inzh., red.

[Manufacture of reinforced-concrete products from stiff mixes at construction sites with immediate removal of forms; work practices of the "Osobstroï" Trust of the Main Division of the Moscow Province Construction Office] Izgotovlenie zhelezobetonnykh izdelii iz zhestkikh smesei na poligonakh s nemedlennoi raspalubkoi; opyt raboty tre-sta "Osobstroï" Glavmosoblstroia v g.Zhukovskom. Moskva, Akad. stroit. i arkhitekt. SSSR, 1959. 26 p. (MIRA 15:7) (Zhukovskiy---Precast concrete)

ACC NR: AP7006291

(A)

SOURCE CODE: UR/0437/66/000/010/0026/0028

AUTHOR: Krykh, B. V.; Panov, G. L.; Pereyaslov, A. N.; Yefimov, N. M.

ORG: UkrNIGRI

TITLE: An autoclave for setting cement at high temperatures and pressures

SOURCE: Bureniye, no. 10, 1966, 26-28

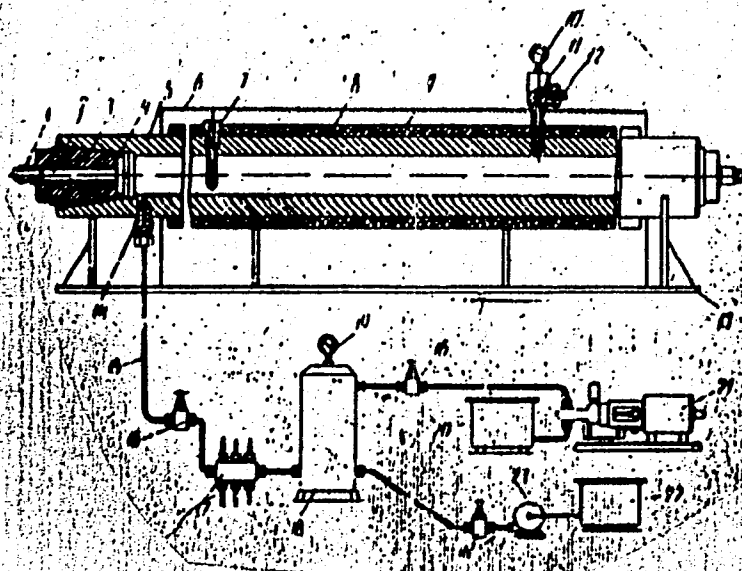
TOPIC TAGS: cement, petroleum engineering, test facility, pressure effect, high temperature effect *research*

ABSTRACT: The authors describe a large autoclave designed for studying the physical and chemical properties of cement after setting under the conditions which exist in deep gas and oil wells. A diagram of the autoclave and its hydraulic system is shown in the figure. The unit consists of casing 5 which is 1800 mm long with an outside diameter of 178 mm and an inside diameter of 90 mm. Plugs 3 with tapered threads are screwed into both ends of the casing. Inside each plug is a rod 2 with support plates. An elastic sealing ring 4 is located between the support plate and the face of the plug. Tension on nut 1 compresses the seal sufficiently for holding the starting pressure. As the pressure increases, the plate compresses the ring further to provide reliable sealing. A thermometer bulb 7 and manometer tube 11 are threaded into the top of the casing. Installed in the manometer tube is a needle valve 12 for releasing air from the autoclave as it is filled with water. Pump 23 is used for filling and pump

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UDC: 622.245

ACC NR: AP7006291



Card 2/3

ACC NR: AP7006291

21 is used for pressurizing. The heater consists of two nichrome coils 8 wound around the casing of the autoclave in asbestos liner 9. The casing of the autoclave is enclosed in jacket 6. The space between the jacket and the casing is filled with a heat insulating material. The electrical circuit of the autoclave is described. The unit accommodates three girder specimens measuring 40x40x160 mm or three cubic specimens measuring 50x50x50 mm. A pressure of 1300 atm may be set up at a temperature of 20°C. Orig. art. has: 2 figures.

SUB CODE: 13, 11/ SUBM DATE: None

Card 3/3

YEFIMOV, N.H., NIFONTOV, M.A., SHAMSUTDINOVA, F.K., and KRASIL'NIKOV, D.D.

"Atmospheric Effects on the Frequency of Extensive Air Showers
of Various Sizes,"

report presented at the Intl. Conference on Cosmic Rays and
Earth Storms, Kyoto, Japan, 4-15 Sept 1961.

S/058/62/000/006/018/136
A061/A101

AUTHORS: Kuz'min, A. I., Yefimov, N. N., Krasil'nikov, D. D., Skripin, G. V.,
Sokolov, V. D., ~~Shafer, G. V.~~, Shafer, Yu. G.

TITLE: A study of the variations with time of different cosmic ray components by one-point observations

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 53, abstract 6B371
(In collection: "Kosmicheskiye luchy", no. 3, Moscow, AN SSSR, 1961,
64 - 79, English summary)

TEXT: A recording apparatus of the Yakutsk cosmic radiation post is described, and the principal results of a study on variations of intensity are presented. The following instruments are laid out on the surface of the Earth: a neutron monitor, two shielded ionization chambers, and counter telescopes recording vertical and oblique cosmic ray components. In addition, counter telescopes placed at depths of 7.20 and 60 m water equivalent record the muonic component in the energy range of $2 \cdot 10^9 \div 10^{11}$ ev, while the continuous frequency recording on latitudinal atmospheric showers yields information on $5 \cdot 10^{13} \div 10^{16}$. ✓

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A study of the...

S/058/62/000/006/018/136
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ev particles. The values of the barometric coefficient of different components are indicated, as well as the principal results of an investigation of 27-day and solar day variations of intensity. Phenomena observed during magnetic storms are briefly described. The interrelation factors between variations of intensity of primary and secondary cosmic ray components up to energies of ~ 700 Bev are determined. These factors are utilized for the analysis of some types of variations of intensity. ✓

N. Kaminer

[Abstracter's note: Complete translation]

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S/058/62/000/010/046/093
A061/A101

AUTHOR: Yefimov, N. N.

TITLE: Time distribution of extensive cosmic ray air showers

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 62, abstract 10B464
(In collection: "Kosmicheskiye luchy, no. 3", Moscow, AN SSSR,
1961, 220 - 221, summary in English)

TEXT: As is known, the frequency distribution of extensive cosmic ray air showers, investigated by calculating the number of shower events for equal time intervals, obeys the Poisson law. However, more precise data on the distribution character may be obtained from the form of the time distribution function, i.e., the distribution of time intervals between the shower events. Investigations into this kind of distribution, conducted for large time intervals, showed the applicability of the Poisson law within the intervals concerned. The author studied the time distribution of extensive air showers for small time intervals (up to 1 sec) on a large apparatus of the Yakutskaya laboratoriya fizich. problem (Yakutsk Laboratory for Physical Problems) continuously recording up to 1500

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Time distribution of extensive cosmic ray air showers S/058/62/000/010/046/093
AC61/A101

showers per hour. Showers with a mean number $N=1.4 \cdot 10^4$ of particles were recorded. The distribution of intervals, obtained experimentally, was compared with the expected Poisson distribution. It is noted that the distribution of intervals in the first period (from 9.30 to 11.18) of the experiment which took place on March 5, 1960, is well described by the Poisson distribution, whereas great deviations from the Poisson law are observed in the second period (from 11.20 to 13.10). The necessity of repeating the experiments is pointed out.

[Abstracter's note: Complete translation]

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S/048/62/026/006/018/020
B125/B102

AUTHORS: Krasil'nikov, D. D., Yefimov, N. N., Nifontov, M. A., and Shamsutdinova, F. K.

TITLE: Continuation of the investigation into the intensity spectrum and into the atmospheric effects due to extensive atmospheric showers near sea level

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 6, 1962, 823-830

TEXT: Some results established since 1960 concerning the intensity spectrum and the atmospheric frequency effects due to extensive atmospheric showers of various intensities are reviewed. The function $\psi(r)$ of the shower particle distribution not dependent on the intensity is assumed to be

$\psi(r) = 1.84 \cdot 10^{-3} r^{-1}$ for $r < 10$ m, $\psi(r) = 2.21 \cdot 10^{-3} r^{-1} \exp(-r/55)$ for $10 < r < 100$ m, and $\psi(r) = 0.57 r^{-2.6}$ for $r > 100$ m. The spectrum of vertical intensity at sea level $K(N)dN \sim N^{-\kappa-1}dN$, $\kappa = 1.4$ with a particle number

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Continuation of the investigation ...

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B125/B102

$N < 2 \cdot 10^{15}$ and $\kappa = 1.7$ for $N > 2 \cdot 10^5$, is expressed in exponential form on the basis of earlier results and further experimental comparison. This spectrum agrees satisfactorily with the experimental results for ranges between 3.8 and 80 m and with the areas $\sigma = 1.0, 0.5$ and 0.17 m^2 covered by the counter groups. It practically proves that $\psi(r)$ is independent of the shower intensity. The frequency of the extensive atmospheric showers selected according to the method of the n-fold coincidence is represented as

$$C(n, \sigma) = \int_0^\infty K(N) W[N; n, \sigma, \varphi(r, R)] dN,$$

$$W[N, n, \sigma, \varphi(r, R)] = \iint_{(S)} W[N, n', \sigma, \varphi(r, R)] dS$$

The observed variations $\delta C(n, \sigma)$ can be caused by the changes $\delta K(N)$ as well as by distortions of the distribution function $\delta \varphi(r, R)$. $\varphi(R)$ is approximated by an exponential function

$$\varphi(r, R) \approx \begin{cases} b_1 r^{-1} e^{-\frac{r}{R}} & (r \leq 100 \text{ m}), \\ b_2 r^{-2.6} & (r > 100 \text{ m}); \end{cases}$$

If corrections for the geometrical effects are considered, the following

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Continuation of the investigation ...

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B125/B102

is obtained for the barometric coefficient by variation of $C(n, \delta)$ with respect to the parameter R of the function $\psi(r, R)$ with constant $K(N)$:

$$\beta_T = - \frac{2(\kappa - 1) - \alpha}{T} \Big|_{h=\text{const}}$$

The geometrical temperature effect is given by:

$$\alpha_h(n, \sigma)_{\text{geom}} = \frac{\delta C(n, \sigma) - \alpha_r(n, \sigma) \cdot \delta H}{\delta h} \cdot \frac{100}{C(n, \sigma)}$$

The observed increase in the barometric coefficient with increasing absorption coefficient of the shower particles cannot be explained by an increase of κ with constant absorption coefficient. The present results point to a change of the character of the variations to which extensive atmospheric showers are subject within a range from 10^{14} to 10^{15} ev, due to either the increasing presence of heavy nuclei among the primary particles with $E_0 \gtrsim 10^{15}$ ev or to a change in the composition of secondary particles. There are 4 figures and 1 table.

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Continuation of the investigation ...

S/048/62/026/006/018/020
B125/B102

ASSOCIATION: Yakutskiy filial Sibirskogo otdeleniya Akademii nauk SSSR,
Laboratoriya fizicheskikh problem (Yakutsk Branch of the
Siberian Department of the Academy of Sciences USSR,
Laboratory of Physical Problems)

Card 4/4

KRASIL'NIKOV, D.D.; YEfimov, N.N.; NIFONTOV, M.A.; SHAMSUTDINOVA, F.K.

Relation between the width ratio and the mean intensity of
extensive air showers. Trudy IAFAN SSSR. Ser. fiz. no.4:19-21
'62. (MIRA 15:12)

(Cosmic rays)

YEFIMOV, N.N.
KRASIL'NIKOV, D.D.; *YFIMOV, N.N.*; NIFONTOV, M.A.; ORLOV, V.A.

Relation between the intensity of the ionization burst
and the shower intensity in high-pressure chambers.

Trudy IAFAN SSSR. Ser. fiz. no.4:15-18 '62. (MIRA 15:12)
(Ionization) (Cosmic rays)

YEFIMOV, N.N., inzh.-podpolkovnik

Our experience in disseminating technical knowledge. Vest.
protivovozd.obor. no.9:18-20 S '61. (MIRA 14:8)
(Military education)

VERNOV, S.N.; YEGOROV, T.A.; YEFIMOV, N.N.; KRASIL'NIKOV, D.D.; KUZ'MIN,
A.I.; MAKSIMOV, S.V.; NESTEROVA, N.M.; NIKOL'SKIY, S.I.;
SLEPTSOV, Ye.I.; SHAFER, Yu.G.

Project of a large setup for studying extensive air showers
in Yakutsk. Izv. AN SSSR. Ser. fiz. 29 no.9:1690-1692 S '65.
(MIRA 18:9)

L 4409-66 EWT(1)/EWT(m)/FCC/T/EWA(h) IJP(c) GW
ACC NR: AP5024663

SOURCE CODE: UR/0048/65/029/009/1788/1790

AUTHOR: Yegorov, T. A.; Yefimov, N. N.; Krasil'nikov, D. D.; Koryakin, V. D.;
Maksimov, S. V.; Sleptsov, I. Ye.

ORG: none

TITLE: Design problems of large scintillation counters with a single photomultiplier

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1788-1790

TOPIC TAGS: scintillation counter, cosmic ray counter, nuclear scintillation counter

ABSTRACT: ⁽²⁾ Scintillator-photomultiplier mutual arrangement and reflector shape are optimized to decrease the influence of particle trajectory location upon photomultiplier output and to improve reliability of registration of low-density cosmic ray particles. In the experimental arrangement (Fig. 1), a 50 x 50 x 5 cm plastic scintillator occupied only one quadrant of the 100 x 100 cm reflecting container base. A single FEU-44 photomultiplier was used with its axis along the axis of the container. A diffusely reflecting Wattman paper (a high-grade Bristol drafting board) was used as the reflecting surface covering. The location of particle trajectories was determined by a telescope system using SI-5G counters. The area of the scintillator was divided into 16 equal areas 12 x 12 cm, and selections were made of vertical trajectory particle passages within a solid angle of .014 sterad. Arrangement

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L 11/09-66

ACC NR: AP5024663

IV, in Fig. 1, was found to be best, giving only about 20% attenuation for signals

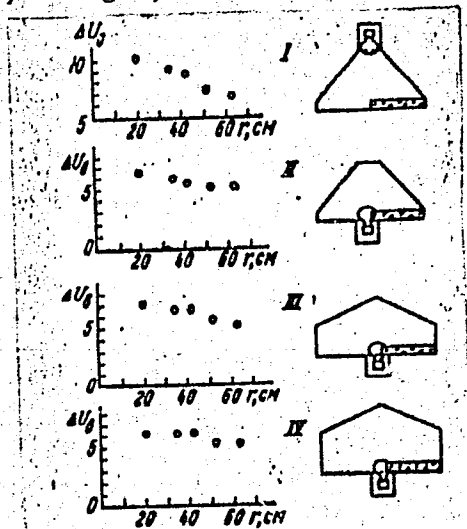


Fig. 1. Dependence of probable pulse height on trajectory of a single particle through the scintillator for various shapes of the reflecting container

arriving from scintillator edges. This should permit registration of a single cosmic ray particle with high reliability. Orig. art. has: 2 figures. [18]

SUB CODE: SUBM DATE: none/ ORIG REF: 001/ OTH REF: 000/ ATD PRESS 4/25
Cur 2/2

YEFIMOV, N. P.

Yefimov, N. P. - "Technical and economical appraisal of various methods of preparing peat fuel," In symposium: Torf v nar. Khoz-vo Belorus. SSR, Minsk, 1948, p. 68-72

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YEFIMOV, N. S.

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Translation No.544, 30 Apr 56

Chief, Planning ~~Section~~ and Financial Sector, Main Admin. of Urban Telephone nd Works

KARMAZOV, Mikhail Grigor'yevich; YEFIMOV, Nikolay Semenovich; METEL'SKIY, G.B., dotsent; retsenzent; FAT'KIN, D.F., dotsent; retsenzent; TRAUBENBERG, I.A., prepodavatel', retsenzent; BAZYK, V.K., prepodavatel', retsenzent; FRAYFEL'D, G.Ya., prepodavatel', retsenzent; STOYANOV, M.N., otv.red.; KAZ'MINA, R.A., red.; KARABILOVA, S.F., tekhn.red.

[Organizing and planning a local telephonic system] Organizatsiia i planirovanie mestnoi telefonnoi svyazi. Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio, 1959. 212 p. (MIRA 12:12)

1. Kafedra Organizatsii i ekspluatatsii elektrosvyazi Moskovskogo elektrotekhnicheskogo instituta svyazi (for Fat'kin, Traubenberga).
 2. Kafedra ekonomiki svyazi Odesskogo elektrotekhnicheskogo instituta svyazi (for Basyk, Frayfel'd).
- (Telephone)

GUBIN, Nikolay Mikhaylovich; SRAPIONOV, Onik Sergeevich; ~~YEFIMOV,~~
N.S., ~~otv. red.~~; KAZ'MINA, R.A., red.; KARABILOVA, S.F., tekhn.
red.

[Problems in economics and planning in district communication
offices] Voprosy ekonomiki i planirovaniia v raionnykh kontro-
rakh sviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i
radio, 1960. 127 p. (MIRA 14:5)

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no.12:3-13 '61. (MIRA 15:3)

1. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR,
Irkutsk.

(Siberia—Steam power plants)

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YEFIMOVA, I.S., inzh.

Selection of optimum design paramters and networks for connecting
regenerative heaters of large condensing electric power plants.
Elek.sta. 34 no.2:20-26 F '63. (MIRA 16:4)
(Boilers) (Steam power plants)

KUZNETSOV, Yu.A.; MAKAROV, A.A.; MELENT'YEV, L.A.; MERENKOV, A.P.; NEKRASOV, A.S.; TSVETKOV, N.I.; KUZNETSOV, Yu.A.; MAKAROVA, A.S.; KARPOV, V.G.; MANSUROV, Yu.V.; SYROV, Yu.P.; KHRILEV, L.S.; TSVETKOVA, L.A.; VOYTSEKHOVSKAYA, G.V.; YEFIMOV, N.T.; LEVENTAL', G.B.; KHANAYEV, V.A.; BELYAYEV, L.S.; GAMM, A.Z.; KARTELEV, B.G.; KRUMM, L.A.; LIPO, T.N.; SVIRKUNOV, N.N.; DRUZHININ, I.P.; KONOVALENKO, Z.P.; KHAM'YANOVA, N.V.; SHVARTSBERG, A.I.; NIKONOV, A.P.; STARIKOV, L.A.; POFYRIN, L.S.; PSHENICHNOV, N.N.; TROSHINA, G.M.; CHEL'TSOV, M.B.; SVETLOV, K.S.; SUMAROKOV, S.V.; TAKAYSHVILI, M.K.; TOLMACHEVA, N.I.; KHASILEV, V.Ya.; KOSHELEV, A.A.; KUDINOVA, L.I., red.

[Methods for using electronic computers in the optimization of power engineering calculations] Metody primeneniia elektronno-vychislitel'nykh mashin pri optimizatsii energeticheskikh raschetov. Moskva, Nauka, 1964. 318 p.

(MIRA 17:11)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Energeticheskii institut. 2. Chlen-korrespondent AN SSSR (for Melent'yev).

YEFIMOV, N.V.

Vitamins in the treatment of skin diseases. *Fel'dscher & akush*
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Ob. odnom tochechnom sootvetstvii mezhdu dvumya poverkhnostyami, kharakterizuyushchem ikh izometrichnost' (Matem. Sb., 41 (1934), 60-72. Nekotorykh sopryazhennykh setyakh i svyazannykh s nimi invariantakh. Dan, 4(1935), 3-6. Issledovaniye nekotorykh arifmeticheskikh invariantov parabolicheskoy tochkhi poverkhnosti. Dan, 23(1939), 855-858. Izgibaniye okrestnosti parabolicheskoy tochkhi poverkhnosti. Dan, 25 (1939), 179-181. Izgibaniye okrestnosti parabolicheskoy tochkhi poverkhnosti. Matem. Sb., 6 (48), (1939), 427-474. Izgibaniye okrestnosti parabolicheskoy tochkhi poverkhnosti. Dan, 26 (1940), 135-137. Dokazatel'stvo sushchestvovaniya poverkhnosti, ne izgibayemoy v malom. Dan. 27(1940), 314-317. Issledovaniye izgitaniya poverkhnosti s tochkoy uploshcheniya. Matem. Sb., 19 (61), (1946), 461-488. Nikotoryye voprosy teorii izgibaniya. Uspekhi matem. Nauk, 1:1(11), (1946), 220-222.

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 edited by Kurosh, A. G.,
 Markushevich, A. I.,
 Rashevskiy, P. K.
 Moscow-Leningrad, 1948

YEFIMOV, N. V.

"Researches on Certain Arithmetical Invariants of a Parabolic Point of a Surface," Dokl. AN SSSR, 23, No.9, 1939

Voronezh State U.

YEFIMOV, N. V.

"Deformation of a Neighboring Surface of a Parabolic Point," Dokl. AN SSSR,
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Voronezh State U.

Yefimov, N.

Yefimov, N. Invariant characteristics of certain nets and surfaces. Abh. Sem. Vekt. u. Tensoranalysis [Trudy Sem. Vektor. Tenzor. Analizu] 5, 148-172 (1941). (Russian) [MF 15610]

In studying nets of curves on a surface the author uses the apparatus developed by J. Dougladon. C. R. Acad. Sci. Paris 192, 261-264, 1931, on setting of a symmetric tensor determined by the net up to a scalar factor and of a covariant vector whose vanishing means that the net is a Chebyshev net. He finds a general expression for a net harmonic with a given net, in particular, with the net of lines of curvature, and uses this expression to give an invariant characterization of translation surfaces. He studies especially translation surfaces with an infinite number of geodesic nets. If such a surface is locally developable, the net maps under spherical representation into a net of conical lines and conversely. The last part of the paper is devoted to the study of deformations of a surface which preserve the conjugateness of a certain net having a property of Ricci system; the author proves the existence of an invariant for four surfaces arising from a given one by such a deformation. For surfaces of Voss (here the net whose conjugateness is preserved is geodesic) there exists an invariant of two surfaces. G. Y. Rainich (Ann Arbor, Mich.).

Source: Mathematical Reviews,

Vol 8 No. 6.

EFIMOV, N. V. V.

EFIMOV, N. V. V.

geometria

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Higher geometry

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"Some Questions of the Theory of Curvature of Surfaces," Uspekhi Matemat. Nauk, 1, No. 1, 1946.

Report U-1493, 27 Sep 1951

KOLMOGOROV, A.N.; LYUSTERNIK, L. A.; YEFIMOV, N. V.

"Ideas and Writings of N. I. Lobachevskiy," Uspekhi Matemat. Nauk, 1, No. 1, 1946.

Report U-1493, 27 Sep 1951.

YE FIMOV, N. V.

Efimov, N. Recherches sur les déformations d'une surface ayant un point d'aplatissement. Rec. Math. [Mat. Sbornik] N.S. 19(61), 461-488 (1946). (Russian. French summary)

A small neighborhood of any point of an analytic surface where that surface has contact of order $1 \leq n-1$ with its tangent plane is not rigid, even within the domain of analytic surfaces. This ceases to be true for $n \geq 2$. For instance, an arbitrarily small neighborhood of $O = (0, 0, 0)$ on the surface $z = x^2 y^2 + x^{2n} + y^{2n}$ is rigid within the class of analytic surfaces. The following is the principal general result. Let $z = F^{(n)}(x, y) + \dots + F^{(n)}(x, y) + R(x, y)$ be the expansion of the surface S by the Taylor formula,

where $n \geq 2$ and $F^{(n)}(x, y) \neq 0$. For a given positive δ let $T: z = G(x, y) = G^{(0)}(x, y) + \dots + G^{(n)}(x, y) + R^*(x, y)$ be a surface which has at (x, y) for $x^2 + y^2 < \delta$ the same Gauss curvature as S . If, for every such T , $G^{(0)} + \dots + G^{(n)} = P^{(0)} + \dots + P^{(n)}$ for $i \leq m$, but not for $i = m+1$, then $L_\delta = n - m + 1$ is called the order of rigidity of S at O relative to δ . Of course $L_\delta \geq L_{\delta'}$ for $\delta \geq \delta'$. Let N be the least upper bound of 0 and those h for which $F_{xx}^{(n)} \phi_n^{(h)} + 2F_{xy}^{(n)} \phi_n^{(h)} + F_{yy}^{(n)} \phi_n^{(h)} = 0$ implies $\phi_n^{(h)} = 0$ for every definite form of degree h . If $F^{(n)} \neq 0$ and $F^{(n)} \neq 0$ have no common real divisor, and $N > 0$, then $L_\delta \geq N + 1$ for all $\delta > 0$. There are surfaces with arbitrarily large N ; for instance, $N = n$ for the paraboloid mentioned above.

Source: Mathematical Reviews,

Vol. No. 6

FA 50T54

YEFIMOV, N. [V]

USSR/Mathematics - Bibliography

Nov/Dec 1947

"Works of Mathematical Institute imeni V. A. Steklov," N. Yefimov, 4 pp

"Uspekhi Matematicheskikh Nauk" Vol II, No 6 (22)

Subject publication began in 1932. Author presents the index for the articles which appeared in 23 volumes of "Works of Mathematical Institute imeni V. A. Steklov." Four of these volumes published in 1947. Authors: N. I. Lobachevskiy, I. M. Vinogradov, Khua-Lô-Xên, G. Ye. Shilov, V. A. Ditkin, I. S. Gradshteyn, L. Ya. Neyshuler, L. A. Iyusternik, I. Ya. Akushskiy, etc.

LC

50T54

YEFIMOV, N. V.

Yefimov, N. Étude des déformations infinitesimales de certaines classes de surfaces. *Rec. Math. [Mat. Sbornik]* N.S. 20(62), 27-53 (1947). (Russian. French summary)

Let S be the portion, between two parallel planes, of the surface of the smallest convex solid containing two ovals situated in these planes. Consider deformations of S of the form $x(u, v) + \varepsilon z(u, v) + \varepsilon^2 w(u, v)$, where x, z, w are vector-functions periodic in u in the strip $0 \leq v \leq 1$, the first of which (x) is linear in v and defines S . Subject to the usual assumptions of differential geometry, the author proves that if these deformations (i) do not increase the distance of near points of the bounding ovals, and (ii) alter the lengths of smooth curves on S by at most $o(\varepsilon^2)$, then they are of a very special type which he terms trivial. A similar result is established for the part of an oval surface of positive curvature bounded by a finite number of oval curves.

L. C. Young (Columbus, Ohio).

Source: *Mathematical Reviews*,

Vol 8 No 10

YEFIMOV, N. V.

"The Qualitative Problems of the Theory of the Deformation of Surfaces," Uspekhi
Matemat. Nauk, 3, No.2, 1948

YEFIMOV, N. [V]

PA 36/49T30

USSR/Mathematics - Probability
Mathematics - Bibliography

Nov/Dec 48

"Review of G. Kramer's Book, 'Chance Values and
Probability Distribution,'" N. Yefimov, 2 pp

"Uspekhi Matemat Nauk" Vol III, No 6 (28)

Favorable review of subject book, which intro-
duces number of new ideas in the theory of
probability.

36/49T30

YEFIMOV, N.V.

200

Yefimov, N. V. Research on the deformation of surfaces containing points with zero Gaussian curvature. Mat. Sbornik N.S. 23(65), 89-125 (1948). (Russian)

For fixed t , $0 \leq t \leq 1$, let $S_t: x_i = x_i(u, v, t)$, $u^2 + v^2 < 1$, be a surface in E^3 for which the second partial derivatives with respect to u and v are continuous and the Gaussian curvature is zero.

faces U in E^3 defined in a neighborhood $u^2 + v^2 < a^2$, $a > 0$, and with the same line element ds^2 as S is called connected if it contains with any surface its image under the mapping S .

It is shown that the theorem was proved by H. Seifert (Math. Ann. 137, 239-283 (1957)). There are intrinsically isometric surfaces S, S' with corresponding points p, p' such that no neighborhood of p on S can be uniformly deformed into a neighborhood of p' on S' .

Let $S: K(u, v)$ be an analytic surface with line element ds^2 and Gauss curvature $K(u, v)$. A set $\{U\}$ of analytic sur-

subset of $\{U_i\}$ for which a neighborhood of $(0, 0)$ exists such that the spherical image of $(0, 0)$ does not coincide with the spherical image of another point. The set $\{U_i\}$ is called connected if and only if S possesses at most one geodesic through O along which $K_u = 0$ and $K_v = 0$.

H. Busemann (Los Angeles, Calif.).

Handwritten signature/initials.

Source: Mathematical Reviews,

Vol 10 No. 4

YEFIMOV, N. V.

2000

Efimov, N. V. Addendum to the paper "Study of the infinitesimal deformations of certain classes of surfaces." Mat. Sbornik N.S. 22(64), 493-500 (1948). (Russian)
The author extends his previous result [Rec. Math. [Mat. Sbornik] N.S. 20(62), 27-53 (1947); these Rev. B, 597] to deformations of a surface of zero curvature of the type of a cylindrical strip, bounded by two plane ovals: formerly the planes of the two ovals were assumed parallel.
L. C. Young (Madison, Wis.).

Source: Mathematical Reviews.

Vol 10 No. 2

Spent 2/2/66

YEFIMOV, N. V.

"On Rigidity During Minor Deformation," Dokl. AN SSSR, 60, No.5, 1948

Yechimov, N. V.
YECHIMOV, N. V.

Yechimov, N. V. Qualitative problems of the theory of deformations of surfaces in the small. Trudy Mat. Inst. Steklov. 30, 128 pp. (1949). (Russian)

This book treats already published material except for certain refinements, principally in the last chapter. Each surface S obtained from (*) by an isometric deformation (a certain differentiability class) is put in a motion unusually revealing; everything is proved in detail, even the facts from elementary geometry.

Part 3 shows that an analytic surface which has at p contact of order l with its tangent plane admits analytic isometric deformations of a $h > 0$ for which the relation $F_{xx}^{(m)}\phi_{xx}^{(m)} - 2F_{xy}^{(m)}\phi_{xy}^{(m)} + F_{yy}^{(m)}\phi_{yy}^{(m)} = 0$, where $\phi^{(m)}(x, y)$ is a form of degree m , implies $\phi^{(m)}(x, y) = 0$. Levi's result with additions of A. Schild that for surfaces of m and l implies $m \leq l$. The main result is the theorem that

isometric deformations of a surface S which has at p contact of order l with its tangent plane and which is not analytic, are of class C^l . In the next two parts various invariants, in particular the index, are defined and their invariance is proved. Deformations of class C^l of such surfaces leave the index (at the point of curvature 0) invariant. Various applications of this fact are given in parts 10 and 11. The author also touches on

where $F_{xx}^{(m)}(x, y)$ is a form of degree j and $R(x, y)$ the remainder.

~~YEFIMOV, N.V.~~
~~E FIMOV, N.V.~~

*Efimov, N. V. Vysšaya Geometriya. [Higher Geometry]. 2d ed. OGIZ, Moscow-Leningrad, 1949. 502 pp.
The first edition appeared in 1945. (see Rev. 7. 256)

SMW 122

Source: Mathematical Reviews, 1950 Vol 11 No. 2

YEFIMOV, N. V.

PA 46/49T46

✓ USSR/Mathematics - Geometry
Mathematics - Biography

Mar/Apr 49

"Congratulatory Message to V. F. Kagan on His
Eightieth Birthday," N. V. Yefimov, A. M.
Lopshits, P. K. Rashevskiy, 10 pp

"Uspekhi Matemat Nauk" Vol IV, No 2

Kagan, head of Chair of Differential Geometry
(tensor analysis), Moscow State U, is noted for
work on Lobachevskian (Riemannian) geometry. He
has conducted a seminar in vector and tensor
analysis at the University since 1927. He was
awarded the Stalin Prize in 1942.

46/49T46

1. YEFIMOV, N. V.
2. USSR (600)
4. Physics and Mathematics
7. Theory of Congruences, S. P. Finikov. (Moscow-Leningrad, State Technical Press, 1950). Reviewed by N. V. Yefimov, Sov. Kniga No. 7, 1951.

9. ~~SECRET~~ Report U-3081, 16 Jan. 1953, Unclassified.

1. YEFIMOV, N. V.
2. USSR (600)
4. Physics and Mathematics
7. Lobachevskiy's in Analytical Exposition, B. Ya. Bukreyev.
(Series "Geometry of Lobachevskiy and the Development of his Ideas")
(Moscow-Leningrad, State Technical Press, 1951). Reviewed by
N. V. Yefimov, Sov. Kniga, No. 11, 1952.

9. [REDACTED] Report U-3081, 16 Jan 1953, Unclassified.

YEFIMOV, N. V.

USSR/Mathematics - Non-Euclidean Geometry Jul/Aug 52

"Criticism and Bibliography: P. S. Aleksandrov's Book,
'What Is Non-Euclidean Geometry?'" N. V. Yefimov

"Uspekhi Matemat Nauk" Vol VII, No 4 (50), pp 197, 198

Subject is published by the Acad of Pedagogical Sci
RSFSR Press, Moscow, 1950, 70 pp, 1.25 rubles. Re-
viewed book is considered too difficult for ordinary
students; the book is distinguished by its exceptional
compactness and satn, contg profound ideas of non-
Euclidean geometry and its connection with other fields
of mathematics.

225T73

YEFIMOV, L. V.

IA 242T76

USSR/Mathematics - Surfaces

Sep/Oct 52

"Certain Propositions Concerning Stiffness and Inflexibility," N. V. Yefimov

"Usp Matemat Nauk" Vol 7, No 5(51), pp 215-222

Proves some propositions which establish a connection between stiffness (of various orders) and analytical inflexibility of a surface. Expounds the preliminary knowledge necessary for formulating these propositions. Submitted 23 Sep 51.

242T76

1. YEFIMOV, N. V.
2. USSR (600)
4. Geometry, Plane
7. "Plane geometry of Lobachevskiy in an analytical exposition." B. Ya. Bukreyev.
Reviewed by N. V. Yefimov, Sov. kniga, no. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

YEFIMOV, N.V.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 527 - I

BOOK

Author: YEFIMOV, N. V.

Call No.: QA471.E4

Full Title: HIGHER GEOMETRY. Third Edition, Rewritten

Translated Title: Vysshaya geometriya. Izd. 3-e, pererabotannoye

PUBLISHING DATA

Originating Agency: The Ministry of Culture, USSR, -Glavizdat

Publishing House: State Publishing House of Technical and Theoretical Literature

Date: 1953

No. pp.: 528

No. of copies: 20,000

Editorial Staff: Contributions to the text were made by A. D. Aleksandrov, P. K. Rashevskiy and in the seminar of Moscow State University by V. F. Kagan.

PURPOSE: A textbook for state universities and pedagogical institutes, approved by the Main Administration of Higher Education of the Ministry of Culture of the USSR.

TEXT DATA

Coverage: The book is divided into three parts and eight chapters, which are subdivided into many sections. The first part covers the fundamentals of geometry (historical, axioms of elementary geometry, non-Euclidean theory of parallel lines, and study of the axioms). The second covers descriptive geometry (fundamentals, theoretical group principles of geometry). The third includes geometry of constant

YEFIMOV, N. V.

USSR/Mathematics - Invariants
Surface Flexure
Jul/Aug 53

"Investigating the Whole-Number Invariant N of Binary Forms of Degree $n \geq 4$," A. T. Makarova, Rostov-on-Don

Mat Sbor, Vol 33 (75), No 1, pp 233-240

Studies the integral-number invariant $N(F)$ of homogeneous forms $F(n)(x;y)$ of degree greater than 4, which is defined as follows: Let there be given a homogeneous form $F(n)(x;y)$ of degree n and let $\Phi(x;y)$ be an arbitrary homogeneous form of degree $m \geq n$. If from the identity $F(n) - 2F(n) + F(n) = 0$ it follows that $\Phi \neq 0$ for $m = n+1, n+2, \dots, n+h$, but there exists a form $\Phi \neq 0$ of degree $m = h+1$ satisfying the identity, then the invariant is $N(F) = h$; if $\Phi \neq 0$ for all $m \geq n$, then the invariant is $N = \infty$. Notes that the invariant $N(F)$ was introduced by N. V. Yefimov in the determination of the order of relative non-flexibility of surfaces ("Qualitative Problems of the Theory of Surfaces Deformations in the Small," Trudy Mat In-ta im Steklova, Vol 30 (1949)). Especially interesting are forms for which $N = \infty$, since the existence of such forms implies the existence of analytical surfaces that do not admit, even in the small, continuous flexures among the class of analytical surfaces.

271T92

(1)

(2)

271T92

The existence of such forms for $N = \infty$ was shown for the case $n=9$ by N. V. Yefimov. Presented 14 Dec 52.

YEfimov, N. V.

Ye²fimov, N. V. Investigation of a complete surface of negative curvature. Doklady Akad. Nauk SSSR (N.S.) 93, 393-395 (1953). (Russian)

Ye²fimov, N. V. Investigation of a single-valued projection of a surface of negative curvature. Doklady Akad. Nauk SSSR (N.S.) 93, 609-611 (1953). (Russian)

The first paper proves: A surface $z=f(x, y)$ which is defined and regular for all x, y cannot have a Gauss curvature which stays below a fixed negative constant. The example $z=e^x \sin y$ shows that a surface may have this property in a strip between parallel lines. The second paper establishes the theorem: If $z=f(x, y)$ is regular in a square of the (x, y) -plane and has curvature ≤ -1 , then the sides of the square have at most length 14. The exact value of the greatest lower bound for the side length is not known.

H. Busemann (Copenhagen).

YEFIMOV, N.V.; PETROVSKIY, I.G., akademik.

Study of single-valued projection of a surface of negative curvature. Dokl.
AN SSSR 93 no.4:609-611 D '53. (MLA 6:11)

1. Akademiya nauk SSSR (for Petrovskiy) 2. Moskovskiy lesotekhnicheskii
institut (for Yefimov). (Surfaces)

YEFIMOV, N.V.; SOLODKOV, V.A., redaktor; TUMARKINA, N.A., tekhnicheskiiy redaktor

[Short course in analytic geometry] Kratkii kurs analiticheskoi geometrii. Izd. 2-e, perer. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1954. 256 p. (MIRA 8:2)
(Geometry, Analytic)

YEFIMOV, N V

✓ Efimov, N. V. Some theorems on surfaces of negative 1 - F/W
curvature. Uspehi Mat. Nauk (N.S.) 10, no. 1 (63), 101-
105 (1955). (Russian)

M⁵ On a surface of class C^1 in E^3 with negative Gauss curva-
ture K consider a simply connected domain G which may,
however, cover parts of S several times. From a point p in
 G lay off on each geodesic in G an arc of length r , thus ob-
taining a generalized geodesic circle C_r . The following is
proved: if $K \leq -1$, then there is a universal estimate $r \leq f(\mu)$,
for instance $f(\mu) = \pi(1+\mu^2)^{1/2}$, where μ is the maximum of
the absolute value of the normal curvatures of S in C_r . The
following is a corollary: On a complete surface of class C^1
in E^3 either the sup of the absolute value of the mean
curvature is ∞ , or the sup of the Gauss curvature is non-
negative. The corollary is essentially equivalent to a
theorem stated without proof by J. J. Stoker [Bull. Amer.
Math. Soc. 60, 258 (1954)].

LFT

M. Ruzhansky

YEFIMOV, N.V.

"Riemann geometry and tensor analysis" by P.K. Rashevskii. Reviewed
by N.V. Efimov. Usp.mat.nauk 10 no.4:219-222 '55. (MLRA 9:1)
(Calculus of tensors) (Riemann surfaces) (Rashevskii, Petr
Konstantinovich)

YEFIMOV, N. V.

✓ * Yefimov, N. W. [Efimov, N. V.]. Differentialgeometrie.
Integralgeometrie. Große Sowjet-Enzyklopädie B. 6, 7.
Trübner Verlagsgesellschaft, Leipzig, 1955. 44 pp.
DM 1.80.

Motto

The translation into German is by Viktor Ziegler. The
article on differential geometry (35 pages) is from vol. 14,
Moscow 1952 (pp. 499-532) and the one on integral
geometry from vol. 15, Moscow 1953 (pp. 253-284).

Sm.

YEFIMOV, N.V.

SUBJECT USSR/MATHEMATICS/Geometry CARD 1/2 PG - 143
 AUTHOR EFIMOV N.V.
 TITLE The investigation of the spherical image of a surface of negative curvature.
 PERIODICAL Doklady Akad. Nauk 105, 628-630 (1955)
 reviewed 7/1956

The present paper is a continuation of two earlier papers of the author (Doklady Akad. Nauk 93, No.3 (1953); 93, No.4 (1953)). Surfaces of negative gaussian curvature in the large are investigated. It is assumed that the surfaces are simply connected and complete and that the set of regular points of the surface is closed in the space (this latter condition can be replaced by a weaker one). Let E be the unit sphere, Σ the surface, Σ' the spherical image. The mapping of Σ onto Σ' is local-homeomorphic. The author assumes Σ' e.g. as a Riemannian surface such that the mapping becomes global-homeomorphic. The following theorems on the spherical image are formulated:
 1) If the boundary of Σ' has an isolated point, then the exact upper bound of the Gaussian curvature of Σ equals zero. 2) Σ' may have a connecting part k' . If on Σ the upper bound of the gaussian curvature is smaller than zero, then k' is a piece of the arc of the large circle. 3) If the boundary of Σ' consists of a finite or countable set of connecting components, then on Σ the exact upper bound of the gaussian curvature equals zero. By aid of these theorems one may conclude on the property of the surface itself, e.g.:

KLETENIK, David Viktorovich; YEFIMOV, N.V., professor, redaktor; SOLODKOV, V.A.;
redaktor; TUMARKINA, N.A., tekhnicheskii redaktor

[Collection of problems in analytical geometry] Sbornik zadach po
analiticheskoi geometrii. Pod red. N.V.Yefimova. Izd. 4-oe, stereo-
tipnoe. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 240 p.
(MLRA 10:2)

(Geometry, Analytic--Problems, exercises, etc.)

YEFIMOV, N.V.

Nikolai Ivanovich Lobachevskii; on the 100th anniversary of his
death. Usp.mat.nauk 11 no.1:3-15 Ja-F '56. (MLRA 9:6)
(Lobachevskii, Nikolai Ivanovich, 1792-1856)

YEFIMOV, N.V.

"Course in differential geometry." A.V.Pogorelov. Reviewed by
N.V.Efimov. Usp.mat.nauk 11 no.4:227-229 Jl-Ag '56. (MLBA 9:11)
(Geometry, Differential) (Pogorelov, A.V.)

AKHIEZER, N.I.; YEFIMOV, N.V.

Boris Iakovlevich Levin; on the occasion of his 50th birthday.
Usp.mat.nauk 12 no.2(74):237-242 Mr-Apr '57. (MIRA 10:7)
(Levin, Boris Iakovlevich, 1906--)

20-118-1-3/58

AUTHOR: YEFIMOV, N.V. and STECHKIN, S.B.

TITLE: Some Properties of Chebyshev Sets (Nekotorye svoystva Chebyshevskikh mnozhestv)

PERIODICAL: Doklady Akademii Nauk ^{SSSR} 1958, Vol 118, Nr 1, pp 17-19 (USSR)

ABSTRACT: Let M be a set in the Banach space X . Let the distance from $x \in X$ to M be defined by $\rho(x, M) = \inf_{y \in M} \|x - y\|$. The set is called a Chebyshev set, if to every $x \in X$ there exists exactly one element $y \in M$ so that $\rho(x, M) = \rho(x, y)$.
 Theorem: If the unit sphere of the n -dimensional Banach space X_n possesses no conic points, then each bounded Chebyshev set $M \subset X_n$ is convex.
 Theorem: In the n -dimensional Banach space X_n the class of the bounded Chebyshev sets is identical with the class of the bounded convex sets if and only if the unit sphere of X_n is strongly convex and contains no conic points.
 For the case of the general Banach space X only some evident geometric considerations are given.

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Some Properties of Chebyshev Sets

20-118-1-3/58

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: June 25, 1957, by S.L. Sobolev

SUBMITTED: May 7, 1957

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Yefimov, N.V. and Stechkin, S.B. SOV/20-121-4-3/54

TITLE: Chebyshev Sets in Banach Spaces (Chebyshevskiye mnozhestva v banakhovykh prostranstvakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 4, pp 582-585 (USSR)

ABSTRACT: A set M lying in the metric space R is called a Chebyshev set, if for every $x \in R$ there exists exactly one $y \in M$, so that the distances $\varrho(x, y)$ and $\varrho(x, M)$ are equal: $\varrho(x, y) = \varrho(x, M)$.
 Let X be a strongly convex Banach space, S its unit sphere, L_n an n -dimensional subspace, $x \in S$ an arbitrary point, the distance of which from L_n is $\leq \varepsilon < 1$, Δ_{n-1} the $(n-1)$ -dimensional plane parallel to L_n and touching S in x . Let $y_1, y_2 \in L_n$ be those points in which the $(n-1)$ -dimensional tangential plane of S is parallel to Δ_{n-1} (consider the intersection of S and L_n). Let y be that one of the points y_1 and y_2 lying nearer to x . X is called a space with uniformly small obliqueness, if there exists a $k, k > 1$, so that

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Chebyshev Sets in Banach Spaces

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$\rho(x,y) \leq k \varepsilon$ for all $x \in S$.

Theorem: A Chebyshev compact in a Banach space with uniformly small obliqueness and with a smooth unit sphere is a convex set.

There are 2 references, 1 of which is Soviet, and 1 Polish.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: April 5, 1958, by I.N. Vekua, Academician

SUBMITTED: April 4, 1958

Card 2/2

YEFIMOV, N. V.

16(0)	PHASE I BOOK EXPLOITATION	SOV/3177
	Matematika v SSSR za srok let. 1917-1957. Iva li. Obzornyye stat'i (Mathematics in the USSR for Forty Years, 1917-1957). Vol. I. Review Articles) Moscow, Fizmatgiz, 1959. 1002 p. 5,500 copies printed.	
	Eds: A. G. Kurosh, (Chief Ed.), V. I. Bituytskov, V. G. Zdyansky, Ye. B. Dynkin, G. Ye. Shilova, and A. P. Yushkevich; Ed. (Inside book): A. P. Lapko; Tech. Ed.: S. M. Akhlarov.	
	PURPOSE: This book is intended for mathematicians and historians of mathematics interested in Soviet contributions to the field.	
	COVERAGE: This book is Volume I of a major 2-volume work on the history of Soviet mathematics. Volume I surveys the chief contributions made by Soviet mathematicians during the period 1917-1957; Volume II will contain a bibliography of major works since 1917 and biographic sketches of some of the leading mathematicians. This work follows the tradition set by two earlier works: Matematika v SSSR za pyatnadtsat' let (Mathematics in the USSR for 15 Years) and Matematika v SSSR za tridtsat' let (Mathematics in the USSR for 30 Years). The book is divided into the major divisions of the field, i.e., algebra, topology, theory of probabilities, functional analysis, etc., and contributions and outstanding problems in each discussed. A listing of some 1100 Soviet mathematicians is included with references to their contributions in the field.	857 858 861 869 874 879 887 893 893 895 896 897
	YEFIMOV, A. A. Mathematical Studies Connected With the Use of Computers	
	1. Theoretical studies in programming	
	2. Nonarithmetical use of computers	
	3. Theoretical studies of control systems	
	4. Certain other problems of mathematical cybernetics	
	Sura-Dura, M. R. Programming	
	Makhalov, S. V. Monography	
	Chetverukhin, E. P. Descriptive Geometry and its generalization. Fundamental theorem of axonometry and its generalization	
	1. Fundamental theorem of axonometry and its generalization	
	2. Parametric method of studying images. Positional and metric completeness	
	3. Other problems	
	Wellner, A. M. Jordan, A. P., and Pinikov, J. P. Differential Geometry	
	1. Problems of classical differential geometry and their generalizations	
	2. Riemann spaces and spaces of affine connection	
	3. Theory of nets	
	4. Induced connections	
	5. Complex spaces	
	6. Theory of geometric objects	
	Yefimov, N. V. Geometry "in the large"	
	1. Geometry on a convex surface of convex surfaces	
	2. Single sheeted surfaces	
	3. General theory of surfaces. Polyhedra	
	4. Existence, uniqueness, and regularity of surfaces under given conditions of Gaussian curvature.	
	5. Certain nonlinear boundary value problems	
	6. Singularity of surfaces given a function of the principle curvatures	
	7. Arithmetic invariants. Theorems on local deformations	
	8. Infinitesimal bendings	
	9. Certain results on synthetic geometry	
	Yushkevich, A. P. The History of Mathematics	
	1. Introduction	
	2. Mathematics of the ancient East	
	3. Mathematics in the Middle Ages	
	4. Mathematics in the Middle Ages	
	5. Works of modern mathematicians	
	6. Problems; works of a general nature	
	Author's Index	

KON-FOSSEN, Stefan Emmanuilovich; YEFIMOV, N.V., red.; LAPKO, A.F.,
red.; MURASHOVA, N.Ya., tekhn.red.

[Some general problems in differential geometry] Nekotorye
voprosy differentsial'noi geometrii v tselom. Pod red. N.V.
Efimova. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 303 p.
(MIRA 13:2)

(Geometry, Differential)