

URAZAKOV, I., kand.med.nauk

Most important problems in oncology. Vest.AN Kazakh.SSR 17 no.4:98
Ap '61. (MIRA 14:5)

(Oncology—Congresses)

URAZAKOV, I.U., zaslužbennyy vrach Kazakhskey SSR

Shubat and its products. Zdrav. Kazakh. 23 no.4:70-7. '63.
(MIRA 17:5)

URAZAKOV, I. U.

Application of preparation collosilicate in surgical practice.
Khirurgia, Moskva no. 5:78-79 May 1952. (CLML 22:3)

1. Of Chinbulak Children's Bone Tuberculosis Sanatorium (Head
Physician -- I. U. Urazakov), Alma-Ata.

URAZAKOV, I.U., kandidat meditsinskikh nauk (Alma-Ata)

Splint made of collosilicate. Fel'd. i akush. no.10:35-37 0 '54.
(SPLINTS, (MLRA 7:11)
colloidal solution of silicic acid salt for arm
splints)

URAZAKOV, Isture Urazakovich

[Collosilicate] kollosilikat; sposoby ego polucheniia v usloviakh
lechebnogo uchrezhdeniia i primeniia v ortopedicheskoi i khirur-
gicheskoi praktike. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR,
1956. 53 p. (MLRA 9:11)
(ORTHOPEDIC APPARATUS)

URAZAKOV, I.U., kandidat meditsinskikh nauk

New splint from collosilicate. Ortop., travm. i prtez. 17 no.3:66
My-Je '56. (MIRA 9:12)

1. Iz'kostnotuberkulesnogo otdeleniya detskogo sanatoriya Chim-Bulak
(sav. otd. i glavnyy vrach - I.U.Urazakov)
(SPLINTS,
collesilicate splints for orthopedic ther. (Rus))

URAZAKOV, I.U.

Surgical complications of poliomyelitis. Trudy Inst.klin. i eksp.
khir. AN Kazakh.SSR 3:117-122 '57. (MIRA 10:8)

1. Institut klinicheskoy i eksperimental'noy khirurgii Akademii
nauk Kazakhskoy SSR
(POLIOMYELITIS)

URAZAKOV, I.U.

The teaching of N.I. Pirogov on wounds. Trudy Inst. klin. i eksp.
khir. AN Kazakh.SSR 4:3-15 '58. (MIRA 12:4)
(PIROGOV, NIKOLAI IVANOVICH, 1810-1881)

URAZAKOV, I.U.; KIM, L.N.; LITVINENKO, M.I.; TEN, O.D.

Treatment of residual manifestations of poliomyelitis in children
with Sary-Bulak mud. Zdrav. Kazakh. 18 no.1:36-41 '58. (MIRA 13:7)

1. Iz Instituta klinicheskoy i eksperimental'noy khirurgii AN
KazSSR i detbol'nitsa "Askay" Alma-Atinskogo gor'zdrava.
(POLIOMYELITIS)
(SARY-BULAK (KAZAKHSTAN)---BATHS, MOOR AND MUD)

URAZAKOV, I.U., kand.meditsinskikh nauk

Active detection of children with deformations of the skeletal and motor apparatus. Zdrav. Kazakh. 18 no. 2:13-19 '58.

(MIRA 13:8)

1. Iz Instituta klinicheskoy i eksperimental'noy khirurgii (direktor - akademik A.N. Syzganov) Akademii nauk Kazakhskoy SSR.
(MUSCULOSKELETAL SYSTEM—ABNORMITIES AND DEFORMITIES)

URAZAKOV, I.U.

Use of collosilicate articles in the treatment of residual manifestations of poliomyelitis. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 6:175-180 '60. (MIRA 13:12)

(SILICIC ACID---THERAPEUTIC USE)
(ORTHOPEDIC APPARATUS) (POLIOMYELITIS)

URAZAKOV, I.U., kand.med.nauk

Crippling conditions in children and their control. Zdrav. Kazakh.
21 no. 3:16-20 '61. (MIRA 14:4)

1. Iz Institut klinicheskoy i eksperimental'noy khirurgii
(direktor - professor A.N. Sazganov) AN Kazakhskoy SSR.
(CRIPPLED CHILDREN—INSTITUTIONAL CARE)

URAZAKOV, I.U., kand.med.nauk

Accidents to children and measures for preventing them. Vest.
AN Kazakh. SSR 18 no.7:44-49 J1 '62. (MIRA 15:7)
(Kazakhstan--Children's accidents)

URAZAKOV, I.U.; TURABAYEV, A.

Analysis of the causes of craniocerebral injuries in children.
Zdrav. Kazakh. 22 no.5:12-16 '62. (MIRA 15:6)

1. Iz Instituta klinicheskoy i eksperimental'noy khirurgii
AN KazSSR (direktor - akademik A.N. Syzganov) i kafedry
ortopedii i travmatologii (zav. - prof. G.L. Edel'shteyn)
Kazakhskogo meditsinskogo instituta.

(SKULL--WOUNDS AND INJURIES)

(BRAIN--WOUNDS AND INJURIES)

URAZAKOV, I.; USEROV, K.

Characteristics of burns in children and their prevention.
Izv. AN Kazakh. SSR. Ser. med. nauk no.3:78-81 '63.
(MIRA 17:1)

ISAMBAYEV, Mamet; SYZGANOV, A.N., akademik, red.; BALMUKANOV, S.B., red.;
URAZAKOV, Ye.U., red.; GINZBURG, S.L., red.; ZHANPEISOV, Ye., red.;
ASAINOV, M., red.; IZMAYLOV, A.O., red.; PROKHOROV, V.P., tekhn.red.

[Russian-Latin-Kazakh terminological dictionary] Russko-latino-
kazakhskii terminologicheskii slovar'. Sost.M.Isambaev. Pod
obshchei red. A.N.Syzganova. Almaty, Izd-vo Akad.nauk Kazakhskoi
SSR. Pt.5. [Medicine] Meditsina. 1960. 506 p. (MIRA 13:12)

1. AN KazSSR (for Syzganov).
(DICTIONARIES, POLYGLOT) (MEDICINE--DICTIONARIES)

URAZALINOV, M.S., kapitan tekhnicheskoy sluzhby

An assembly-line method is good. Vest.Vozd.Fl. no.2:62 F '61.
(MIRA 14:7)

(Airplanes—Maintenance and repair)

GORELIK, S.S.; YELYUTIN, V.P.; MOZZHUKHIN, Ye.I.; URAZALIYEV, U.S.; FUNKE, V.F.

X-ray investigation of recrystallization processes of titanium, zirconium, and molybdenum borides, and titanium and tungsten carbides. Izv. vys. ucheb. zav.; tsvet. met. 5 no.4:143-148 (MIRA 16:5) '62.

1. Moskovskiy institut stali, kafedry redkikh metallov, fiziki metallov i rentgenografii.
(Borides) (Carbides) (Crystallization)

Aviatsionnyy tekhnologicheskyy institut

AUTHOR: Urasayev, A. F., Shishmarev, V. Yu.

TITLE: Increasing the reliability and accuracy of potentiometers used in gyroscopic instruments

SOURCE: Moscow. Aviatsionnyy tekhnologicheskyy institut. Trudy*, no. 59, 1964. Tekhnologiya i konstruirovaniye giropriborov (Technology and design of gyroscopic instruments), 111-137

TOPIC TAGS: potentiometer, gyroscope, gyro instrument, potentiometer design, aircraft instrumentation, electrical contact, autopilot

ABSTRACT: The authors briefly review the modern theory of instrument reliability and discuss the use of potentiometers in aircraft instruments in detail from this viewpoint. It is pointed out that the most critical element in a potentiometer is the electrical contact between the wiper and the contact surface. The most common failure is the most serious reliability problem. The authors discuss the causes of contact failure and describe methods for increasing contact reliability. Several examples are described. The possibility of using a contact with a special parallel contact is also discussed. The effect of the contact on the potentiometer's accuracy is also discussed. Cord

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ACCESSION NR: AT4046040

specific examples. The reasons for contact failure are discussed, and the case when two parallel contacts are used, one of which is displaced with respect to the other by either one turn or a half a turn of the potentiometer winding, is examined in detail. In the first case, when the contacts are shifted and this has no effect with windings having more than one turn, the resolution is a factor of two greater than with one turn. The characteristics of potentiometers with a resistance of 1000 ohms and a voltage at the contacts of 100 V are shown. It is shown that the resolution of such a potentiometer is also practically unaffected when the contacts are displaced by one or two turns with respect to each other, the accuracy of such a potentiometer is increased in its middle range by a factor of two. The theoretical conclusions concerning the relative displacement of two parallel contacts were corroborated experimentally. The agreement between theoretical and experimental characteristics obtained confirms the validity of the theoretical conclusions concerning the characteristics of potentiometers in their middle range by displacing two parallel contacts.

A detailed examination of the characteristics of a potentiometer which has two oppositely opposed parallel wiping contacts shows that the resolution and the winding error decreases by a factor of two throughout the entire potentiometer length compared with

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ACCESSION NR: AT4046040

a potentiometer whose wiping contacts are not displaced with respect to each other. To ensure an accurate and stable relative position of the contact points of two parallel wiping contacts, a new wiping contact design is proposed and illustrated. Orig art has 24 formulas, 16 figures and 2 tables.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskii institut (Moscow Institute of Aviation Technology)

SUBMITTED: 00

ENCL: 00

SUB CODE: K NO

NO REF SOV: 000

OTHER: 000

Card 3/3

GARANIN, N.P., red.; LASHEVICH, V.I., red.; SURIKOV, N.I., red.; URAZAYEV, A.K., red.; FISENKO, V.A., red.; YURASOVA, M.K., red.; MEL'NIKOV, V.I., tekhn. red.

[Handbook and guide to the Irtysh and the lower part of the Ob' Valley] Putevoditel'-spravochnik po Irtyshu i Nizhnei Obi. Omsk, Omskoe knizhnoe izd-vo, 1960. 156 p. (MIRA 14:10)

1. Irtyshskoye otdeleniye nauchno-tekhnicheskogo obshchestva vodonogo transporta (for all except Yurasova, Mel'nikov). (Irtysh Valley--Guidebooks) (Ob' Valley--Guidebooks)

URAZAYEV, A. Z.

URAZAYEV, A. Z. -- "The Prophylaxis of Ureter-Vaginal Fistulae in Broad-Scale Extirpation of Uterine Cancer (Clinical-Experimental Investigation)." Kazan' State Medical Inst. Kazan', 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

URAZAYEV, A.Z.

SIDOROV, N.Ye., professor; URAZAYEV, A.Z.

Prevention of ureterovaginal fistulas following extensive
extirpation of a cancerous uterus. Sov.med.21 no.3:78-81 Nr '57.

(MIRA 10:7)

1. Iz akushersko-ginekologicheskoy kliniki (dir. - prof. N.Ye.
Sidorov) Kazanskogo instituta usovershenstvovaniya vrachey
imeni V.I.Lenina.

(UTERUS NEOPLASMS, surg.

causing ureterovaginal fistulae, prev.)

(URETERS, fistula

ureterovaginal, prev. after extensive resection of
cancerous uterus)

(VAGINA, fistula

same)

URAZAYEV, A.Z., kand.med.nauk

Two cases of complete inversion of the uterus. Kaz.-med.zhur.
40 no.2:76-77 Mr-Apr '59. (MIRA 12:11)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof.N.Ye.
Sidorov) Kazanskogo instituta usovershenstvovaniya vrachey
imeni V.I.Lenina.

(UTERUS--DISPLACEMENTS)

URAZAYEV, A.Z., kand.med.nauk

Fistulas of the female generative organs as revealed by data of the Obstetrics Clinic of the Kazan State Institute for Specialization and Advanced Training of Physicians from 1946 to 1956. Kaz.med.zhur. 40 no.5:43-45 S-0 '59. (MIRA 13:7)

1. Iz akushersko-gienkologicheskoy kliniki (nav. - prof. N.Ye. Sidorov) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey im. V.I. Lenina.
(FISTULA)

URAZAYEV, B.M.

Some dike formations of the Zirabulak Hills. Zap.Us.otd.Vses.
min.ob-va no.6:41-43 '54. (MLRA 9:12)

1. Kafedra petrologii i metallogenii Sredneaziatskogo politekh-
nicheskogo instituta.
(Zirabulak Hills--Dikes (Geology))

BAYMUKHAMEDOV, Kh.M.; MATSOKINA, T.M.; SALOV, P.I.; URZAYEV, B.M.; KHAMRABAYEV,
I.Kh.; CHEKUMOV, V.S.

Letter to the editor. Izv. AN SSSR Ser.geol.21 no.3:111-114 Mr '56.
(Ore deposits) (MIRA 9:7)

20-6-9/59

AUTHOR
TITLE

URAZBAYEV, B.M.

On the Growth of the Number of the Totally Critical Cyclic Fields of the Degree l^h .

PERIODICAL

(O roste vpolne kriticheskikh tsiklicheskikh poley stepeni l^h -Russian). Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 6, pp 1222 - 1225, U.S.S.R.

ABSTRACT

The note under review is devoted to a consideration of the problem of the distribution of the totally critical cyclic fields of the degree l^h , the discriminants of which are not larger than a known boundary value. In this context, l stands for a simple natural number, and h denotes an arbitrary number. The field K is then called totally critical, if all simple divisors of the discriminant of K are totally critical simple numbers of the field K . There obviously exists an infinite number of totally critical fields. On basis of the Kronecker-Weber theorem dealing with the Abel fields over the field of the rational numbers it is possible to give thought to group-theoretical considerations and to derive a general expression for the discriminant of the Abel fields of the degree l^a . In this context, a is a whole number. Theorem 1 yields a representation of the discriminant D of the Abel field K_l . Theorem 2 the discriminant of the totally critical Abel field of the degree l has the form of $(p_1 p_2 \dots p_m)^{H(1-1/l^h)}$. Here $H = l^a$, and $p_i = l^{h_i}$ ($i=1, 2, \dots, m$) are different simple numbers, $m > 1$. Theorem 3 the discriminant of the totally critical cyclic field of the degree l^h reads $(p_1 p_2 \dots p_m)^{h-1}$. In this context, $p_i = l^{h_i}$ ($i=1, 2, \dots, m$) are different simple numbers, $m > 1$.

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On the Growth of the Number of the Totally Critical Cyclic Fields
of the Degree l^h .

20-6-9/59

Theorem 4 the number of the totally critical cyclic fields of the degree l^h which have the discriminant given in Theorem 3 equals $\varphi(l^h)^{m-1}$.

Theorem 5 the number N of the totally critical cyclic fields of the degree l^h , the discriminant of which is not larger than x^{lh-1} , is represented by the

asymptotic formula $N = \lambda x + O(x^{1-(1/\varphi(l^h)) + \varepsilon})$. In this context, λ is a constant which depends only on the structural properties of the fields investigated, and ε is an arbitrary number.

The proof is made with the aid of the classical method of the distribution of the simple numbers.

(No reproduction)

ASSOCIATION State Pedagogic Institute Alma Ata
PRESENTED BY VINOGRADOV I.M., Member of the Academy, on 19 November 1956
SUBMITTED 12.11.1956
AVAILABLE Library of Congress
Card 2/2

URAZBAYEV, B.M.

Asymptotic evaluation of arithmetic sums. Izv.AN Kazakh.SSR.
Ser.mat.i mekh. no.8:70-87 '59. (MIRA 13:5)
(Arithmetic)

URAZBAYEV, B.M.

Asymptotic formula for the growth of the number of cyclic fields
of the power L^n . *Izv. AN Kazakh SSR. Ser. mat. i mekh.* no.8:88-91
1979.

(Fields, Algebraic)

(MIRA 13:5)

URAZAYEV, B.M.

Some characteristics of the manifestation of ore mineralization in the southern part of the Zirabulak Mountains. Trudy Sred.-Az. politekh.inst. no.12:23-30 '61.

Mineralogical types of skarns in the southwestern part of the Zirabulak Mountains. Ibid.:59-69

Formation of skarns in the Zirabulak Mountain region. (MIRA 18:12)
Ibid.:76-90

URAZAYEV, B.M.; KARELIN, A.G.

Geological results of geophysical investigations in the
Khabandytau and Pistaltau region. Trudy Sred.-Az.politekh.
inst. no.12:159-167 '61.

(MIRA 18:12)

URAZAYEV, B.M.; SURGUTANOV, Ye.I.

Possibility of mapping igneous rocks in western Uzbekistan
using magnetometry. Trudy Sred.-Az.politekh.inst. no.12:176-
179 '61. (MIRA 18:12)

AL'MUKHANBETOV, D.; URAZAYEV, B.M.

Possibilities of using the methods of electric prospecting in
Dzhezkazgan District. Izv. AN Kazakh. SSR. Ser. geol. no. 1:58-64
'62. (MIRA 15:5)

S/169/63/000/002/094/127
D263/D307

AUTHORS: Urazayev, B. M., Babayants, S. P., Glushkov, M. I.,
Al'mukhanbetov, D., Koristashevskaya, T. I., Popov,
A. A., Antonenko, A. N., Kolik, A. L., Kotlyarov,
A. M., Kyrbayev, P., Gul'nitskiy, V. L. and Tsare-
gradskiy, V. A.

TITLE: Geological and tectonic structure of the Dzhezkazgan-
Sarysuyyskiy region in the light of existing geophy-
sical data, results and further directions of work

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1963, 17, ab-
stract 2D99 (In collection: Bol'shoy Dzhezkazgan. Ge-
ol. i metallogeniya. Alma-Ata AN KazSSR, 1961, 82-100)

TEXT: Geophysical work was carried out in the above region with
other regional investigations, to discover areas promising for the
prospecting for copper and other useful minerals. The geological
and tectonic structure of the region is complex. Copper deposits
are associated with local folded structures of second and higher
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Geological and tectonic ...

S/169/63/000/002/094/127
D263/D307

orders, complicated by disjunctive disturbances, and lie in the gray sandstones of the Dzhezkazgan beds. Geophysical investigations, begun in 1955, make use of all methods. In spite of the difficulty of geological interpretation of geophysical data, it was possible to propose a structural-tectonic structure for the region. Three structural stages were marked out, 5 geologically distinct territories were resolved, and 3 main submeridional structures were discovered. A series of intrusive massifs was also found by gravimetric and magnetic explorations, which do not emerge on the surface of the erosion shear, together with a number of large scale tearing disturbances and fractures. Deep seismic soundings provided a picture of the course of the surface of Lower Paleozoic basement and of deeper boundaries. Electric exploration allowed a resolution of the Dzhezkazgan strata and demarkation of several salt domes. Owing to widespread occurrence of presumably salt dome structures and to the favorable section of the Upper Devonian and Lower Carboniferous, the Dzhezkazgan-Saruykiy region may be regarded as a potential oil and gas area. From the results of combined geophysical works, it was possible to mark out regions which

Card 2/3

Geological and tectonic ...

S/169/63/000/002/094/127
D263/D307

are perspective for copper mineralization, among these the western border of the anticline. [Abstracter's note: Complete translation.]

Card 3/3

ALL INFO AR6032152

SOURCE CODE: UR/0169/66/000/006/D013/D013

AUTHOR: Kotlyarov, A. M.; Kolik, A. L.; Tsaregradskiy, V. A.; Urazayev, B. M.; Koristoshevsaya, T. I.; Al'mukhanbetov, D. V.

TITLE: Geophysical investigation of unexplored areas of the Dzhezkazgan-Sarysuysk region

SOURCE: Ref. zh. Geofizika, Abs. 6D90

REF SOURCE: Sb. Geofiz. issled. v Kazakhstane. Alma-Ata, Kazakhstan, 1965, 120-126

TOPIC TAGS: petroleum geology, geologic exploration, oil, seismic logging, electric logging, geophysical exploration, oil deposits/Dzhezkazgan

ABSTRACT: Data obtained on the physical properties of rock in laboratory studies of samples and in electrical and seismic logging are presented. Geological and geophysical analyses showed that intense positive anomalies extending linearly along the meridional (up to 1000 y) are formed by iron quartzites, porphyritoides, and epidote and amphibole shales of the Karsakpay series. The area distribution

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UDC: 550.830(574.5)

ACC NR: AR6032152

of the electrical properties of the rock had not been sufficiently studied. The study of the polarization characteristics of rock and ore was begun only in 1961. Residual magnetization was studied principally in extruded and metamorphic rock. Geophysical investigations showed a block structure for the Dzhezkazgan trough—the synclinal region situated to the north of the Dzhezkazgan deposits. Geophysical studies and drilling operations revealed a rather wide distribution of halogenic formations, whose age was determined roughly as Permian. Thick Lower Paleozoic strata and overlying rocks with oil-bearing characteristics, salt dome tectonics, indications of oil in the gaseous and liquid phase in the Permian cross-section, and favorable structure, all indicate that the Dzhezkazgan-Sarysuysk trough is an oil-bearing region. Yu. Kaznacheyeva. [Translation of abstract] [SP]

SUB CODE: 08/

Card 2/2

URATAEV, I.M.

Some data on the time of mineralization in the Okurtau Range
(Tajik S.S.R.). Dokl. AN SSSR 141 no.1:183-184 N '61.
(MIRA 14:11)

1. Geologicheskii institut Kazanskogo filiala AN SSSR.
Predstavleno akademikom A.G.Betelhtinym.
(Okurtau Range--Ore deposits)
(Skarns)

URAZAYEV, I.M.

Methods for the calculation of electromotive force originated in the contact of sulfide ore bodies and enclosing rocks as revealed by a study in the Capot mine in Cananea (Mexico). Izv. Kazan. fil. AN SSSR. Ser. geol. nauk no.10:52-76 '63.

Methods of allowing for corrections for the distant zone when converting z_a into H_a . Ibid.:59-64

(MIRA 18:6)

✱

MIROPOL'SKIY, L.M., glav. red.; SEYFUL-MULYUKOV, R.B., otv. red.;
AVER'YANOV, V.I., red.; MIROPOL'SKAYA, G.L., red.;
URAZAYEV, I.M., red.; SHISHKIN, A.V., red.; YUSUPOV, B.M.,
red.; KALANTAROV, A.P., red.izd-va; POLENOVA, T.P., tekhn.
red.

[Characteristics of the distribution of oil and gas fields
in the Volga-Ural region] Zakonomernosti razmeshcheniia
mestorozhdenii nefiti i gaza Volgo-Ural'skoi oblasti. Mo-
skva, Izd-vo AN SSSR, 1963. 365 p. (MIRA 17:2)

1. Kazanskiy filial AN SSSR (for Aver'yanov, Miropol'skaya,
Urazayev, Yusupov).

URAZAYEV, I.M.


Distribution of natural electric field on the earth's surface
depending on the mineral composition of ore bodies. Izv. Kazan.
fil. AN SSSR. Ser. geol. nauk no.10:102-106 '63.

(MIRA 18:6)

URAZAYEV, I.M.

Dependence on natural electric currents of the development stages of the oxidation zone of sulfide deposits. Razved. geofiz. no.2:85-91 '64.

(MIRA 18:5)



URAZAYEV, I. M.

Subsurface structure of the crystalline basement of Udmurtia and northwestern Tatarstan based on the interpretation data of geomagnetic field anomalies. Izv AN SSSR Ser geol 29 no. 5:42-55 My '64. (MIRA 17:5)

1. Geologicheskiy institut Kazanskogo filiala AN SSSR, Kazan '.

URAZAYEV, I.M.; SALIKHOV, A.G.

Geomagnetic field of Tataristan and methods for the interpretation
of Za and Ha anomalies using nomographs. Izv. Kazan. fil. AN SSSR.
Ser. geol. nauk no.10:3-17 '63. (MIRA 18:6)

SALIKHOV, A.G.; URAZAYEV, I.M.; YUSUPOV, B.M.

Geophysical characteristics of the northwestern regions of the
Tatar A.S.S.R. in connection with planning oil and gas prospecting.
Izv. Kazan. fil. AN SSSR. Ser. geol. nauk no.10:69-76 '63.
(MIRA 18:6)

VARNIKOV, V.V., dotsent; URAZAYEV, N.A., dotsent; PADERIN, V.P., dotsent

Pathologicophysiological changes in traumatic pericarditis.
Veterinariia 42 no.7:63-66 J1 '65. (MIRA 18:9)

1. Semipalatinskiy zootekhnichesko-veterinarnyy institut.

PERELATOV, V.D.; URZAYEV, N.M., red.; AKULOV, A.N., red.;
VATRIN, P.M., red.; DRYACHKOVA, N.G., red.; KASPAROV,
A.A., red.; LITVINOV, N.N., red.

[Work experience of the Rostov Public Health Station in
rural areas under the conditions of enlarged districts]
Opyt raboty Rostovskoi sanepidstantsii na sele v uslo-
viiakh ukрупnennykh raionov. Moskva: Meditsina, 1964. 9 p.
(MIRA 18:7)

USSR / Human and Animal Physiology. Internal Secretion, Thyroid Gland. T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70348

Author : Urazayev, H. M.

Inst : Kazan' Medical Institute

Title : The Natural Content of Molybdenum in the Soil and Food Products of the TASSR and the MASSR

Orig Pub : Sb. nauchn. rabot Kazansk. med. in-ta, 1957, No 1, 65-69

Abstract : The content of Mo in the soil and food products in different regions of the TASSR is, on the average, higher than that in the Orshanskiy and Volzhskiy Rayons of the MASSR. It was shown that there is an inverse relationship between the content of Mo in the soil and food products, and the incidence of endemic goiter. Insufficient quantities of Mo in the food, along with other factors, may favor the development of endemic goiter. -- L. A. Kashchevskaya

Card 1/1

Urazayev, N. M.

PAKHOMYCHEV, A.I., prof.; CHEMKASOV, Ye.F., dots.; BEREZINA, T.A., assistant.;
VISHNEVSKAYA, Ye.P., assistant.; DANILEVSKAYA, A.A., assistant.;
SARKISYANTS, E.E., assistant.; KOZLOVA, T.A., assistant.; VOROB'YEVA,
R.S., assistant.; URAZAYEV, N.M., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Methods of teaching hygiene in medical and pediatric departments
of institutes of medicine] Metodika prepodavaniia gigeny na
lechebno i pediatricheskom fakul'tetakh meditsinskikh institutov.
Moskva, Gos. izd-vo med. lit-ry, 1958. 142 p. (MIRA 11:12)
(HYGIENE--STUDY AND TEACHING)

AL'F, S.L.; MISHUSTIN, Ye.M.; PERTSOVSKAYA, M.I.; KHLBNIKOV, N.I.;
SYSIN, A.M., prof., red.; URAZAYEV, N.M., red.; BUL'DYAYEV,
N.A., tekhn.red.

[Indications of the sanitary condition of the soil of populated
places] Pokazateli sanitarnogo sostoiania pochvy naselennykh
meat. Pod red. A.M.Sysina. Moskva, Gos.izd-vo med.lit-ry, 1959.
149 p. (MIRA 13:5)

1. Deystvitel'nyy chlen ANU SSSR (for Sysin).
(SOILS--BACTERIOLOGY)

NERETIN, Vyacheslav Yakovlevich; KURLYANDSKAYA, E.B., doktor biolog.nauk,
prof., obshchiy red.; URAZAYEV, N.M., red.; ROMANOVA, Z.N., tekhn.
red.

[Materials on the toxicology of some lithium compounds] Materialy
k toksikologii nekotorykh soedinenii litia. Pod obshchei red.
E.B.Kurliandskoi. Moskva, Gos.izd-vo med.lit-ry, 1959. 154 p.
(MIRA 13:2)

(LITHIUM--TOXICOLOGY)

ARON, D.I.; STAVITSKAYA, A.B., kand. biol. nauk; GOL'DFEL'D, A.Ya.,
doktor med. nauk, red.; MERKOV, A.M., doktor med. nauk,
red.; TSEYTLIN, A.G., doktor med.nauk, red.; URAZAYEV, N.K.,
red.; ZUYEVA, N.K., tekhn. red.

[Materials on the physical development of children and youths
in some cities and rural settlements of the U.S.S.R.] Materi-
aly po fizicheskomu razvitiu detei i podrostkov nekotorykh
gorodov i sel'skikh mestnostei Ssiuza SSR. Pod red. A.IA.
Gol'dfel'd, A.M.Merkova, A.G.Tseitlina. Moskva, Medgiz.
No.1. 1962. 374 p. (MIRA 15:10)

1. Institut organizatsii zdravookhraneniya i istorii meditsiny
im. N.A.Semashko (for Aron). 2. Institut pediatrii Akademii
meditsinskikh nauk SSSR (for Stavitskaya).
(CHILDREN-GROWTH)

GABIDULLIN, Gabdulla Khayrulliyevich, dots.; URAZAYEV, Nikolay
Andreyevich, dots.; NEDIL'KO, A.T., red.

[Noncommunicable bronchopneumonias in animals] Nezaraz-
rye - bronhopnevmonii zhivotnykh. Alma-Ata, Kazsel'khoz-
giz, 1963. 31 p. (MIRA 17:10)

1. Semipalatinskiy zoovetinstitut (for Gabidullin, Urazayev).

GOROMOSO¹, M.S., red.; GROMBAKH, S.M., red.; ZHDANOV, V.M., red.;
POKROVSKIY, A.A., red.; KROTKOV, F.G., red.; LETAVET, A.A.,
red.; LITVINOV, N.N., red.; RYAZANOV, V.A., red.; URAZAYEV,
N.M., red.; CHERKINSKIY, S.N., red.; KHAMIDULLIN, R.S., red.

[Transactions of the 14th All-Union Congress of Hygienists
and Public Health Physicians] Trudy Vsesoiuznogo z"ezda
gigienistov i sanitarnykh vrachei, 14. Moskva, Medgiz,
1963. 322 p. (MIRA 18:2)

1. Vsesoyuznyy s"yezd gigiyenistov i sanitarnykh vrachey.
14th. 2. Glavnyy uchenyy sekretar' AMN SSSR (for Zhdanov).

UR RZ 4771, 1-1

AID P - 4295

Subject : USSR/Engineering
Card 1/1 Pub. 128 - 20/25
Author : Urazayev, Z. F., Kand Tech. Sci.
Title : Measurement of the non-axiality of a two-step cylinder shaft on a prism.
Periodical : Vest. mash., #2, p. 64-65, F 1956
Abstract : A method is shown of ascertaining the play of a cylinder shaft and indicating its non-axiality by placing and turning the shaft on a prism and thereby measuring its divergence from uniaxiality. Formulae, diagrams.
Institution : None
Submitted : No date

URAZAYEV, Z.F., kandidat tekhnicheskikh nauk.

V-block measurement of untoward shaft-step eccentricity. Vest.
mash. 36 no.2:64-65 F '56. (MLRA 9:5)
(Shafts and shafting)

URAZAYEV, Z.F., kand.tekhn.nauk

Technological bases for machining gymbals parts. Trudy MATI no.47:
23-38 '60. (MIRA 14:2)

(Metal cutting)

URAZAYEV, Z. F.

PLATE I BOOK EXTRACTS 607/3397

Безопасность обобщенно-проблемного прогрессивного
Приоритетные (испытания) техника (Instrument Manufacture and
Measurement Techniques) Moscow, Mashin, 1960. 642 p. Extracts slip inserted.
3,000 copies printed.

Ed.: A. B. Gerasimov, Doctor of Technical Sciences, Professor; Tech. Ed.:
A. Ya. Rabinovich, Doctor of Technical Sciences, Professor; Mashin
Construction (Mashin); I. V. Ponomarev, Engineer.

REMARKS: This collection of articles is intended for scientific and technical
personnel in the instrument industry.

CONTENTS: The 23 articles deal with the present state and the outlook for the
development of instrument manufacture and measurement techniques. New problems
of design, construction, and manufacture of instruments are discussed in the first
two sections. Emphasis is given to problems of automation and mechanization of
production and to the application of new techniques in program control, auto-
mation, and chipless wiring of wires. The third section deals with new
instrumental methods involving the use of ultrasonic and radio isotopes. Some
theoretical aspects of wiring and measurement techniques are also discussed.
In this section, no personalities are mentioned. References accompany several
of the articles.

Urazayev, Z. F., Candidate of Technical Sciences. Effect of
Temperature on the Friction Moment of Ball Bearings Used in
Optoelectric Instruments 77

Vybovskiy, N. A., Candidate of Technical Sciences. Estimating
the Magnitude of Beclium in Small-Medium Size Counting Used in
Servo Systems 91

Orlov, M. A., Candidate of Technical Sciences. Conditions for
Improving the Stability of Magnetostrictive Instruments 100

Gerasimov, A. B., Candidate of Technical Sciences. Electronic
Techniques of Mechanical Values and Their Application 115

MANUFACTURING METHODS AND DEVICES

Gerasimov, A. B., Engineer. Application of Program Control in
The Instrument Manufacture 139

Gerasimov, A. B., Doctor of Technical Sciences, Professor; A. I. Burakov,
Candidate of Technical Sciences, and G. M. Koshchikov, Candidate of
Technical Sciences. Increasing the Accuracy of Measuring on Auto-
matic Lathes and Milling Their Field of Application 162

Orlov, M. A., Candidate of Technical Sciences, V. V. Kozlov, Engineer,
and K. A. Kuznetsov, Engineer. Some Ways of Reducing Labor Consumption
in the Manufacture of Dies for Cold Pressworking in Instrument Manufacture 190

Rabinovich, A. B., Engineer. Cold Pressworking of Metals in Small-Lot
Production 201

Kuznetsov, V. D., Engineer. Use of Ultrasonics in Instrument Manufacture 220

Rabinovich, A. B., Engineer. Methods of Calibrating Profilometer Scales 235

Orlov, M. A., Candidate of Technical Sciences. Fundamentals of the
Calculation for Accuracy in the Machining of Small-Machine Gears 256

Rabinovich, A. B., Engineer. Recent Developments in the Technology of
Boring of Parts in Instrument Manufacture 272

Card 4/6

(12)

S/146/60/003/004/010/010
B004/B056AUTHOR: Urazayev, Z. F.TITLE: The Problem of Projecting Machine Elements With
Noncircular Cross Sections 14PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,
1960, Vol. 3, No. 4, pp. 108-110

TEXT: The author describes the transformation of a uniform rotation into an alternating motion with small amplitude such as occurs in vibration presses, computers, etc. For the cross section of the machine element causing this transformation an equation is written down: $r = R + a \cos n\varphi$ (1). r is the current radius of the cross section; φ is the angle between the current radius and a certain initial position; R is the mean radius; a is the greatest difference between r and R ; n is the coefficient showing how often r attains a maximum or minimum value. Fig. 1 shows cross sections for $n = 2$ and $n = 3$ at different ratios between R and a . For the function (1) the condition is made that at a maximum ratio of a to R , the cross section remains convex on the entire circumference. The curvature K is expressed

Card 1/2

The Problem of Projecting Machine Elements
With Noncircular Cross Sections

S/146/60/003/004/010/010
B004/B056

in polar coordinates by the equation $K = (r^2 + 2r'^2 - rr'') / (r^2 + r'^2)^{3/2}$.

Convexity is conserved if $r^2 + 2r' - r''$ does not vanish. By substituting z

for $\cos n\psi$ one obtains for (1): $r^2 + 2r'^2 - r'' = (R + az)^2 + 2a^2n^2(1 - z^2)$ ✓

+ $(R + az)anz$, and herefrom for convexity the condition: $a \leq R/(n^2 + 1)$ (2).
This paper was recommended by the kafedra tekhnologii aviapriborostroyeniya
(Chair of the Technology of Aircraft Instrument Construction). There are
1 figure and 1 Soviet reference.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskii institut
(Moscow Aviation Technologic Institute)

SUBMITTED: September 29, 1959

Card 2/2

URAZAYEVA, Z.V.

Influence of removal of the chromaffin tissue on conditioned reflex changes in cardiac function. Biul. eksp. biol. i med. 52 no.7:9-14 JI '61. (MIRA 15:3)

1. Iz kafedry normal'noy fiziologii (zaveduyushchiy - dotsent Z.V. Urazayeva) Altayskogo meditsinskogo instituta, Barnaul. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.

(HEART)
(CONDITIONED RESPONSE) (ADRENAL GLANDS)

S/536/61/000/052/005/008
D201/D301

13,2520

AUTHORS: Urazayev, Z.F., Candidate of Technical Sciences, and
Shishmarev, V.Yu., Engineer

TITLE: Quality of a special fluid filling of floating gyroscopic
instruments

SOURCE: Moscow. Aviatsionnyy tekhnologicheskii institut. Trudy,
no. 52, 1961. Nekotoryye voprosy sovremennoy tekhnologii
priborostroyeniya, 52.-60

TEXT: The term 'quality of filling' is defined as the amount of residual air bubbles left in the housing of a floating gyroscopic instrument after filling with a special fluid to reduce the total amount of friction in its bearings. The authors consider the effects of air bubbles on the gyro errors and describe a special installation and method of filling. The apparatus has a bellows type thermostat with two visual indicators of the bellows pressure. The indicators are arranged so that the difference in their readings, i.e. the reading of vacuum during the filling process and of atmospheric pressure restored after it had been finished, determines accurately

Card 1/2

✓
B

Quality of a special fluid filling ... S/536/61/000/052/005/008
D201/D301

the volume of the residual air bubble in the housing. Although the total air content left after the filling using the above method is of the order of 1 - 2 mm³, this amount is considered to be still too large for proper operation of modern gyroscopic instruments of integrating or differentiating type as used in aviation and further investigations in this field are thought to be necessary. There are 3 figures and 1 Soviet-bloc reference. ✓
B

Card 2/2

S/263/62/000/009/010/010
1007/1207

AUTHORS: Urazayev, Z. F. and Shishmarev, V. Yu.

TITLE: On the quality of filling floating gyroscopic devices by special liquids

PERIODICAL: Referativnyy zhurnal, otedl'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 9, 1962. 63, abstract 32.9.430 (Tr. Mosk. aviats. tekhnol. in-ta), no. 52, 1961, 52-60

TEXT: A unit for filling the float chamber is described and method for checking the filling quality are outlined. These methods ensure accurate measurements of the volume of the air bubble in the device. Suggestion is made to use as measuring devices in the quality-control circuit, instruments requiring only small measuring force, e.g. microcaters. The existing quality of filling (total volume of air bubbles in the device amounts to 1-2 mm³) is found to be unsatisfactory.

[Abstracter's note: Complete translation.]

Card 1/1

KORABLEV, P.A.; SUMINOV, V.M.; URAZAYEV, Z.F., kand. tekhn. nauk,
retsenzent; FRID, L.I., inzh., red.; DEMKINA, N.F.,
tekhn. red.

[Automatic control of the readjustment of cutting tools on
automatic lathes] Avtomatizatsiia podnastroiki instrumenta na
tokarnykh avtomatakh. Moskva, Mashgiz, 1963. 129 p.
(Lathes) (Automatic control) (MIRA 16:10)

URAZAYEV, Z.F.

Increasing the reliability and precision of potentiometer
pickups. Priborostroenie no.6:31-32 Je '63. (MIRA 16:8)

(Potentiometer)

GIPPENREYTER, Yu.B.; URAZAYEVA, V.A.

Research on the eye movements in performing metric tasks. Vop.
psikhol. 9 no.6:76-84 N-D '63. (MIRA 17:4)

1. Kafedra psikhologii Moskovskogo gosudarstvennogo universiteta.

[Faint, illegible text]

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widespread acceptance in...

Card 1/2

L 8682-65

ACCESSION NR: AT4046033

great number of factors and this makes their calculation laborious and cumbersome
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L 00795-67 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c) JD/
ACC NR: AR6004302 RH SOURCE CODE: UR/0276/65/000/009/8096/8096

34
34
B.

AUTHORS: Urazayev, Z. F.; Fadeyev, A. M.

TITLE: Specifications of machines for producing high precision details

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 98708

REF SOURCE: Sb. Osnovn. napravleniya i perspektivy razvitiya tekhnol. priborostr. M., 1964, 79-87

TOPIC TAGS: lathes, turning machine, metalworking machinery, threading machine, milling machine

ABSTRACT: It is pointed out that rigidity of machines has an actual bearing on the accuracy of the geometric form and relative position of the surfaces being machined. In choosing equipment for producing details with low tolerances, the degree of rigidity should be considered together with other parameters of geometrical accuracy of its elements. Variation of rigidity with the angle of spindle turn should also be taken into consideration. Under actual conditions, the "give" in the assembly does not remain constant at all angular positions of the spindle. "Give" is a quality opposite to rigidity and constitutes the main cause of machining inaccuracy. A system of tolerances for the rigidity parameters of metal-cutting machines of five types has been developed on the basis of investigations. These machine types are:

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1) turning--screw cutting; 2) internal milling; 3) flat milling; 4) gang milling; 5) radial grinding. Rigidity norms are indicated for every accuracy class of a machine according of the classification proposed by ENIMS. 4 illustrations, 1 table. V. Golubeva /Translation of abstract/

SUB CODE: 13

Card 2/2 mjs

URAZAYEV, Z. G., kandi. tekhn. nauk. CHISHTIYEV, V. Ya., Inzh.

Increasing the reliability and precision of potentiometer
pickups of gyroscopic instruments. Izv. Vuzov. Ser. Tekhn. Nauki
1964. (MIRA 17:10)

ACCESSION NR: AT4046041

S/2536/64/000/059/0138/0168

AUTHOR: Shishmarev, V. Yu. (Engineer); Zakharova, L. I. (Engineer); Urazayev, Z.F.
(Candidate of technical sciences)

TITLE: A method of designing current-carrying wipers for potentiometers used in
gyroscopic instruments

SOURCE: Moscow. Aviatsonnyy tekhnologicheskiy institut. Trudy*, no. 59, 1964.
Tekhnologiya i konstruirovaniye giropriborov (Technology and design of gyroscopic
instruments), 138-168

TOPIC TAGS: gyroscope, gyro instrument, gyro potentiometer, potentiometer brush,
commutator brush, wiper design, potentiometer wiper, electrical contact

ABSTRACT: The main shortcoming of potentiometers is the low reliability of the contact
at the point where the wiper touches the potentiometer winding. This paper examines the
effect of wiper parameters on the reliability of potentiometric transducers, and proposes
a method for designing current-carrying wipers. The effect of the contact pressure of
wipers is examined in detail. Formulas for the minimal contact pressure assuring a
reliable contact pressure are derived. For contacts between noble metals the contact
pressure should be between 0.2 and 1.2G. The problem of the constancy of the contact

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ACCESSION NR: AT4046041

pressure with time is investigated. In this connection, it is noted that for small objects like wipers the effect of internal stresses due to thermal and mechanical processing can be relatively large. The effect of the natural frequency of oscillation of a wiper or the wiper assembly on the reliability of contact is examined, and it is concluded that the frequency of natural oscillation of a wiper must be about twice as high as the maximum frequency of the vibrations actually occurring. On the basis of the above considerations a method for designing the main parameters of wipers is developed which takes into account given operating conditions such as vibration and overload; in this design method a wiper is considered as a beam, one end of which is fixed and the other end of which, the point of contact, is considered to be supported on rollers. Design formulas are derived for arm-type wipers of constant circular cross-section having a flattened segment near the mounting place. The design formulas derived are conveniently summarized in a Table, and their use is illustrated in specific examples. The method shows that for given operating conditions and material the magnitude of the desired contact pressure uniquely determines the optimum value of the wiper diameter and length. The operating conditions as well as the wiper metal uniquely determine the optimum magnitude of the

Card 2/3

ACCESSION NR: AT4046041

wiper bend inflection to be used. Following this design method the reliability of potentiometric transducers and, consequently, of the instruments where they are used, will be increased. The method proposed can also be employed to design other types of current-carrying wipers like commutator brushes, elastic parts of central contacts, etc. Orig. art. has: 106 formulas, 19 figures, and 5 tables.

ASSOCIATION: Moskovskiy Aviatsionnyy tekhnologicheskyy institut (Moscow Institute of Aviation Technology)

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, NG

NO REF SOV: 003

OTHER: 000

Card 3/3

URAZAYEVA, Z.V.

ABRAMOVA, N.M.; ANISIMOVA, V.F.; GUTOVSKAYA, A.V.; KIBUAKOV, A.V.;
URAZAYEVA, Z.V.

Role of dynamic cardiac nerves in the trophic regulation of the
myocardium [with summary in English]. Biul.eksp.biol. i med. 44
no.7:50-54 J1 '57. (MIRA 10:12)

1. Iz kafedry normal'noy fiziologii (zav. - chlen-korrespondent AMN
SSSR prof. A.V.Kibyakov) Kazanskogo gosudarstvennogomeditsinskogo
instituta. Predstavlena deystvitel'nym chlenom AMN SSSR prof.
S.Ye.Severinym.

(MYOCARDIUM, metabolism,

eff. of stimulation of autonomic innervation of
heart (Rus))

(AUTONOMIC NERVOUS SYSTEM, physiology,

eff. of stimulation of dynamic nerves of heart on
myocardial metab. (Rus))

ABRAMOVA, N.M., ANISIMOVA, V.F., GUTOVSKAYA, A.V., KIBYAKOV, A.V., URAZAYEVA, Z.V.

Trophic changes in the myocardium in chronotropic effect. *Biul. eksp. biol. i med.* 45 no.6:22-25 Je '58 (MIRA 11:8)

1. Iz kafedry normal'noy fiziologii (zav. - chlen-korrespondent AMN SSSR A.V. Kibyakov) Kazanskogo meditsinskogo instituta. Predstavlena deystvitel'nyy chelnom AMN SSSR S.Ye. Severinym.

(HEART, physiology
eff. of rhythm changes, trophic aspects (Rus))

URAZBAKIYEVA, S. V.

URAZBAKIYEVA, S. V. -- "Investigation of the Effect of Sulfanilamide Preparations and Antibiotics on the Causative Agents of Bacterial Dysentery." First Moscow Order of Lenin Medical Inst imeni I. M. Sechenov. Moscow, 1955. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

URAZBAEV, B.M.

24739. URAZBAEV, B.M. Nekotorye Primeneniya Metoda Mnogougol'nika Nyotona. Uchen.
Zapiski Kazakh. Gos. Un-ta im. Kirova, T. XII, 1949 S.-34-39

SO: Letopis' No.33, 1949

URAZBAYEV, B. M.

Mathematical Reviews
1954
Number Theory

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Urazbaev, B. M. On the discriminant of a cyclic field of prime degree. *Izvestiya Akad. Nauk Kazh. SSR* 1950, no. 97, Ser. Mat. Mekh. 4, 19-32 (1956). (Russian)
Let K be a cyclic extension of the field of rationals of odd prime degree p . Then the discriminant D of K has the form $D = p^a \prod q_i^{p-1}$, where the q_i are distinct rational prime numbers of the form $np+1$ and $a=0$ or $a=2(p-1)$.
W. H. Mills (New Haven, Conn.)

URAZBAYEV, P. M.

Mathematical Reviews
May 1954
Number Theory

10-7-54
LL

Urazbaev, B. M. On indexes of algebraic equations. *Izvestiya Akad. Nauk Kazah. SSR* 1950, no. 97, Ser. Mat. Meh. 4, 33-41 (1950). (Russian)

Let R be the field of rational numbers, and α a root of the irreducible polynomial $f(x)$ with integral coefficients and leading coefficient 1. Then the index m of $f(x)$ is defined by $d(\alpha) = Dm^2$, where $d(\alpha)$ is the discriminant of $f(x)$ and D the discriminant of the field $R(\alpha)$ over R . Let p be a rational prime, and let $f(x) \equiv \prod p_i(x)^{e_i}$ be the factorization of $f(x)$ modulo p . Put $f(x) = \prod p_i(x)^{e_i} + pM(x)$. Then p is a factor of m if and only if there exists a j such that $e_j \geq 2$ and $p_j(x)$ divides $M(x)$ modulo p .

W. H. Mills.

URAZBAYEV, B. M.

(2)

Urazbaev, B. M. On the density of distribution of points of cyclic fields of prime degree. *Izvestiya Akad. Nauk Kazah. SSR* 1951, no. 62, Ser. Mat. Meh. 5, 25-36 (1951). (Russian).

Let p be an odd prime. If α is an element of K , a cyclic extension of the field of rational numbers of degree p , then α can be regarded as the point $(\alpha^{(1)}, \dots, \alpha^{(p)})$ of p -dimensional Euclidean space, where $\alpha^{(1)}, \dots, \alpha^{(p)}$ are the conjugates of α . The author considers the set of all cyclic extensions of the rationals of degree p , and the set of all algebraic integers of these fields that correspond to points in the interior of a sphere of radius R . The number M_p of such points is given by

$$M_p = \sigma_p R^p + O(R^{p-1}) \text{ if } p > 3, \quad M_3 = \sigma_3 R^3 \log R + O(R^2),$$

where the σ_p are non-zero constants that depend only on p .

W. H. Mills (New Haven, Conn.).

Mathematical Reviews
May 1954
Number Theory

10-7-54

URAZBAYEV, B. M.

Urazbaev, B. M. On the density of distribution of cyclic fields of prime degree. *Izvestiya Akad. Nauk Kazah. SSR* 1951, no. 62, Ser. Mat. Meh. 5, 37-52 (1951). (Russian)

The number L of cyclic extensions of the field of rationals having degree p and discriminant not greater than N is given by the asymptotic formula $L = CN + O(N^{1/p})$ where C is a positive constant depending only on p .

W. H. Mills (New Haven, Conn.)

Mathematical Reviews
May 1954
Number Theory

10-7-54
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UPAZBAYEV, B. M.

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Urazbaev, B. M. On the number of cyclic fields of prime degree with given discriminant. *Izvestiya Akad. Nauk Kazah. SSR* 1951, no. 62, Ser. Mat. Meh. 5, 53-67 (1951). (Russian)

Let p be an odd prime, and let q_1, q_2, \dots, q_t be distinct primes of the form $np+1$. Then the number of cyclic extensions of the field of rationals of degree p and discriminant $(p^a q_1 \dots q_t)^{p-1}$ is $(p-1)^t$ if $a=2$ and is $(p-1)^{t-1}$ if $a=0$. There are no other possible discriminants for cyclic extensions of the rationals of degree p . [Cf. the paper reviewed above.]
W. H. Mills (New Haven, Conn.).

Mathematical Reviews
May 1954
Number Theory

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L

URAZBAYEV, B.M., kandidat fiziko-matematicheskikh nauk.

On the number of 1^h degree cyclic fields. Izv. AN Kazakh SSR. Ser.
astron., fiz., mat. i mekh. no.129:51-57 '53. (MLBA 9:5)
(Groups, Theory of) (Galois theory)

URAZBAYEV, B.M.

Asymptotic formula in algebra. Dokl. AN SSSR 95 no.5:935-938 Ap '54.
(MLRA 7:4)

1. Matematicheskiy institut im. V.A.Steklova Akademii nauk SSSR.
Predstavleno akademikom I.M.Vinogradovym.
(Algebra, Universal)

USSR/Math - Topology

Card 1/1

Author : Urazbaev, B. M.

Title : An asymptotic formula for the growth of a number of abelian fields of the l^2 degree.

Periodical : Dokl AN SSSR 95, 6, 1145 - 1147, 21 Apr 1954

Abstract : The article deals with abelian fields of the (1,1) type which, in respect to rational numbers, represents fields of the l^2 degree, i.e., a direct product of two cyclic fields of a simple degree l . The article further states that every field can be expressed through a discriminant, but the number of fields represented by the discriminant is $\frac{(e+1)^{k-1}}{e} \cdot (e-1)^{k-2}$.

If, however, the discriminant of a field is not higher than $x^{e(e-1)}$ the number of fields represented by that discriminant can be expressed by an asymptotic formula: $x^{e(e-1)} + O(x^{e(e-1)-\epsilon}); \epsilon > 0$
 The article gives proof of this statement.

Institution : Acad. of Scs. of the USSR

Submitted : 9 Feb 1954

Urazbayev, B. 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. Suprunenko, D. A. (Minsk). Linear Nilpotent Groups. 35

Turkin, V. K. (Moscow). Quasi-monomial Representations of Groups. 35

Urazbayev, B. M. (Alma-Ata). On Some Asymptotic Formulas in Algebra. 35-36

Mention is made of Delone, B. N. and Fadeyev, D. K.

Khion, Ya. V. (Tartu). Rings Normed by Means of Semi-groups. 35-36

Chernikov, S. N. (Molotov). Nilpotent Groups. 37-40

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TITLE An asymptotic formula for the increase of the number of the abelian fields of the type $(1,1,\dots,1)$.PERIODICAL Doklady Akad. Nauk 105, 659-661 (1955)
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Let the abelian field K be of the type $(\underbrace{1,1,\dots,1}_{k \text{ times}})$ (i.e. it is a direct

product of k cyclic fields of degree l (l - prime number)) and possess the conductor $f = p_1 \cdot p_2 \cdot \dots \cdot p_n$, ($p_i \equiv 1(l)$) ($i=1,2,\dots,n$). The following theorems are proved:

1. The discriminant of K is $D = (p_1 p_2 \cdot \dots \cdot p_n)^{l^{k-1}(l-1)}$.

2. The number N of all abelian fields K with the discriminant D is

$$N = A_0(l^{k-1})^n + A_1(l^{k-1} - 1)^n + \dots + A_{k-1}(l-1)^n,$$

where the terms A_0, A_1, \dots, A_{k-1} depend only on l and k .

3. The number of the abelian fields of the type $(\underbrace{1,1,\dots,1}_{k \text{ times}})$, the discriminants

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of which are not greater than $x^{l^{k-1}(1-1)}$, is given by the asymptotic formula

$$xf(\lg x) + o\left(x^{1 - \frac{1}{l^{k-1}} + \varepsilon}\right) \quad \varepsilon > 0 \text{ arbitrary.}$$

Here $f(y)$ is a polynomial of degree $l^{k-1} + l^{k-2} + \dots + 1$ the coefficients of which depend on l and k .

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