POLYAKOVA, T.M. (g.Minsk)

Arrangement of coefficient in chemical equations. Khim. v shkole
10 no.1:38-41 Ja-F '55.   (MIRA 8:4)
          (Chemistry—Notation)

POLYAKOVA, T.N. (Moskva).

Remarks on the book "Quadratic and irrational equations" by P.A. Budantsev, G.M. Shchipakin. Mat. v shkole no.4:92-93 S-O '57.
(Equations, Quadratic)   (Equations, Irrational)   (MIRA 10:8)
(Budantsev, G.M.)   (Shchipakin, G.M.)

Polyakova, T.N.

44-1-16D

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 2 (USSR)

AUTHOR: Polyakova, T.N.

TITLE: Problems of the Equivalence of Equations and of Systems of Equations in the Elementary Mathematics Course of the Pedagogical Institutes   (Voprosy ravnosilnosti uravneniy i sistem uravneniy v kurse elementarny matematiki pedagogicheskikh institutov)

ABSTRACT: Bibliographic entry of the author's dissertation for the degree of Candidate of Pedagogical Science in Mathematical Methods, presented to the Moscow Municipal Pedagogical Institute (Mosk. gov. ped. inst.), Moscow, 1956.

ASSOCIATION: Moscow Municipal Pedagogical Institute (Mosk. gor. ped. in-t)

Card 1/1

POLYAKOVA, T.P.

Roentgenographic study of the rhenium mineral in the ores of
Dzhezkazgan. Vest. AN Kazakh SSR 22 no.8:69-73 Ag '65.
(MIRA 18:9)

PRESNYAKOV, A.A.; CHERVYAKOVA, V.V.; POLYAKOVA, T.P.; NOVIKOV, A.V.; VOLEYNIK,
     S.N.; BAIMBETOV, N.B.

Investigating the properties of plain and lead β-brass. Trudy Inst.
met. i obog. AN Kazakh. SSR 10:25-31 '64.   (MIRA 18:7)

SATPAYEVA, T.A.; SAFARGALIYEV, G.S.; POLYAKOVA, T.P.; SATPAYEVA, M.K.;
        MARZUVANOV, V.L.; FURSOVA, M.Z.

New complex sulfide in the ores of the Dzhezkazgan deposit.
Izv. AN Kazakh. SSR. Ser. geol. 21 no.2:29-41 Mr-Ap'64.
                                            (MIRA 17:5)
1. Institut geologicheskikh nauk imeni K.I. Satpayeva AN
Kazakhskoy SSR, Alma-Ata i Dzhezkazganskiy gornometallurgicheskiy
kombinat, gorod Dzhezkazgan.

ANTONEVICH, N.K., kand.tekhn.nauk; POLYAKOVA, T.P., mladshiy nauchnyy
sotrudnik

Parameters of electrophoretic dessication of slips of pastes
for colored mosaic tiles. Stek.i ker. 19 no.12:15-18 D '62.
(MIRA 16:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stroitel'-
noy keramiki.
(Electrophoresis)   (Clay—Drying)

MELIKHOV, V.D.; KASYMBEKOVA, K.K.; POLYAKOVA, T.P.; PRESNYAKOV, A.A.

Transformation in   -brass. Fiz. met. i metalloved. 16 no.5:700–
702 N '63.   (MIRA 17:2)

1. Institut metallurgii obogashcheniya AN KazSSR.

SHUSTER, R.L.; POLYAKOVA, T.P.

Presence of "devitrite" in foamglass. Trudy Inst. stroi. i
stroimat. AN Kazakh SSR 2:163-166   '59.   (MIRA 12:10)
                    (Glass, Cellular)

VERSHININ, I.M., red.; MAMUFOWSKIY, N.S., red.; POLYAKOVA, T.P.,
        red.; LOZANSKAYA, L L., red.; GRIGOR'YEVA, V.P., red.

[40 years of Soviet Moldavia; statistical abstract] So-
vetskaia Moldaviia za 40 let; statisticheskii sbornik.
Kishinev, Gos. stat. izd-vo, 1964. 196 p. (MIRA 17:10)

1. Moldavian S.S.R. TSentral'noye statisticheskoye uprav-
leniye.

GOL'DMAN, M.M.; BONDAREV, V.B.; GALIN, V.I.; POLYAKOVA, T.P.; KAIRBAYEVA, Z.K.

Role of potassium in the leaching of nepheline rocks. Trudy Inst. met. i obog. AN Kazakh. SSR 8:72-76 '63   (MIRA 17:8)

YEVUKOV, Yu.S.; POLYAKOV, ...

Sanitary and hygienic aspects of the manufacture of PN-3
make polyester resins. Plast. massy no.3:19-21 '64.
(MIRA 17:6)

ZUBAKOV, S.M.; BABIN, P.N.; KOKA, P.A.; KARLYSHEV, B.N.; POLYAKOVA, T.P.

Mineralogical composition of chromite ores from the Kimpersaskiy deposit. Trudy Inst. stroi. i stroimat. AN Kazakh SSR 1:114-130

(MIRA 11:6)

'58.

(Aktyubinsk Province—Chromite)

ISAYEV, I.P., prof., doktor tekhn. nauk; SIKEVICH, A.A., kand. tekhn. nauk; BRUNSHTEYN, D.P., inzh.; HIRKOV, Yu.M., inzh.; POLYAKOVA, T.S., inzh.

Distribution of reverse voltage in series-connected rectifiers.
Trudy MIIT no.207:15-29 '65.
(MIRA 19:1)

L 6477-66   EWT(m)/EWA(h)   DM

ACCESSION NR: AP5019805   UR/0089/65/019/001/0028/0035
                                                       551.577.7

AUTHOR: Malakhov, S. G.; Sereda, G. A.; Brendakov, V. F.; Polyakova, T. V.;
Pervunina, R. I.; Svishcheva, V. I.; Churkin, V. N.

TITLE: Radioactive fallout on the territory of SSSR in 1963

SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 28-35

TOPIC TAGS: radioactive fallout, radio strontium, cerium, praseodymium, radio-
active decay, radioactive contamination, soil behavior

ABSTRACT: The article contains summary data on the radioactive fission-product
fallout and its content in the soil of SSSR during 1963. The fallout was gathered
on standard gauze sheets of 0.3 m^2 area for 24 hours, distributed in 10--20 points
in each administrative region, oblast, or republic. The ashes resulting from com-
bustion of these sheets were analyzed radiochemically and by γ spectroscopy. The
Ce^{144}, Ce^{141}, and Zr^{95} was determined by γ spectrometry with an NaI(Tl) crystal
and a pulse-height analyzer. The Sr^{90} was separated radiochemically. Tables are
presented, showing the intensity of the radioactive fallout by quarters as a func-
tion of the geographic latitude, and averaged over the SSSR territory, and the
density of Sr^{90} fallout in SSSR soil compared with other regions of the northern

Card 1/2

L 6477-66
ACCESSION NR: AP5019805

hemisphere in 1959, 1962, and 1963. Latitude distribution of the content of vari-
ous isotopes in the SSSR soil and the ratio of $Ce^{144} + Pr^{144}$ and Sr^{90} to the total
content of fallout in soil are also tabulated. Plots showing the decrease in radio-
activity taking place in 1962--1964 are included. The contributions of the various
nuclear test explosions to the fallout are estimated. It is concluded that unless
new tests are made the average Sr^{90} content in the SSSR soil will be 60--70
microcurie/km^2. Orig. art. has: 4 figures and 5 tables.

ASSOCIATION: none

SUBMITTED: 20Aug64   ENCL: 00   SUB CODE: NP

NR REF SOV: 007   OTHER: 018

nw
Card 2/2

MALAKHOV, S.G.; SEREDA, G.A.; BRENDAKOV. V.F.; POLYAKOVA, L.V.; PERVUNINA, R.I.; SVISHCHEVA, V.I.; CHURKIN, V.N.

Radioactive fallout on the territory of the U.S.S.R. in 1963. Atom. energ. 19 no.1:28-35 Jl '65.   (MIRA 18:7)

YELAGIN, Ivan Nikolayevich, kand. sel'khoz. nauk; POLYAKOVA, V.,
red.; PAVLOVA, S., tekhn. red.

[Buckwheat]Grechikha. Moskva, Mosk. rabochii, 1962. 57 p.
(MIRA 15:9)

(Buckwheat)

TSVETAYEVA, Zinaida Niklayevna; POLYAKOVA, V., red.; LIL'YE, A., tekhn.red.

[House plants] Komnatnye rasteniia. [Moskva] Mosk.rabochii, 1957.
259 p.   (MIRA 11:4)
          (House plants)

RED'KIN, Andrey Petrovich, professor; ZHUGINA, Ye., redaktor; POLYAKOVA, V.,
redaktor; YAKOVLEVA, Ye., tekhnicheskiy redaktor

[Hints for the pigtender] Sovety svinarke. [Moskva] Moskovskii
rabochii, 1955. 110 p.   (MLRA 9:8)
(Swine)

YERMAKOVA, Agaf'ya Petrovna, geroy Sotsialisticheskogo Truda; POLYAKOVA, V.,
redaktor; YAKOVLEVA, Ye., tekhnicheskiy redaktor

[How we attained skill; experience of potato growers on the
"Borodino" Collective Farm] Kak my dobilis' masterstva; opyt
zvena kartofelevodov kolkhoza "Borodino." [Moskva] Moskovskii
rabochii, 1956. 38 p.   (MLRA 9:12)
         (Potatoes)

ZHUKOVA, T.; SARANIN, K.; BELYAYEV, I.; TYMCHINKO, L.; BIRYUKOVA, V.;
KHOKHLOV, F.; YERMOLAYEV, P.; MORYGANOV, A.; BUTIKOV, Yevg.;
CHIRKOV, Yu., starshiy nauchnyy sotr.; POLYAKOVA, V., red.;
USTINOVA, S., tekhn. red.

[Corn] Kukuruza. Moskva, Mosk. rabochii, 1962. 99 p.
                                              (MIRA 15:12)

1. Nauchnyye sotrudniki Nauchno-issledovatel'skogo instituta
sel'skogo khozyaystva tsentral'nykh rayonov nechernozemnoy
zony (for all except Chirkov, Polyakova Ustinova). 2. TSent-
ral'nyy institut prognozov (for Chirkov).
                    (Corn (Maize))

ALEKSIN, Faddey Yefimovich; REPCHANSKIY, Aleksandr Aleksandrovich;
POLYAKOVA, V., red.; KUZNETSOVA, A., tekhn. red.

[Mechanized harvesting of sugar beets for feed] Mekhaniza-
tsiia uborki sakharnoi svekly na kormovye tseli. Moskva,
Mosk. rabochii, 1961. 61 p. (MIRA 15:2)
                    (Sugar beets--Harvesting)

KRYLOVA,Vera Semenovna, kand. sel'khoz. nauk PETUKHOVA, Yekaterina
Aleksandrovna, kand. sel'khoz. nauk; YEMELINA, Nina Trofimovna,
kand. sel'khoz. nauk; POLYAKOVA, V., red.; PAVLOVA, S., tekhn.
red.

[Vitamins in the feeding of farm animals and poultry] Vitaminy v
kormlenii sel'skokhoziaistvennykh zhivotnykh i ptitsy. Moskva,
Mosk. rabochii, 1962. 93 p.   (MIRA 15:6)
                    (Vitamins)   (Feeding)

ROSTOVSKIY, K.V.; TSUKANOV, Ye.V.; CHISTOV, V.K.; POLYAKOVA, V.,
        red.; SHLYK, M., tekhn.red.

[V.V.Kuibyshev Kolomna Diesel Locomotive Plant, 1863-
1963] Kolomenskii teplovozostroitel'nyy zavod imeni
V.V.Kuibysheva, 1863-1963. Moskva, Mosk. rabochii, 1963.
179 p.   (MIRA 17:1)

GROMOV, Andrey Nikolayevich; POLYAKOVA, V., red.; SHLYK, M., tekhn.
red.

[Lilac] Siren'. Moskva, Mosk. rabochii, 1963. 246 p.
(MIRA 16:7)
(Lilacs)

POLYAKOVA, V.

Toys of the German Democratic Republic. Mest. prom. i khud.
promys. 3 no.9:38-39 S '62.   (MIRA 16:12)

1. Starshiy inzh. Nauchno-issledovatel'skogo instituta igrushki,
Zagorsk.

TSOKOL. Ye.I., Laureat ordena Trudovogo Krasnogo Znameni, parnikovod;
POLYAKOVA, V., red.; PAVLOVA, S., tekhn. red.

[Secret of success of a master greenhouse manager] Sekrety ma-
stera-parnikovoda. Moskva, Mosk. rabochii, 1961. 30 p.
(MIRA 15:1)

1. Kolkhoz "Rodina" Zvenigorodskogo rayona Moskovskoy oblasti
(for TSokol).
(Greenhouses)

KOCHETOVA, Nina Vasil'yevna,, kand. sel'skokhoz. nauk; POLYAKOVA, V., red.;
SHLYK, M., tekhn. red.

[Growing white clover for seed] Klever belyi na semena. Moskva,
Mosk. rabochii, 1960. 54 p.   (MIRA 14:7)
(White clover)

YELAGIN, I.N., kand.sel'skokhoz.nauk; POLYAKOVA, V., red.; SHLYK, M.,
tekhn.red.

[Buckwheat] Grechikha. Moskva, Mosk.rabochii, 1961. 21 p.
(MIRA 14:7)

(Buckwheat)

OS'MAKOV, I.G., kand. sel'khoz. nauk; CHERNENKOV, A.D., kand. sel'khoz. nauk;
POLYAKOVA, V., red.; SHLYK, M., tekhn. red.

[Sugar beet as feed] Sakharnaia svekla na kormovye tseli. Moskva,
Mosk. rabochii, 1961. 27 p.   (MIRA 14:7)
(Sugar beets)

SERGEYEV, P.A., doktor sel'khoz. nauk; POLYAKOVA, V., red.; SHLYK, M.,
    tekhn. red.

[Perennial grasses: clover, timothy grass, alfalfa, bird's foot
trefoil] Mnogoletnie travy: klever, timofeevka, liutserna, liad-
venets rogatyi. Moskva, Mosk. rabochii, 1961. 29 p.
            (Grasses)   (MIRA 14:7)

PAUKOV, Semen Markovich, ogronom; POLYAKOVA, V., red.; PAVLOVA, S., tekhn. red.

[Over-all mechanization of a dairy farm] Kompleksnaia mekhanizatsiia molochnoi fermy. Moskva, Mosk. rabochii, 1961. 35 p.
(MIRA 14:7)

1. Predsedatel' kolkhoza imeni Dzerzhinskogo Lyuberetskogo rayona Moskovskoy oblasti (for Paukov)
(Dairying)   (Farm mechanization)

POLYANINA, G.D.

Metallic-film retarding lens. Izv. vys. ucheb. zav.; radiotekh. 3
no.4:515-516 Jl-Ag '60.   (MIRA 13:10)

1. Rekomendovano kafedroy obshchey fiziki Moskovskogo gosudarstvennogo
pedagogicheskogo instituta im. V.I.Lenina.
                          (Microwaves)

NOVOSELOV, Yu.K., kand. sel'khoz. nauk; ROGOV, M.S.; POLYAKOVA, V., red.;
      POKHLEBKINA, M., tekhn. red.

      [Raising forage beans for seed] Kormovye boby na semena. Moskva,
      Mosk. rabochii, 1962. 14 p.   (MIRA 15:6)

      1. Nauchnyy rabotnik volostnogo ispolnitel'nogo
      komiteta Moskovskoy oblasti (for Rogov).
                  (Moscow Province--Beans)

STARTSEV, Yevgeniy Mikhaylovich; POLYAKOVA, V., red.; KUZNETSOVA, A.,
tekhn. red.

[Beans and corn are companion crops] Boby i kukuruza druzhat.
Moskva, Mosk. rabochii, 1962. 17 p.   (MIRA 15:6)

1. Upravlyayushchiy otdeleniyem No.5 sovkhoza im. 1 maya
Shchelkovskogo rayona (for Startsev).
                (Beans)   (Corn (Maize))

TRET'YAKOV, N.N., kand. sel'khoz. nauk; POLYAKOVA, V., red.;
    POKHLEBKINA, M., tekhn. red.

[Corn] Kukuruza. Moskva, Mosk. rabochii, 1962. 33 p.
                                     (MIRA 15:6)

        (Moscow Province—Corn (Maize))

TSVETAYEVA, Z.N.; POLYAKOVA, V., red.; KUZNETSOVA, A., tekhn. red.

[House plants]Komnatnye rasteniia. Moskva, Mosk. rabochii,
1962. 271 p.   (MIRA 16:2)
           (House plants)

VASIL'YEVA, Ye., r.d.; POLYAKOVA, V., red.; YAKOVLEVA, Ye., tekhn.
red.

[Align with the beacon lights] Kurs na maiaki. Moskva, Mosk.
rabochii, 1961. 94 p. (MIRA 15:8)
(Agriculture)

IVASHKIN, Vasiliy Dmitriyevich, udarnik kommunisticheskogo truda
(1922-); POLYAKOVA, V., red.; PAVLOVA, S., tekhn. red.

[Your hand, comrade!]Ruku, tovarishch! Moskva, Mosk. ra-
bochii, 1962. 42 p.   (MIRA 15:8)

1. Zven'yevoy-mekhanizator sovkhoza "Zaokskiy", Podmoskov'ye
i Deputat Balkovskogo sel'skogo soveta, chlen Serpukhovskogo
Rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza
(for Ivashkin).
        (Agricultural machinery--Technological innovations)

TYLKINA, M.A.; POLYAKOVA, V.:.; SAVITSKIY, Ye.M.

Phase diagram of the palladium - iridium system. Zhur.neorg.khim.
7 no.6:1471-1473 Je '62.   (MIRA 15:6)
                              (Palladium-iridium alloys)

BONDARENKO, Ivan Mikhaylovich, svinar'; POLYAKOVA, V., red.; YAKOVLEVA, Ye.,
tekhn.red.

[I'll fatten off 3000 swine in a year] Otkormliu za god 3000
svinei. Moskva, Moskovskii rabochii, 1960. 35 p.
(MIRA 13:11)

1. Sovkhoz "Odintsovo-Vakhromeyevo" (for Bondarenko).
(Swine--Feeding and feeds)

BLAGOVESHCHENSKIY, German Vikent'yevich, kand. sel'khoz. nauk; POLYAKOVA,V..,
red.; PAVLOVA, S., tekhn. red.

[Cultivated perennial pastures] Kul'turnoe dolgoletnee pastbishche.
Moskva, Mosk. rabochii, 1960. 53 p.   (MIRA 14:9)
                (Pastures and meadows)

DAVIDOV, Ruben Bogdasarovich; POLYAKOVA, V., red.; PAVLOVA, S., tekhn.red.

[How to get good milk] Kak poluchit' khoroshee moloko. Izd.2., perer. i dop. Moskva, Mosk.rabochii, 1960. 146 p.

(Milk)   (MIRA 14:1)

KRYLOVA, Vera Semenovna; POLYAKOVA, V., redaktor; IGNAT'YEVA, A.,
    tekhnicheskikh nauk

[Advice for milkmaids] Sovety doiarke. [Moskva] Moskovskii rabochii,
1956. 93 p.   (MLRA 10:3)
        (Milking)

VASIL'YEVA, Ye., red.; POLYAKOVA, V., red.; YAKOVLEVA, Ye., tekhn. red.

[Youth grows crops like these] Takie urozhai vyrastit molodezh'.
[Moskva] Mosk. rabochii, 1956. 116 p.   (MIRA 11:7)
                          (Youth)   (Agriculture)

SELIVANOV, Anton Zinov'yevich.; POLYAKOVA, V., red.; LIL'YE, A., tekhn. red.

[Protecting orchards from freezing] Zashchita sada ot zamorozkov.
[Moskva] Mosk. rabochii, 1958. 34 p.   (MIRA 11:11)
                        (Fruit culture)
                        (Frost protection)

POLYAKOVA, V.

New glues. Prom.koop. no.4:23 Ap '56.   (MIRA 9:8)

1. Starshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo instituta igrushki Rospromsoveta.
                            (Toys) (Glue)

PANYUKOV, Mikhail Ivanovich; POLYAKOVA, V., red.; PAVLOVA, S., tekhn.red.

[At the Glebovo Poultry Plant] Na Glebovskoi ptitsefabrike.
Moskva, Mosk.rabochii, 1962. 34 p.   (MIRA 15:5)

1. Direktor Glebovskoy ptitsefabriki (for Panyukov).
       (Glebovo (Moscow Province)---Poultry plants)

KUROCHKIN, Grigoriy Danilovich; MANAYEVA, O., redaktor; POLYAKOVA, V.
    redaktor; PECHNIKOVA,N., redaktor; GOLUBKOVA, G., tekhnicheskiy
    redaktor

[On the banks of the Ulug-Khem; notes of a geologist] Na bere-
gakh Ulug-Khema; zapiski geologa. (Moskva) Izd-vo TsK VLKSM
"Molodaia gvardiia," 1955. 134 p.   (MLRA 8:10)
        (Yenisey Valley--Description and travel)

BAYKOVA, Vera Vasil'yevna, nagrazhdena ordenom Trudovogo Krasnogo
    Znameni; POLYAKOVA, V., red.; PAVLOVA, S., tekhn. red.

[Irrigation with waste water] Stochnye vody - na polia.
Moskva, Mosk. rabochii, 1961. 31 p.   (MIRA 15:3)

1. Glavnyy agronom sovkhoza "Noginskiy", Moskovskoy oblasti
(for Baykova).
          (Noginsk District—Sewage irrigation)

NIKOLAYEVA, Yekaterina Ivanovna; POLYAKOVA, V., redaktor; LIL'YE, A.,
        tekhnicheskiy redaktor

[Thirty-one young from each sow] 31 porosenok ot kazhdoi svinomatki.
[Moskva] Moskovskii rabochii, 1956. 34 p.   (MIRA 9:8)
        (Swine breeding)

POLYAKOVA, V.A., kand. tekhn. nauk.

Laboratory testing of prof. F.V. Dorobyshev's stereograph. Geog.
i kart. no.10:33-36 O '57.   (MIRA 10:12)
                    (Photography--Apparatus and supplies)

POLYAKOVA, V.A., kand.tekhn.nauk

Accuracy of determining and maintaining the equality of
focal distances in projecting cameras of universal stereo-
graphic apparatus. Geod.i kart. no.5:27-32 My '60.
(MIRA 13:7)

(Aerial photogrammetry)

POLYAKOVA, V.A.

Processing the readings of the RGSTS radio geodetic stations on an electronic calculating machine. Geod.i kart. no.8:53-58 Ag '62.
(MIRA 15:8)

(Aerial photogrammetry)   (Electronic calculating machines)

S/006/60/000/05/
B007/B123

AUTHOR: Polyakova, V. A., Candidate of Technical Sciences

TITLE: On the Accuracy of Determining and Maintaining the Equality of Focal Lengths of Projection Cameras of Universal Stereo Instruments

PERIODICAL: Geodeziya i kartografiya, 1960, No. 5, pp. 27-32

TEXT: First, the accuracy of determining the focal length was investigated, and it is shown that the latter depends on the tolerable error of the determination of the point coordinates of the terrain-model. When evaluating aerophotographs of mountain regions the demands for the accuracy of the determination of the camera's focal length are increased accordingly. Secondly, the accuracy of maintaining the equality of the focal lengths of cameras is investigated. It is found by relations following from Fig. 1. Formula (9) is derived. It characterizes the distortion of elevation differences caused by an inequality of the focal length of instrumental cameras. Then formula (11) is derived. It shows that the most outward pair of stereoscopic pictures with the largest abscissas and ordinates

Card 1/3

On the Accuracy of Determining and Maintaining   S/006/60/000/05/ / 24
the Equality of Focal Lengths of Projection   B007/B123
Cameras of Universal Stereo Instruments

has the largest errors. Of the elements of mutual orientation only one
element τ will be distorted by not maintaining the equality of the focal
length. The vertical parallaxes thus created (due to the difference in fo
cal length) can be eliminated by introducing the quantity db_z. It is shown
that the dependency of the vertical parallax-distortions on the focal
length inequality has a linear character. For the error of determining the
focal length of the camera, formula (24) is derived. Based on it the
tolerances for the accuracy of maintaining the focal length equality on
various stereophotogrammetric instruments are calculated (Table). The tilt
of the model created by the introduction of db_z has the same character as
the b_z-tilt. Thus the errors (of the elevation differences) created by the
introduction of db_z are removed by the geodetic orientation of the single
pair of stereoscopic pictures. In such a way, while evaluating the single
picture pairs, the tolerances of maintaining the equality of the focal
lengths are decreased. The tolerable inclination angle of the model (and
therefore the error of determining the focal length of the camera, too)
will depend in this case on the necessary accuracy of the determination
the x, y coordinates. Finally, it is shown that for the evaluation of the

Card 2/3

On the Accuracy of Determining and Maintaining
the Equality of Focal Lengths of Projection
Cameras of Universal Stereo Instruments

S/006/60/000/05/07/024
B007/B123

pair of stereoscopic pictures according to the method of setting on points
of control, the demands discussed in this paper and shown in the Table
mentioned above, must be set up for the focal length equality of cameras.
There are 2 figures and 1 table.

Card 3/3

NEVOLIN, F.V., kand. tekhn. nauk; TIPISEVA, T.G., inzh.; POLYAKOVA, V.A.,
inzh.; SEMENOVA, A.M., inzh.

Surface-active characteristics and detergency of some
polyethylene esters of nonyl phenols. Masl.-zhir. prom. 28
no.10:22-26 O '62.   (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.

POLYAKOVA, V.A.

Programming problems in determining elements of reciprocal
orientation. Geod. i kart; no.5:46-50 My '63.
(MIRA 16:7)

(Photographic interpretation)
(Electronic computers)

BARANSKIY, A.D.; POLYAKOVA, V.A.; ODINTSEV, N.F.

Application of the method of coal separation into fractions for
the study of Irkutsk coals rich in sulfur. Izv. Fiz.-khim.
nauch.-issl. inst. Irk. un. 5 no.1:13-27 '61.   (MIRA 16:8)

(Irkutsk Basin—Coal—Analysis)
(Sulfur compounds)

NEVOLIN, F.V., kand.tekhn.nauk; TIPISEVA, T.G., inzh.; POLYAKOVA, V.A., inzh.;
SEMENOVA, A.M., inzh.; NIKISHIN, G.I., kand.khim.nauk;
PETROV, A.D.

Surface-active properties and washability of solutions
of sodium salts of the normal and branched fatty acids.
Masl.-zhir.prom. 28 no.7:15-22 Jl '62.   (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov
(for Nevolin, Tipiseva, Polyakova, Semenova). 2. Institut
organicheskoy khimii AN SSSR (for Nikishin, Petrov).
3. Chlen-korrespondent AN SSSR (for Petrov).
                    (Acids, Fatty)
                  (Surface-active agents)

NEVOLIN, F.V., kand.tekhn.nauk; TIPISEVA, T.G., inzh.; POLYAKOVA, V.A., inzh.; SEMENOVA, A.M., inzh.

Surface-active properties and detergency of polyethylene esters of polypropylene glycols. Masl.-zhir.prom. 29 no.7:23-26 Jl '63.
(MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Propylene glycol) (Cleaning compounds)

POLYAKOVA, V. A.

USSR (600)

Chemistry - Study and Teaching

Relation of teaching chemistry to socialistic industrial development. Khim.
v shkole no. 2, 1952.

POLYAKOVA, V.A., (Moskva).

"Production of acetic acid" as a class subject. Khim.v shkole
11 no.5:37-40 S-O '56.   (MLRA 9:11)
        (Acetic acid--Study and teaching)

POLYAKOVA, V.A.

"Callisthenics at the factory." Zdorov'e 1 no.4:32 Ap '55.

(MLRA 9:3)

(CALLISTHENICS) (BABAEVA,E.A.) (INDUSTIAL HYGIENE)

SILVYANCHUK, S.D., inzhener distantsii; POLYAKOVA, V.I., tekhnik
(stantsiya Idritsa).

Plane table for calculating curves. Put' i put.khoz.no.12:28-29
D '57.
(MIRA 10:12)

1. Idritskaya distantsiya puti Kalininskoy dorogi.
(Railroads--Curves and turnouts)

POLYAKOVA, V.I.

Manufacture of rubber toys. Det. khor. igr. no.1:
58-62 '55.   (MLRA 10:2)

1. Starshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo
instituta igrushki.
                    (Toys)

POLYAKOVA, V.I.; OKUNEV,, A.L.; KUDYUKILA, L.N.; BIRLYANT, I.Ya.,
    red.

[Painting and decoration of toys made from paper-wood
pulp, wood, metal, plastics and other materials] Okraska
i rospis' igrushek iz bumazhno-drevesnykh mass, dereva,
metalla, plastmass i drugikh materialov. Moskva, Gosmest-
promizdat, 1962. 2 v.   (MIRA 17:4)

POLYAKOVA, V.I., starshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo
Instituta igrushki.

Use of pressed granulated materials. Det. khor. igr. no.1:
56-58 '55.   (MLRA 10:2)

(Toys)

POLYAKOVA, V.I.; KUZNETSOVA, I.B.; TATEVOS'YAN, G.O., nauchnyy red.;
TISHCHENKO, N.I., red.; TRUSOV, N.S., tekhn. red.

[Manufacture of toys from plastics]Proizvodstvo igrushek iz
plasticheskikh mass. Leningrad, Gosmestpromizdat, 1962. 318 p.
(MIRA 16:2)

(Plastics)   (Toys)

GERSHKOVICH, R.S.; MARTYNYUK, Yu.V., kand. med. nauk; POLYAKOVA, V.M.

Use of human citrated plasma in chronic tonsillitis. Vestn.
otorinolaring. 25 no.3:107 '63   (MIRA 17:1)

1. Iz L'vovskogo meditsinskogo instituta (rukovoditel' raboty
zasluzhennyy deyatel' nauki prof. S.V. Mikhaylovskiy).

1. DEMENEV, N. V., SHAKOVA, A. K., POLYAKOVA, V. M.

2. USSR (600)

4. Sulfates

7. Reaction of titanium sulfate with potassium sulfate.
   Dokl. AN SSSR 87 No. 5, 1952

9. **Monthly Lists of Russian Accessions**, Library of Congress, **March** 1953, Unclassified.

POLYAKOVA, V. M.

USSR/Chemistry - Titanium

"The Structure of the Double Sulfate of Titanium and Potassium," I. V. Demenev, N. N. Buinov and V. M. Polyakova

"Dan SSSR" Vol 87, No 6, pp 965-966, 1952

The structure of $2K_2SO_4 \cdot 2TiOSO_4 \cdot 5H_2O$ was investigated with an electron miscroscope. It was found that it consists of crystals having a size of 10-30 Å. These crystals form aggregates. Submitted by Acad I. P. Bardin 23 Oct 52

PA 240T1

YEREMENKO, V.N.   POLYAKOVA, V.M.   GOLUBENKO, Z.P.

"The Interaction of Titanium Carbide With Nickel", from the monograph
Questions on Power Metallurgy and the Strength of Materials, No III,
Institute of Metalloceramics and Special Alloys, Academy of Sciences
Ukrainian SSR, Kiev, 1956, 145 pages

Sum. 1287

POLYANCVA, V. M.

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry.   B-8
            Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour   : Referat Zhur - Khimiya, No 3, 1957, 7478

Author   : Yeremenko, V.N., Polyakova, V.M., and Golubenko, Z.P.
Inst   : Academy of Sciences USSR
Title   : Reaction of Titanium Carbide with Nickel

Orig Pub   : Sb vopr. poroshkovoy metallurgii i prochnosti materialov
               [Symposium on Questions on Powder Metallurgy and the
               Strength of Materials], Vol 3, Kiev, AN SSSR, 1956,
               62-72

Abstract   : Thermic analysis, metallographic, and radiographic me-
               thods were used in establishing the equilibrium diagram
               for the system Ni-TiC (I) in the nickel-rich region.
               The alloys of Ni with I give cooling curves of the eute-
               ctic type (E ⁼ 1280° at 9.3 percent I). The solubility
               of I in Ni in the solid state was determined. At the
               eutectic temperature of 1280° the solubility attains 6.2

Card 1/2   - 105 -

~ 16.3500

16(1)

SOV/20-129-6-9/69

AUTHOR: Polyakova, V.M.

TITLE: Stabilization of the Solution to the Heat Conductance Equation

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1230-1233 (USSR)

ABSTRACT: Let the equation

$$(1) \qquad \frac{\partial u}{\partial t} = \frac{\partial}{\partial x}\left(a(t,x)\, \frac{\partial u}{\partial x} \right)$$

be given, where $a(t,x)$ is a continuously differentiable function and

$$(2) \qquad 0 < a_0 \leq a(t,x) \leq A_0 \quad .$$

The author considers bounded solutions

$$(3) \qquad |u(t,x)| < K \quad \text{for} \quad t > 0 \quad , \qquad -\infty < x < \infty \quad .$$

Theorem : Let $u(t,x)$ be solution of (1). If

Card 1/2

68146

Stabilization of the Solution to the Heat Conductance   SOV/20-129-6-9/69
Equation

$$\lim_{K,N\to\infty} \frac{1}{K + N} \int_{-K}^{N} u(0,x)dx = u_0$$

then $\lim u(t,x) = u_0$ is uniform with respect to x on every
finite interval of the x-axis.
The proof is based on a lemma of Ye.M. Landis /¯Ref 2_7 , on
estimations of S.N. Bernshteyn /¯Ref 3_7 and on two further
lemmata given without proof.
The author mentions S.D. Eydel'man.
There are 3 Soviet references.

PRESENTED: July 20, 1959, by I.G. Petrovskiy, Academician
SUBMITTED: July 18, 1959

Card 2/2

16.3500

AUTHOR: Polya... , M.

TITLE: Level li.... of a solution to an elliptic equa

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 6, 19
              1259-1262

TEXT: In the stripe $K_h = \{0 \leq x \leq \infty, -h \leq y \leq h\}$, $0 < h < 1$
the following equation is considered:

$$A(x,y) \frac{\partial^2 u}{\partial x^2} + 2B(x,y) \frac{\partial^2 u}{\partial x \partial y} + C(x,y) \frac{\partial^2 u}{\partial y^2} + D(x,y) \frac{\partial u}{\partial x} +$$

$$+ E(x,y) \frac{\partial u}{\partial y} + F(x,y) u = 0 \qquad (1)$$

where A, B, C have continuous derivatives of second order, D and E
are continuously differentiable and together with the derivatives
having the modulus ≤ 1, while $-1 < F \leq 0$. Let (1) be elliptic.
Let $u(x,y)$ be a solution of (1) and $|u(x,y)| < 1$ in K_h. Let Ω be the
level set $u(x,y) = 0$. A component L of the set Ω is called regular if
it is starting on the left side of K_h and passing to infinity without
Card 1/3

29810
S/020/61/140/006/004/030
Level lines of a solution to an . . .   C111/C444

touching the lower or upper side. Let L_1 and L_2 be regular components of Ω, and L_1 lying higher than L_2. Let $y_1(x_o)$ and $y_2(x_o)$ be the upper point of intersection of L_1 and the lower point of intersection of L_2 with the straight line $x = x_o$. Let $\varphi(x_o) = y_1(x_o) - y_2(x_o)$.

Theorem: Let L_1, L_2 be regular components. Then

$$\lim_{x \to \infty} \left[\ln \frac{1}{\varphi(x)} : x \right] < \infty . \qquad (3)$$

The indirect proof of the theorem relies on two lemmata which are analogous to the lemmata 1.6.1 and 1.1.1 of Ref. 1 (Ye. M. Laudis, UMN, 14, v. 1(85)(1959)).

Conclusion: Let the equation $\Delta u = 0$ be given. Let $|u| < 1$ in the angle φ (or in the part of the angle $\varphi : r > r_o$). The velocity by which the distance between two lines, completely lying in φ and being of the same level set $u = $ const., decreases is in the most extreme

Card 2/3

29810
S/020/61/140/006/004/030
Level lines of a solution to an . . .   C111/C444

case equal to

$$\varsigma(r) = \frac{M}{r^{\alpha}} \quad , \quad \alpha > 0.$$

The author mentions A. S. Kronrod.
There are 2 Soviet-bloc references.

PRESENTED: May 25, 1961, by J. G. Petrovskiy, Academician

SUBMITTED: March 14, 1961

Card 3/3

VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.], kand. khim. nauk; POLYAKOVA, V.M.

New analytical method for determining the polydispersion composition of poly-ε-caprolactam. Khim. prom. [Ukr.] no.3:76-78 Jl-S '64.

(MIRA 17:12)

POLYAKOVA, V.M.; VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.]

Variation of the constant b of Tung's equation in the process
of polymerization and additional treatment of poly-ξ-caproamide.
Dop. AN URSR no.11:1484-1486 '65.

(MIRA 18:12)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

BARTENEVA, O.D., kand. fiz.-matem. nauk; POLYAKOVA, Ye.A., kand. fiz.-matem.
    nauk

    Light equivalent of radiation. Meteor. i gidrol. no.2:19-22 F '66.
                                                        (MIRA 19:1)
    1. Glavnaya geofizicheskaya observatoriya. Submitted May 25, 1965.

VOYTSEKHOVSKIY, R.V.; POLYAKOVA, V.M.; GORSHECHNIKOVA, O.V.

Changes observed in the molecular weight distribution of poly-ξ-caproamide during γ-irradiation. Ukr. khim. zhur. 31 no.6:600-602 '65.

(MIRA 18:7)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

L 54504-65   EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(j)/EWA(h)/EWA(c)/EWA(1)
Pc-4/Pr-4/Ps-4/Peb/Pu-4   WW/GG/EW

AUTHOR: Voytsekhovskiy, R. V.; Polyakova, V. M.; Gorshechnikova, O. V.

TITLE: Changes in molecular weight distribution in poly-ε-caproamide after
γ-radiation

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 6, 1965, 600-602

TOPIC TAGS: polycaproamide, polymerization, gamma ray, molecular weight

ABSTRACT: Industrial samples of poly-ε-caproamides were subjected to irradiation
from a Co^{60} γ-ray source in sealed, evacuated ampules. The dose intensity was 280
rad/min. The study included measurements of thermomechanical properties for the
compression of samples at constant load, change in viscosity and Huggins constants.
These data indicate that cross-linking is the principal process. This is also in-
dicated by the reduction in solubility of poly-ε-caproamide in concentrated sul-
furic acid. The molecular weight distribution was measured by an improved turbidi-
metric method. Calibration graphs plotted from solubility measurements of homo-
geneous fractions were used in making the calculations. Five normal hydrochloric

Card 1/2

L 54504-65   2

ACCESSION NR: AP5014309

acid was used as a solvent and a 3.8 N aqueous solution of $(NH_4)_2SO_4$ as the pre-
cipitant. The results of measurements indicate that the increase in polydispersity
of samples is due to the occurrence of higher as well as of lower polymer fractions.
The straight line for Tung's distribution function breaks up into three segments of
different slopes. This indicates simultaneous cross-linking and destruction of
macromolecules of poly-ε-caproamide during γ-radiation. Thermochemical measure-
ments were made by Engineer N. K. Ivchenko. Orig. art. has: 2 figures and 2
tables.

ASSOCIATION: Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR
(Chemical Institute of Macromolecular Compounds, AN UkrSSR)

SUBMITTED: 15Feb64   ENCL: 00   SUB CODE: OC

                                       OTHER: 005
NO REF SOV: 002

Card 2/2

BAMBUROV, B.G.; DEMENEV, N.V.; POLYAKOVA, V.M.

Studying the solubility in the system $KF - ZrF_4 - H_2O$ at $20°C$.
Izv. Sib. otd. AN SSSR no.5:70-75 '62.   (MIRA 18:2)

1. Ural'skiy filial AN SSSR, Sverdlovsk.

ACCESSION NR: AT4042095   S/2768/63/000/007/0007/0011

AUTHOR: Sharova, A. K.; Polyakova, V. M.; Bamburov, V. G.; Chernyavskaya, Ye. I.

TITLE: Separation of titanium from niobium in mixed solutions of hydrofluoric and sulfuric acids

SOURCE: AN SSSR. Ural'skiy filial. Institut khimii. Trudy*, no. 7, 1963. Khimiya i tekhnologiya redkikh metallov (Chemistry and technology of rare metals), 7-11

TOPIC TAGS: niobium, titanium, niobium purification, titanium purification, silicofluoride method

ABSTRACT: The authors studied the mineral acid extraction of agglomerates obtained during enrichment of complex ores by sintering with KCl plus K2SiF6 or Na_2SiF_6 as well as the separation of titanium from niobium in the resulting hydrofluoric and sulfuric acid solutions. The agglomerate samples were treated at 70 and 80C with 3.5, 5.0, 7.0 and 10% H_2SO_4, 1.0, 2.0, 2.5 and 5.0% HF, and their combinations, with or without addition of KCl. Treatment for 1 hour at 80-90C with a mixture of 1% HF and 5% H_2SO_4 was found to be expedient, yielding up to 88% and 81% of the total Nb_2O_5 and TiO_2 (plus ZrO_2), respectively. Effective separa-

Card 1/2

ACCESSION NR: AT4042095

tion of titanium from niobium in these solutions was achieved by adding KCl to the solution
(up to 40-60 g/L), cooling from 70 to 15C and allowing the precipitate to settle for 1 hr.;
94.3-95.6% of the total titanium then precipitated in the form of potassium fluorotitanate.
Org. art has: 5 tables.

ASSOCIATION: Institut khimii, Ural'skiy filial AN SSSR (Chemical Institute, Ural Branch)
     AN SSSR)

SUBMITTED: 00   ENCL: 00

SUB CODE: IC   NO REF SOV: 001   OTHER: 000

Card 2/2

POLYAKOVA, V.M.; FAYNERMAN, A.Ye.; VOYTSEKHOVSKIY, R.V.

Use of diffusion salting-out for evaluating the molecular
weight distribution of poly- ε -caproamide. Vysokom. soed
6 no.3:432-433 Mr'64.   (MIRA 17:5)

1. Institut khimii polimerov i monomerov AN UkrSSR.

POLYAKOVA, V.M.

Some geochemical characteristics of phosphorites and enclosing
rocks in northern Kazakhstan. Min.syr'e no.7:158-166 '63.
(MIRA 16:9)

(Kazakhstan—Phosphorite)
(Kazakhstan—Ore deposits)

S/828/62/000/000/010/017
E039/E420

AUTHORS: Sharova, A.K., Demenev, N.V., Polyakova, V.M.,
             Milyutina, M.I.

TITLE: The physico-chemical basis of methods of separating
             titanium and the earth acids

SOURCE: Razdeleniye blizkikh po svoystvam redkikh metallov.
             Mezhvuz. konfer. po metodam razdel. blizkikh po svoyst.
             red. metallov. Moscow, Metallurgizdat, 1962, 116-123

TEXT: This work was undertaken because the properties of the
fluoride complexes of Ti and Nb and their solubilities in various
mineral acids are of importance in the development of separation
processes.   It is shown that the optimum conditions for the
separation of Ti and Nb from H_2SO_4 solution are: 10% H_2SO_4,
1% HF and 10% KCl.   From a study of the interaction of potassium
salts with Te and Nb in H_2SO_4 a method is developed for separating
these elements from medium and strong acid solutions.   This
separation depends on the principal valency change in Ti.   When
a potassium salt is introduced in H_2SO_4 solution containing Ti
(180 to 250 g/litre H_2SO_4) the double sulphate of Ti and K is

Card 1/2

S/200/62/000/004/002/002
D204/D307

AUTHORS: Bamburov, V.G., Demenev, N.V., and Polyakova, V.M.

TITLE: Investigation of the ternary system TiF_4 - KF - H_2O

PERIODICAL: Akademiya nauk SSSR. Sibirskoye otdeleniye, Izvestiya,
             no. 4, 1962, 73 - 80

TEXT: The above system was investigated, at $20 \pm 0.1°C$, since a
study of the K fluorotitanates is important in the technological se-
paration of Ti, Nb and Zr and in the processing of lanthanon ore.
Water and solid KF were added to a fixed amount of aqueous TiF_4 so
that the TiF_4 : KF ratio varied from 0.1 to 9 by weight, and the
system was allowed to stand for 0.5 - 1 hr. The filtrate was then
analyzed chemically and the solid phases by physico-chemical methods.
It was found that $K_2TiF_6 \cdot H_2O$ crystallized in the cubic system from
solutions containing >3 % KF and also, in irregular plates, when
the TiF_4 : KF ratio was 1.55 - 2.42. Monoclinic irregular lamellas
of $K_2TiF_6 \cdot 2H_2O$ were formed from solutions containing up to 3 % KF
Card 1/2

Investigation of the ternary system ...   S/200/62/000/004/002/002
D204/D307

and mixtures equivalent to TiF_4 - 2KF gave $2K_2TiF_6 \cdot 3H_2O$ in the form of hexagonal prisms. Increasing TiF_4 : KF to > 2.5 yielded K_2TiF_6. The solubilities of $K_2TiF_6 \cdot H_2O$, $2K_2TiF_6 \cdot 3H_2O$ and $K_2TiF_6 \cdot 2H_2O$ in water at 20°C were determined as 1.19, 1.21 and 1.25 % respectively. The hydrated complexes were then heated from 20° to 720°C at a rate $> 8°$ per minute to determine their thermal stabilities. It was found that above 420°C the hydrates underwent hydrolysis and transformed into cubic K_2TiOF_4. There are 5 figures and 2 tables.

ASSOCIATION: UFAN SSSR (UFAS USSR)

SUBMITTED: March 15, 1961

Card 2/2

LEBEDEV, V.V.; POLYAKOVA, V.N.

Production of synthesis gas from methane on metallic oxides. Trudy
IGI 16:46-50 '61.   (MIRA 16:7)
        (Methane) (Gas as fuel) (Metallic oxides)

LARINA, V.A.; BARANSKIY, A.D.; POLYAKOVA, V.N.; ODINETS, N.F.

Characteristics of the behavior of the sulfur of Irkutsk coals
during their separation in heavy liquids. Khim. i tekh.topl. i masel
3 no.11:36-43 N '58.   (MIRA 11:11)

1. Irkutskiy gosudarstvennyy universitet.
        (Irkutsk Valley--Coal)   (Sulfur--Analysis)

SOV/65-58-11-9/15

AUTHORS: Larina. V. A; Baranskiy, A. D; Polyakova, V. N. and
Odintsova N. F.

TITLE: Characteristics of Behaviour of Sulphur of Irkutsk Coals
During Their Separation in Heavy Liquids (Osobennosti
povedeniya sery Irkutskikh ugley pri razdelenii ikh v
tyazhelykh zhidkostyakh)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 11,
pp 36 - 43 (USSR)

ABSTRACT: I. I. Ammosov (Ref. 3) developed a method for determining
the properties of sulphur in sulphur-containing Irkutsk
coals. The authors investigated coals from Vladimir.
The sulphur content of these coals is compared with those
from Sablinskoye i Polyarshaya deposits; the latter contain a
very large quantity of organic sulphur (Table 1). The
authors also determined the content of various types of
sulphur in semi-cokes and in hard residues (Table 2).
Finely-pulverised samples of the coals were separated in-
to fractions in a mixture of carbon tetrachloride and ben-
zene. The separation was accelerated by centrifuging the
samples. The molecular weights of the liquids for sepa-
Card 1/4 rating the coal Grade D were selected as follows: 1.40,

Characteristics of Behaviour of Sulphur of Irkutsk Coals During
Their Separation in Heavy Liquids

1.35, 1.30, 1.28, 1.26, 1.25, 1.24. In this way, for
each type of coal a number of fractions with different
quantitative yields were prepared. Percentage yields
of these fractions are given in Table 4, and results of
the separations in Fig.1. The area of each figure
represents the total of the yields of all fractions.
Reasons for the variations in the yields of the fractions
are stated (when taking into account their equal degree
of metamorphosis and identical petrographic structure)
Further investigations concern fractions with anomalous
content of mineral and organic sulphur. The different
forms of sulphur and ash were determined in all fractions
(Table 4). Results were given in the form of a graph
(Fig.2). The fraction 1.40 - 1.25 and 1.24 of Vladimir'
coal were of greatest interest because in these frac-
tions the ratio of the mineral to the organic sulphur
differed to a large degree from the ratio in the starting
m a t erial. Results obtained, during the semi-coking
and coking of these fractions, and when analysing the
sulphur content in the solid products, are given in

Card 2/4   Table 5. The organic sulphur is separated completely

SOV/65-58-11-9/15

Characteristics of Behaviour of Sulphur of Irkutsk Coals During
Their Separation in Heavy Liquids

when there is either a very small quantity or no mineral
sulphur in the coal (fractions 1.25 - 1.24 and 1.26).
Separation of organic sulphur in the presence of large
quantities of mineral sulphur is very difficult. Similar
observations were made by E. S. Krym et al. (Ref.7)
who tested coals from the Donets basin, and by L. P.
Ukhov (Ref. 8) during the semi-coking of Kiselevskiye coals.
The content of organic sulphur increases slightly in
semi-cokes. This can be explained by the sharp decrease
in the mineral sulphur content and the formation of a
considerable quantity of decomposition products of
mineral sulphur compounds. This could not be observed
during the semi-coking of the 1.40 fraction of Delyurskiy
coal because these contain a much smaller quantity of
mineral sulphur. It was also found that the organic sul-

Card 3/4