POLTORATSKIY, V.G.

513   Kak posadit' kartofel' kvadratno-gnezdovym sposobom.
          Frunze, Kirgizgosizdat, 1954. 24s. s 'ill. 20sm. 5.000
          ekz. 30 K, -/54-54624/p   635.21: 631.531.24 (584.8)

          SO: Knizhnaya Letopis, Vol. 1, 1955

GORBOVSKAYA, T.G.; MAKOGONCHUK, P.A.; POLTORATSKIY, V.G.

Characteristics of bacterial flora in postgonorrheal diseases of urogenital organs in men. Vest.ven. i derm. 30 no.2:35-37 Mr-Ap '56.
(MLRA 9:7)

1. Iz bakteriologicheskoy laboratorii (zav.-kandidat meditsinskikh nauk T.G.Gorbovskaya) Kiyevskogo naucno-issledovatel'skogo dermato-venerologicheskogo instituta (dir. G.B.Koryakin) i gonorroynogo otdela Kiyevskogo ogorodskogo vendispansera (glavnyy vrach A.S. Ivanov)

(UROGENITAL SYSTEM, dis.
     postgonorrheal in men, bacterial flora in)
(GONORRHEA
     postgonorrheal dis. of urogenital system in men
     bacterial flora in)

GORBOVSKAYA, T.G.; MAKOGONCHUK, P.A.; POLTORATSKIY, V.G.

Characteristics of bacterial flora in postgonorrheal diseases of
urogenital organs in men. Vest.ven. i derm. 30 no.2:35-37 Mr-Ap '56.

(MIRA 9:7)

1. Iz bakteriologicheskoy laboratorii (zav.-kandidat meditsinskikh
nauk T.G.Gorbovskaya) Kiyevskogo naucno-issledovatel'skogo dermato-
venerologicheskogo instituta (dir. G.B.Koryakin) i gonorroynogo
otdela Kiyevskogo ogorodskogo vendispansera (glavnyy vrach A.S.
Ivanov)

(UROGENITAL SYSTEM, dis.
    postgonorrheal in men, bacterial flora in)
(GONORRHEA
    postgonorrheal dis. of urogenital system in men
    bacterial flora in)

ACCESSION NR: AP4022711   S/0020/64/155/002/0306/0308

AUTHOR: Arifov, U. A. (Academician); Ayukhanov, A. Kh.; Sustrov, V. A.; Khasanov, R. M.; Poltoratskiy, V. I.

TITLE: Cathode sputtering of tungsten by potassium ions

SOURCE: AN SSSR. Doklady*, v. 155, no. 2, 1964, 306-308

TOPIC TAGS: cathode sputtering, tungsten sputtering, tungsten surface purification, tungsten, potassium ion, $_{74}W^{184}$, potassium

ABSTRACT: The authors investigated the sputtering of tungsten in a form of chemical compounds and also studied the conditions for obtaining a pure tungsten surface. Radioactive tracers were used for determination of the amount of sputtered material. Polycrystalline tungsten targets with induced activity. ($_{74}W^{184}$) were bombarded with potassium ions. The sensitivity of detection was 10^{-9} gm. The experimental details were given in author's paper (Iz. AN UzSSR, No. 2, 1963). It was found, by using retarding or accelerating potentials, that

Card 1/2

POLTORATSKIY, V.T., nauchnyy sotrudnik vetroenergicheskoy gruppy; PROTOPOPOV, B.A., nauchnyy sotrudnik vetroenergeticheskoy gruppy.

Conference on wind power utilization. Elektrichestvo no.5:94 My '53.

(MIRA 6:6)

1. Energeticheskiy institut Akademii nauk SSSR.   (Wind power)

This first coordination conference on problems of wind-power utilization in USSR national economy, held 6-9 Jan 53, heard papers from affiliate of Central Aero-Hydrodynamics Inst; Power Engineering Inst of AS USSR, Kazakh SSR, and Azerbaydzhan SSR; and All-Union Inst of Electrification of Agriculture. Use of wind electrification in sparse-ly populated semidesert regions is mentioned.   258T43

POLTORATSKIY, Viktor Vasil'yevich; CHERNOV, A.A., red.; ROZEN, E.A.,
tekhn.red.

[Nest of the crystal goose; a story about the past, present,
and future of the Russian glass city, the remarkable artisans
and artists of Russian cut glass] Gnezdo khrustal'nogo gusia;
rasskaz o proshlom, nastoiashchem i budushchem rossiiskogo
steklograda, o zamechatel'nykh masterakh i khudozhnikakh rus-
skogo khrustalia. Moskva, Sovetskaia Rossiia, 1959. 70 p.
(MIRA 13:5)

(Gus'-Khrustal'nyy--Glass manufacture)

POLICHATZKAJA, O.
    A. STROMBRG, ZhOKh, 1935, 5, 189-196

POLTORATZKAYA, O.
    S. KARPACHEV, ZhFKh, 5, 793-801(1934)

POLTORATZKAYA, O. I.
    I. G. SHCHERBAKOV, ZhKh Prom, 7, nos. 31-3, 1900-4(1930)

POLTORYGIN, V.K.; SOSKIN, A., red.; SERBIN, Ye., tekhn. red.

[Economics of construction; a visual aid] Ekonomika
stroitel'stva; nagliadnoe posobie. Moskva, Politizdat,
1963. 79 p.   (MIRA 17:2)

POLTORYGIN, Viktor Kuz'mich

[Economics of industrial enterprises; visual aids] Eko-
nomika promyshlennykh predpriiatii; nagliadnye posobiia.
Izd. 2., dop. Moskva, Gospolitizdat, 1963. 20 plates
    ["Methodological note for the album] "Metodicheskaia
zapiska k al'bomu." 4 p.   (MIRA 17:4)

POLTORYGIN, Viktor Kuz'mich; KOKOSHKO, A.G., red.; NAUMOV, K.M., tekhn.
      red.

    [Building materials production base] Proizvodstvennaia baza
    stroitel'stva. Moskva, Izd-vo VPSh i AON pri TsK KPSS,
    1963. 81 p.   (MIRA 16:8)
        (Building materials industry)

POLTORYGIN, Viktor Kuz'mich; BOBYLEVA, L.V., red.; GERASIMOVA, Ye.S.,
tekhn. red.

[Capital assets and production capacities in construction
and their utilization]Osnovnye fondy i proizvodstvennye moshch-
nosti v stroitel'stve i ikh obrazovanie. Moskva, Ekonomizdat,
1962. 99 p.   (MIRA 15:10)
                (Construction industry)

POLTORYGIN, Viktor Kuz'mich; SOSKIN, A., red.

[Industries in the U.S.S.R. from 1913 to 1965] Promyshlennost'
SSSR 1913-1965 gg. Moskva, Gospolitizdat, 1961. 46 p.

(MIRA 14:6)

(Industrial statistics)

KUZEBNYY, V.S.; BEDAREV, B.P.; POLTORYKHIN, P.I.

Types of fold structures in the southwestern wing of the Aleysk anticlinorium in the Rudnyy Altai. Geol. i geofiz. no.2:86-96 '63. (MIRA 16:5)

1. Gornometallurgicheskiy nauchno-issledovatel'skiy institut, Ust'-Kamenogorsk.
(Altai Mountains—Folds (Geology))

KAPLYANSKIY, Aleksandr Yevseyevich, doktor tekhn. nauk, prof.; LYSENKO,
    Aleksey Petrovich, kand. tekhn. nauk, dotsent; POLTOVSKIY, Lev
    Solomonovich, kand. tekhn. nauk, dotsent; KAZARNOVSKIY, D.M.,
    red.; SOBOLEVA, Ye.M., tekhn. red.

[Theoretical fundamentals of elctrical engineering]Teoreticheskie
osnovy elektrotekhniki. Moskva, Gos. energ. izd-vo, 1961. 526 p.
                                              (MIRA 14:10)
                    (Electric engineering)

POLTOWICZ, Stefan

POLAND

POLTOWICZ, Stefan

  Petroleum Explorations Enterprise (Przedsiebiorstwo
  Poszukiwan Naftowych), Crakow

  Warsaw, Kwartalnik geologiczny, No 3, 1963, pp 431-37.

  "Salt-bearing Formations in the Bore-hole Pogorska Wola,
  Near Tarnow".

POLTOWICZ, Stefan

The importance of recognizing the age of tectonics for the documentation of hard coal deposits. Przegl geol 9 no.6:307-313 Je '61.

1. Akademia Gorniczo-Hutnicza.

(Coal mines and mining)   (Geology)

POLTSENKO, A.

11042

FINLAND/Wood Products 4412.   Aug 1947
        Foreign Trade 4704.0101

"Finland's Exports in 1946," A. Poltsenko, 3 pp

"Vnesh Torg" Vol VII, No 8

Some reasons for increase in Finland's trade are pre-
sented. Percentage of production increases in speci-
fied products such as cellulose, newsprint, plywood
and lumber products also noted. Charts concerning
values and amounts of commodities exported, changes
in importance of commodities exported, price indexes
and distribution of Finland's exports among the pri-
mary purchasing countries for 1938 and 1946 are in-
cluded.

FIB   11042

SOBOLEVA, O. N.; POLTSOVA, A. I.

Preparation of liquid extracts by repercolation. Apt.delo 4 no.1:
8-11 Ja-F '55
(MLRA 8:4)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo aptechnogo insti-
tuta Ministerstva zdravookhraneniya SSSR.
    (PLANTS,
        extracts, counterflow technic)

TOLTULNITSKIY, T. M.

Dandelions; Weeds; Kok-Saghyz

Origin of non-rubber-bearing dandelions as
weeds in the kok-saghyz. Agrobiologiia
no. 2:45-54 Mr-Ap '52.
Kandidat Sel'skokhozyaystvennykh Nauk
Kafedra Botaniki Cherkasskogo Pedagogicheskogo
Institut USSR

Monthly List of Russian Accessions, Library of
Congress, July 1952. Unclassified.

Poltyryev, S.

USSR/Human and Animal Physiology - Digestion.   V-7

Abs Jour   : Ref Zhur - Biol., No 1, 1958, 4074

Author   : A. Sharygin, S. Poltyryev

Inst   : Ivanovsk Agricultural Institute.

Title   : The Mechanism of the Development of Abnormalities in the
              Gastric Functions and That of Their Restoration in Experi-
              mental Pulmonary and Pleural Pathology.

Orig Pub   : Sb. nauch. tr. Ivanovsk. s.-kh. in-ta, 1956, issue 13,
              188-190

Abstract   : When an $AgNO_3$ solution was injected intrapleurally after
              a preliminary novocaine blockade of the pleural interore-
              ceptors, or after a neck vagosympathetic blockade (Vish-
              nyevskiy's method), a relatively weak inflammator pro-
              cess was observed. Abnormalities of the secretory-excre-
              tory gastric activity and of the nitrogen metabolism in

Card 1/2

POLTYREV, S.

"Role des portions inferieures du colon dans la regulation de l'activite gastrique."
Poltyrev, S., (p. 81)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 18, No. 1.

POLTYREV, S. S.

Poltyrev, S. S. - "Viscero-visceral reflexes in animals," Sbornik
nauch. trudov Ivan. s.-kh. in-ta, Issue 10, Part 2, 1948,
p. 3-157 -- Bibliog: p. 155-57

SO: U-3566 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

POLTYREV, S. S.

POLTYREV, S. S. Professor. The teaching concerning the viscerovosceral reflexes and its significance in clinic.

Source: Veterinariya; 25; 9; September 1948; uncl

TABCON

1. POLTYREV, S. S.

2. USSR (600)

4. Brain

7. Damage of vegetative function in experimental internal diseases as a consequence of cortical disorders. Arkhiv pat. 14, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May _____1953. Unclassified.

POLTAREV, S. S.

7826. Ispol'zovaniye ucheniya I. P. Pavlova v zhivotnovodstve. Ivanovo, Kn.
izd., 1954. 96 s. s ill.; 1 L. Portr. 20 sm. 7.000 Ekz. 1 R. 25K. - (55-3672)P
636 + 619 : 612

SO: Kinizhnaya Letopis', Vol. 7, 1955

POLTYREV, S.S., professor.

Reflex disturbance of the functions of the internal organs.
Veterinarya 33 no.1:43-49 Ja '56.   (MLRA 9:4)

1.Ivanovskiy sel'skokhozyaystvennyy institut.
(PATHOLOGY, VETERINARY) (DIGESTIVE ORGANS--DISEASES)

POLTYREV, S.S., professor.

Physiological principles for increasing the productivity of agricultural
animals. Priroda 45 no.3:45-51 Mr '56.   (MIRA 9:7)
(Feeding and feeding stuffs) (Stock and stock breeding)

POLTYREV, S.S., prof.

Results of the organization of scientific work and training
of scientific personnel in the Pathophysiological Department.
Biul. Uch. med. sov. 3 no.3:28-31 My-Je '62.

(MIRA 17:10)

KULIKOVA, Ya. I., assistent; POLTYREV, S.S., prof., nauchnyy konsul'tant;
    KONOKOTINA, S.A., doktor med. nauk. rukovoditel' raboty.

Some clinical and laboratory data in chronic pneumonia.Sbor. nauch.
trud. Ivan. gos. med. inst. no. 26:28-31 ' 63.

1. Iz kafedry detskikh bolezney lechebnogo fakul'teta (zav. -
doktc med. nauk S.A. Konokotina) Ivanovskogo gosudarstvennogo
meditsinskogo instituta (rektor - dotsent Ya.M. Romanov).

LAGO, O.M., dotsent; TUR. A.F., prof., konsul'tant; POLTYREV, S.S., prof. konsul'tant

Therapeutic nutrition in anemias in children. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:80-84 ' 63 (MIRA 19:1)

1. Iz kafedry fakul'tetskoy pediatrii (zav. - dotsent O.M. Lago) i kafedry neorganicheskoy khimii (zav. - dotsent N.M. Chistyakov) Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor - dotsent Ya.M. Romanov). 2. Deystvitel'nyy chlen AMN SSSR (for Tur).

LAGO, O.M., dotsent; POLTYREV, S.S., prof., konsul'tant raboty

Study of some trace elements and blood protein fractions in puppies with alimentary anemia. Sbor. nauch. trud. Ivan. gos. med. inst. no. 23:85-92 ' 63   (MIRA 19:1)

1. Iz kafedry fakul'tetskoy pediatrii (zav. - dotsent O.M. Lago) i kafedry obshchey khimii (zav. - dotsent N.M. Chistyakov) Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor - dotsent Ya.M. Romanov).

SEDOV, V.I., vrach; POLTIREV, S.S., prof., nauchnyy konsul'tant

Experience in treating enuresis in children at a rural district
hospital. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:
185-188 ' 63.   (MIRA 19:1)

1. Iz Vychugskoy rayonnoy bol'nitsy No. 1 Ivanovskoy oblasti
(glavnyy vrach V.A. Kokorin).

IKRAMOV, Z.Kh. (Dushanbe); POLTYREV, S.S. (Ivanovo); KUSHKIN, L.A.
(Ivanovo)

Reviews and bibliography. Fiziol. zhur. 51 no.9:1137-1140 S
'65.   (MIRA 19:0)

KHOKHLOVA, T.I.; POLTYREV, S.S., prof., nauchnyy rukovoditel'

Effect of artificially induced hypothermia on the work of gastric
and intestinal glands in animals subjected to the disruption of
higher nervous activity. Sbor. nauch. trud. Ivan. sel'khoz.
Inst. no.19:190-193 '62.   (MIRA 17:1)

1. Kafedra anatomii i fiziologii sel'skokhozyaystvennykh
shivotnykh Ivanoskogo sel'skokhozyaystvennogo instituta (zav. -
dotsent A.K. Petrov) i patologicheskoy fiziologii Ivanovskogo
gosudarstvennogo meditsinskogo instituta (zav.- prof.
S.S. Poltyrev).

LOGINOVA, V.N., assistent; POLTYREV, S.S., prof., nauchnyy konsul'tant

Raising Yaroslavl calves by the method of dam-suckling. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:238-242 '62.

Zootechnical and some physiological and biochemical indices of the growth and development of Yaroslavl calves. Ibid.:243-250
(MIRA 17:1)
1. Kafedra chastnogo zhivotnovodstva (zav. - prof. M.P. Korzenev) Ivanovskogo sel'skokhozyaystvennogo instituta.

KOROLEVA, N.A., kand.med.nauk; POLTYREV, S.S., nauchnyy konsul'tant,prof.;
SEREBRENIKOV. S.3., nauchnyy konsul'tant, prof.

Afferent influences on some indicators of metabolic processes
in experimental peritonitis. Sbor. nauch. trud. Ivan. gos. med.
inst. no.27:138-142'62.   (MIRA 16:8)

1. Iz kafedry normal'noy fiziologii (zav. - prof. S.S.
Serebrenikov) Ivanovskogo gosudarstvennogo meditsinskogo in-
stituta (rektor -- dotsent Ya. M. Romanov).
     (PERITONITIS)   (METABOLISM, DISORDERS OF)

BOKSER, O.Ya.; MISHAKHIN, D.A.; POLTYREV, S.S.

[Philosophical significance of the problem of reticular
formation of the brain] Filosofskoe znachenie problemy re-
tikuliarnoi formatsii golovnogo mozga. 2., dop. izd.
Ivanovo, 1961.   40 p.   (MIRA 16:6)
                           (BRAIN)

POLTYREV, Saveliy Solomonovich; BYKOV, V.D., red.; LYUDKOVSKAYA, N.I.,
tekhn.red.

[Problems in the pathogenesis and treatment of some diseases
of the internal organs in the light of experimental data]
Voprosy patogeneza i terapii nekotorykh zabolevanii vnutrennikh
organov v svete eksperimental'nykh dannykh. Moskva, Medgiz,
1962. 210 p.   (MIRA 15:4)
(PATHOLOGY, EXPERIMENTAL)

ROSHCHINA, N.A.,dotsent; POLTYREV, S.S.,prof.

Studies on the mechanism of interoceptive influences from
intestines on the secretory functions of stomach. Sbor.nauch.
trud. Ivan.sel'khoz.inst. no.16:165-170 '58.   (MIRA 13:11)

1. Kafedra fiziologii i anatomii Ivanovskogo sel'skokhozyaystvennogo
instituta (for Roshchina).
                    (STOMACH—SECRETIONS)

SKOVORODIN, N.M.; POLTYREV, S.S.,prof.

Effect of induced lung and pleura diseases on the functions
of liver. Sbor.nauch.trud. Ivan.sel'khoz.inst. no.16:172-174
'58.   (MIRA 13:11)

1. Kafedra fiziologii i anatomii Ivanovskogo sel'skokhozyaystvennogo
instituta (for Skovorodin).
        (LIVER)   (LUNG—DISEASES)   (PLEURA—DISEASES)

SKOVORODIN, N.M.,assistant; POLTYREV, S.S.,prof.

Functional restoration of li er after induced lung and
pleura diseases in relation to therapeutic measures. Sbor.
nauch.trud. Ivan.sel'khoz.inst. no.16:175-180 '58.

(MIRA 13:11)

1. Kafedra fiziologii i anatomii Ivanovskogo s el'skokhozyaystvennogo
instituta (for Skovorodin).

(LIVER) (LUNG—DISEASES) (PLEURA—DISEASES)

KURTSIN, I.T., prof.; red.; POLTYREV, S.S., prof., red.

[Proceedings of the Conference on Problems in the Physiology
and Pathology of Digestion, dedicated to the memory of Academician
K.M.Bykov] Trudy Nauchnoi konferentsii po problemam fiziologii
i patologii pishchevareniia, posviashchennoi pamiati akademika
K.M.Bykova. Ivanovo, 1960. 935 p.

(MIRA 14:2)

1. Nauchnaya konferentsiya po problemam fiziologii i patologii
pishchevareniye, posvyashchennoy pamyati akademika K.M.Bykova.
2. Institut fiziologii im. Pavlova AN.SSSR (for Kurtsin).
3. Ivanovskiy meditsinskiy institut (for Poltyrev).
    (DIGESTION—CONGRESSES)

USSR / Human and Animal Physiology (Normal and Pathological).
         Nervous System.

Abs Jour   : Ref Zhur - Biologiya, No 13, 1958, No. 60821

Author   : Sharygin, A. A.; Poltyrev, S. S.
Inst   : Ivanovo Agricultural Institute
Title   : Some Vegetative Disorders in Experimental Pathology
              of the Lungs and the Pleura

Orig Pub   : Sb. nauchn. tr. Ivanovsk. s.-kh. in-ta, 1956, Vyp. 13,
              108-115

Abstract   : No abstract given

Card 1/1

153

USSR / Human and Animal Physiology. Metabolism.   T

Abs. Jour: Ref Zhur-Biol., No 22, 1958, 101563.

Author : Poltyrev, S. S.
Inst   : Not given.
Title   : Disturbance of Functions of Internal Organs and
          Some Problems of Experimental Therapy.

Orig Pub: Patol. fiziologiya i eksperim. terapiya, 1958, 2,
          No 2, 7-12.

Abstract: No abstract.

Card 1/1

POLTYREV, S.S. (IVANOVO)

Functional disorders of internal organs and some questions of experiment-
al therapy [with summary in English]. Pat.fiziol. i eksp. terap.
2 no.2:7-12 Mr-Ap '58   (MIRA 11:7)

1. Iz kafedry patologicheskoy fiziologii (zav. prof. S.S. Poltyrev)
Ivanovskogo meditsinskogo instituta.
          (INFLAMMATION, exper.
                causing reflex. disord. of internal organs, eff.
                of various agents in animals (Rus))

POLTYREV, S.S., doktor biologicheskikh nauk, professor.

Textbook of the pathological physiology of farm animals for veterinary
institutes and department. Veterinariia 34 no.3:83-86 Mr '57.
(MIRA 10:4)
(Veterinary pathology--Study and teaching)

KURTSIN, I.T.; POLTYREV, S.S. (Leningrad)

Scientific Conference on Problems in the Physiology and Pathology
of Digestion dedicated to the memory of K.M.Bykov. Fiziol. zhur.
47 no.1:131-134 Ja '61.   (MIRA 14:3)
          (PHYSIOLOGY—CONGRESSES)   (DIGESTIVE ORGANS)

ACC NR: AP5026798

SOURCE CODE: UR/0286/65/000/017/0078/0078

AUTHOR: Poltyreva, Ye. S.; Gal'pern, D. Yu.

TITLE: An apochromatic Petzval lens. Class 42, No. 174395 [announced by Organization of the Ministry of the Defense Industry (Organizatsiya ministerstva oboronnoy promyshlennosti)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 78

TOPIC TAGS: photographic lens, Petzval lens

ABSTRACT: This Author's Certificate introduces an apochromatic Petzval lens made up of two positive elements, each of which is combined with a negative element placed behind the positive element and separated from it by an air gap. Correction for spherochromatic abberation is provided by two meniscus elements, one negative and the other positive, with the concave surface facing the image. This compound correction system has a positive power and is located behind the first four lenses.

UDC: 535.824.28

Card 1/2

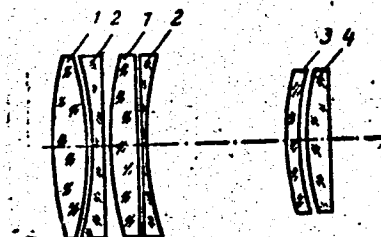L 7012-66

ACC NR: AP5026798

Fig. 1. 1--positive lenses; 2--negative lenses; 3--negative meniscus; 4--positive meniscus

SUB CODE: OP/   SUBM DATE: 11May64/   ORIG REF: 000/   OTH REF: 000

nw

Card 2/2

SUSANSZKIY, Mihaly; POLTZER, Gyorgy

A simple, cheap, and amateur TV picture transmission equipment
suitable for industrial purposes. Radiotechnika 12 no.9:292-294
S '62.

SUSANSZKY, Miklos; POLTZER, Gyorgy

    A simple, cheap TV picture transmission installation suitable
for amateur and industrial purposes. Pt. 2. Radiotechnika 12
no.10:334-335 0 '62.

GERTSEVA, R.V.; TSYBUL'SKAYA, M.S.; AMBARTSUMYAN, TS.L.; NAZARENKO, N.G.;
    POLU'ARSHINOV, G.P.; KHODZHAYEVA, R.P.

    New data on hydrous pitchblende and urgite. Zap.Vses.min.ob-va
    90 no.5:549-556 '61.   (MIRA 14:10)
                 (Urgite)   (Pitchblende)

ONCHESKU, Nikolay [Oncescu, N.], Laureat gosudarstvennoy premii, geolog,doktor,
    prof.; POLUARSHILOV, G.P. [translator]; VYSOTSKIY, I.V., red.; ZNA-
    MENSKAYA, V.K., red.; BELEVA, M.A., tekhn. red.

[Geology of the Rumanian People's Republic] Geologiia Rumynskoi Na-
rodnoi Respubliki. Pod red. i s predisl. I.V.Vysotskogo. Moskva,
Izd-vo inostr. lit-ry; Bucharest, Izd-vo "Meridiany," 1960. 520 p.
Translated from the Rumanian.   (MIRA 14:10)

1. Universitet im. Parkhona v Bukhareste(for Onchesku).
                   (Rumania—Geology)

POLUBABKIN, A.

Device for flattening kingpin bushings. Avt. transp.
43 no.8:43   Ag '65.   (MIRA 18:9)

ABSTRACT: The random star method described elsewhere by two of the authors (Kopy*lov and Polubarinov, Preprint OIYaI D-821, 1961) is used to calculate the photoproduction of e^+e^- and $\mu^+\mu^-$ pairs on electrons, under conditions when none of the third-order diagrams contributing to the photoproduction process $\gamma e^- \to e^- e^- e^+$ can be neglected. The calculations were made in the Born approximation, using a desk calculator, without any neglect, for the intermediate photon energy range, (up to $60m_e$) for which no approximate formulae are

Card 1/2

POLUBARINOV, I. V.
  Joint Institute of Nuclear Research, Laboratory of Theoretical Physics, DUbna, USSR

"Bound States and Scattering of Baryons in Contact Interaction," Nuclear Physics,
v. 8 (1958) pp. 444-460,   (North-Holland Publishing Co., Amsterdam)

Abstract: The possibility of treating   and K mesons as bound states in the four-
baryon interaction theory is considered. The cross section for baryon-baryon
scattering is derived within the framework of this theory in the chain approsimation
The validity of the first approximation of perturbation theory for the cross
section is discussed.

24(5)   SOV/56-37-2-21/56

AUTHORS: Ogiyevetskiy, V. I., Polubarinov, I. V.

TITLE: On Wave Equations With Zero and Non-zero Rest Mass

ABSTRACT: In this paper it is shown that the wave equations with non-
             zero rest mass (including the Klein-Gordon equation and
             the Dirac equation) are invariant with respect to the 15-
             parametric transformation group G_{15} (which is a representation
             of the conformal group C_4). For the Dirac equation there exists
             also the analogon of the Pauli group. The operators of these
             transformations all contain the mass m as a parameter. If
             in the limit m = 0, they transform into the known operators.
             In the group G_{15} some operators representing the Lorentz-
             group must be given a form differing from the usual one. This,
             however, leads into difficulties. The momentum of the parti-
             cle under a Lorentz rotation does not transform as a four-
             vector. When deriving the transformations for non-zero rest
             mass the well-known form of the transformations for m = 0
             will, to a large extent, also be used. In this connection
Card 1/3   the first section of this article is concerned with an inves-

On Wave Equations With Zero and Non-zero Rest Mass   SOV/56-37-2-21/56

tigation of the representations of the conformal group C_4
for a zero rest mass. The actual conformal mappings form a
product of an inversion in the unit-hypersphere $x' = x_\mu/x^2$,
of a translation and of another inversion. In a table the
transformation laws for the solutions of the Klein-Gordon
equation and of the Dirac equation with zero rest mass are
given: $\Box^2 \varphi_0(x) = 0$, $\gamma_\mu \frac{\partial}{\partial x_\mu} \psi_0(x) = 0$. Even the solution

of the Klein-Gordon equation is no scalar with respect to
real conformal transformations and to compressional trans-
formations. In the sequel structural relationships for the
operators of the conformal group and their representations
are given. The infinitesimal operators are given for both
the solutions of the Klein-Gordon equation and for the Dirac
equation for $m = 0$. In the third section the interrelation
between the wave equations for $m \neq 0$ and $m = 0$ are discussed.
In the last section the infinitesimal operators of the 15-
parametric group for the Klein-Gordon- and Dirac equations
with $m \neq 0$ are derived. The finite transformations of the
15-parametric group G_{15} for $m \neq 0$ are very long. As, however,
they are completely defined by their infinitesimal proper-
ties, the author gives only the latter. The authors express

Card 2/3

On Wave Equations With Zero and Non-zero Rest Mass   SOV/56-37-2-21/56

> their gratitude to Professor M. A. Markov for the constant
> interest shown in this work and L.G. Zastavenko for
> valuable discussion. There are 1 table and 15 references.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy
             (Joint Institute of Nuclear Research)

SUBMITTED: February 27, 1959

Card 3/3

OGIYEVETSKIY, V.I.; POLUBARINOV, I.V.

      On meaning of gauge invariance. Dubna, Izdatel'skii otdel Ob"edi-
nennogo instituta iadernykh issledovaniy, 1961. 9 p.
                     (No subject heading)

OGIYEVETSKIY, V.I.; POLUBARINOV, I.V.

Gauge invariant formulation of neutral vector field theory. Zhur.
eksp.i teor.fiz. 41 no.1:247-255 Jl '61.   (MIRA 14:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.
            (Vector analysis) (Quantum theory)

POLUBARINOV, V.I.

KOPYLOV, G. I. and POLUBARINOV, V. I.

"A New Method of Calculation of Feynman Graphs"

report presented at Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Laboratory of High Energy Physics
Laboratory of Theoretical Physics, Dubna, 1962

OGIEVETSKIY, V. I. and POLUBARINOV, I. V.

"Gauge Invariance and Vector Fields"

report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 1962

Laboratory of Theoretical Physics, Dubna, 1962

O.

KOPYLOV, G. I. and POLUBARINOV, I. V.

"Vector Meson Pair Photoproduction"

report presented at the Intl. Confererce on High Energy Physics, Geneva,
4-11 July 1962

Joint Institute for Nuclear Research
Laboratory of High Energy Physics
Laboratory of Theoretical Physics, Dubna, 1962

KOPYLOV, G.I.;POLUBARINOV, I.V.

A numerical method of calculation of Feynman graphs. Dubna,
Ob"edinennyi in-t iadernykh issl. 1962. 5 p.
(No subject heading)

OGIYEVETSKIY, V.I.; POLUBARINOV, I.V.; SARANTSEVA, V.R.[translator]

Quantum electodynamics in terms of electromagnetic field
strengths. Dubna, O"edinennyi in-t iadernykh issledovaniy,
1962. 8 p.

(No subject heading)

33.4400

AUTHORS: Ogiyevetskiy, V. I., Polubarinov, I. V.

TITLE: Quantum electrodynamics in terms of the electromagnetic field intensities

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1365-1370

TEXT: On the basis of previous work (Nuovo Cim., 23, 173, 1962) the authors present a Lorentz-invariant formulation of quantum electrodynamics in terms of the electromagnetic field strengths. The calculations are based on a non-local field-photon interaction. The S-matrix for the interaction Lagrangian is constructed according to the method of D. A. Krizhnits (ZhETF, 41, 551, 1961). The matrix element for a process with n photons is found to be

$$\langle f | S | i \rangle \sim \bar{u} \ldots \partial_{\mu_1} \ldots \partial_{\mu_n} \ldots u F_{\mu_1 4}(\vec{q}_1 s_1) F_{\mu_2 4}(\vec{q}_2 s_2) \ldots F_{\mu_n 4}(\vec{q}_n s_n).$$

Equivalent forms may be obtained when the field strength tensor $F_{\mu\nu}(x)$ is replaced by $\overset{\vee}{F}_{\mu\nu}$ or $F_{\mu\nu} \pm \overset{\vee}{F}_{\mu\nu}$.

Card 1/2

L 16939-63   EWT(1)/EWT(m)/BDS   APFTC/ASD

ACCESSION NR: AP3005274   S/0056/63/045/002/0237/0245

AUTHOR: Ogiyevetskiy, V. I.; Polubarinov, I. V.   5 8
                                                                    5 4

TITLE: Interacting fields with definite spins

SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 237-245

TOPIC TAGS: interacting field , quantum electrodynamics, particle interaction ,
spin

ABSTRACT: Developing further their earlier work (ZhETF v. 41, 247, 1961; Nuovo
Cim. v. 23, 173, 1962; Proc. 1962 Intern. Conf. on High-Energy Phys. at CERN,
1962, p. 606), where the discussion was confined only to quanta with spin-1, the
authors discuss the concept of the spin of an interacting field and of particles
with higher spins, breaking up the theory into two classes: A - theories in which
interacting field, as well as free fields, has only one definite spin, and B -
theories in which no definite spin can be ascribed to the interacting fields.
Conditions are formulated for the existence of Class A interactions and it is
shown that Class A includes all the equations of Gel'fand and Yaglom ZhETF v. 18,
703, 1948), the Proca equation for spin 1, and the Rarita-Schwinger equation for

Card 1/2

L 16939-63

ACCESSION NR: AP3005274   4

spin 3/2. Other examples are also given. It is pointed out that interactions
known not to belong to Class A also exist. "In conclusion we thank N. A. Markov
B. N. Valuyev, and Ya. I. Granovskiy for discussions." Orig. art. has 29 formulas
and 2 figures.

ASSOCIATION: Ob"yedinennyy institut haderny#kh issledovaniy (Joint Institute
of Nuclear Research)

SUBMITTED: 23Jan63   DATE ACJ: 06Sep63   ENCL: 00

SUB CODE: PH   NO REF SOV: 008   OTHER: 016

Card 2/2

OGIYEVETSKIY, V.I.; POLUBARINOV, I.V.

Theory of a neutral vector field with spin 1. Zhur. eksp. i teor.
fiz. 45 no.3:709-712 S '63.   (MIRA 16:10)

1. Ob"yedinennyy institut yadernykh issledovaniy.
        (Spinor analysis)   (Quantum electrodynamics)

OGIYEVETSKIY, V.I.; POLUBARINOV, I.V.

Interacting fields with spin 1 and symmetry properties. Zhur.
eksp. i teor. fiz. 45 no.4:966-977 O '63. (MIRA 16:11)

1. Ob"yedinennyy Institut yadernykh issledovaniy.

OGIYEVETSKIY, V. I.; POLUBARINOV, I. V.

Minimal interactions between fields with spin: 0, 1/2, and 1.
Zhur. eksp. i teor. fiz. 46 no. 3:1048-1055 Mr '64.

(MIRA 17:5)

1. Ob"yedinennyy institut yadernykh issledovaniy.

ACCESSION NR: AP4031153   S/0056/64/046/004/1320/1330

AUTHORS: Kopy*lov, G. I.; Polubarinov, I. V.; Semashko, G. L.

TITLE: Estimate of the cross section for the photoproduction of vector boson pairs

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1320-1330

TOPIC TAGS: vector boson, intermediate vector boson, weak interaction, vector boson pair photoproduction, photoproduction in proton, photoproduction in nucleus, nonrelativistic limit, random star calculation, Monte Carlo calculation, Duffin Kemmer algebra

ABSTRACT: The cross section for the photoproduction of pairs of vector bosons with magnetic moment $\gamma = 1$ in nuclei and in protons is calculated in the Born approximation. This is the first published calculation pertaining to pair production in protons. The random star method is used and the calculations cover the entire range of

Card   1/3

ACCESSION NR: AP4031153

energies for which the existing approximate formulas are applicable
(up to $q_0 \sim 100$ GeV). The region of applicability of the obtained
nonrelativistic and existing ultrarelativistic formulas is deter-
mined. The calculations were made with an electronic computer direct-
ly from the Feynman diagrams, using a procedure developed by the
authors and described elsewhere (preprint, OIYaI D-821, 1961). A
formula $\sigma = \sigma_{nonrel.}(1 + \kappa\tau_3/q_0)$ is proposed for estimating purposes
at intermediate energies and is found to fit the calculated values
quite well. The dependence of the cross section of pair production
on the atomic number in the case of pair production on nuclei is
also evaluated. "In conclusion we are grateful to Professor M. A.
Markov for suggesting the problem and for interest in the work, to
Om San Ha for great help in solving the problem, and to B. N.
Valuyev, V. I. Ogievetskiy and M. I. Shirokov for useful discussions."
Orig. art. has: 5 figures, 49 formulas, and 1 table.

Card   2/3

ACCESSION NR: AP4031153

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint
Institute of Nuclear Research)

SUBMITTED: 12Sep63   DATE ACQ: 07May64   ENCL: 00

SUB CODE: PH   NO REF SOV: 006   OTHER: 011

Card   3/3

KOPYLOV, G.I.; KULYUKINA, L.A.; POLUBARINOV, I.V.

Photoproduction of electron and muon pairs on electrons.
Zhur. eksp. i teor. fiz. 46 no.5:1715-1721 My '64.

(MIRA 17:6)

1. Ob"yedinennyy institut yadernykh issledovaniy.

ACCESSION NR: AP4042574   S/0056/64/046/006/2102/2107

AUTHORS: Ogiyevetskiy, V. I.; Polubarinov, I. V.

TITLE: On the choice of vector field propagators

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 2102-2107

TOPIC TAGS: perturbation theory, causality, quantum electrodynamics, vector space, Green function

ABSTRACT: In order to ascertain in which local theories one can choose the propagators of vector fields in transverse form, the authors demonstrate that the propagators can be chosen in transverse forms only in theories in which the longitudinal part of the propagators is simply inessential (electrodynamics, Yang-Mills theory for massless vector fields, or the theory of a massive mutual vector field). Such theories were previously described by the authors (ZhETF v. 45, 166 and 709, 1963), where they were called class A

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ACCESSION NR: AP4042574

theories. In the theories which the authors have defined as class B, and for which a complete listing is not possible, the propagators cannot be chosen in transverse form, since this leads to violation of unitarity or causality. This includes local theories of massive charged vector fields. In theories of class A with zero mass of vector fields, unity spin is ensured by gauge invariance, so that it is possible to add arbitrary gradient additions to the propagator. In particular, the propagator can be chosen transverse. If the mass of the vector fields in class A theories differs from zero, then the choice of the propagator in the transverse form for all the components of the vector field is simultaneously inadmissible, since it leads in the local theories to violation of either causality or unitarity. No attempt was made to go outside the framework of perturbation theory. "The authors are grateful to B. N. Valuyev and D. V. Shirkov for stimulating discussions." Orig. art. has: 1 figure and 24 formulas.

Card 2/3

ACCESSION NR: AP4042574

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint
Institute of Nuclear Research)

SUBMITTED:· 13Dec63   DATE ACQ: ENCL: 00

SUB CODE: . GP   NR REF SOV: 008   OTHER: 011

Card 3/3

OGIYEVETSKIY, V.I.; POIUBARINOV, I.V.

Einstein's equations as describing a massless tensor field
with spin 2. Dokl. AN SSSR 166 n.3.594-58^ Ja '66.
                                                    (MIRA 19:1)
1. Ob"yedinennyy institut yadernykh issledovaniy. Submitted
May 15, 1965.

L 09215-67   EWT(m)   SOURCE CODE: UR/0020/66/166/004/0839/0842
ACC NR: AP7002776   30

AUTHOR: Ogiyevetskiy, V. I.; Polubarinov, I. V.

ORG: Joint Institute for Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy)

TITLE: Theory of a neutral massive tensor field with spin 2

SOURCE: AN SSSR. Doklady, v. 166, no. 4, 1966, 839-842

TOPIC TAGS: nuclear physics, nuclear spin

ABSTRACT: An interacting symmetrical tensor field $h^{\gamma\mu}(h^{\gamma\mu} = h^{\mu\gamma})$ may define spins 2 and 1 and two spins 0. A theory of such interacting mass tensor field was developed, deriving a supplementary Hilbert-Lorentz type generalized condition from the equation of motion. In this theory, the $h^{\mu\gamma}$ field may define only spins 2 and 0, excluding the other 0 spin and the spin 1 because the sign of the spin 1 energy is opposite of that of spins 2 and 0. The interaction of the tensor field with itself and with the scalar field was examined; a two-parameter family of nonequivalent theories was obtained for the mass tensor field. The equation obtained differed from Einstein's equation by possessing a cosmological term which disturbs the general covariance and the theory of equivalence. This paper was presented by academician N. N. Bogolyubov on 15 May 1965. The authors thank B. N. Valuyev, M. A. Markov and Ya. A. Smorodinskiy for useful discussions. Orig. art. has: 22 formulas. [NA]

SUB CODE: 20 / SUBM DATE: 10May65 / ORIG REF: 003

UDC: 530.12+530.145

Card 1/1

See also folder for: KOCHINA, P. Ya.

POLUBARINOVA-KOCHINA, P. Ya.

"On The Continuity of Variation of the Velocity Hodograph In a Plane Steady Motion of Ground Waters," Dok. AN, 24, No 4, 1939.

Institute of Mechanics; Mbr. AS

POLUBARINOVA-KOCHINA, P. Ya.

"Calculation of Filtration Through an Earth Dam," Prik. Matemat. i Mekh., 4, No 1, 1940.

POLUBARINOVA-KOCHINA, P. Ya.

"Concerning Filtration in Anisotropic Soil," Prik. Matemat. i Mekh., 4, No 2, 1940.

POLUBARINOVA-KOCHINA, P. Ya.

"Concerning the Most Simple Cases of Oozing In a Double-Layered Medium,"
Dok. AN 26, No 8, 1940.

Institute of Mech., AS.

POLUBARINOVA-KOCHINA, Pelageia Iakovlevna.

Problems of the two-dimensional flow of ground waters.   Moskva, Izd-vo Akademii nauk SSSR, 1942.   142 p.   (44-14133)

QA913.P6

POLUBARINOVA-KOCHINA, P. Ya.

"Inflow of Fluids to Oil Wells in a Heterogeneous Medium," Dok. AN, 34, No 2,

1942.

Institute of Mech., AS.

POLUBARINOVA-KOCHINA, P. Ya.

"On the Displacement of the Oil-Bearing Contour," Dok. AN, 47, No 4, 1945.

Institute of Mechan.; Mbr. AS

POLUBARINOVA-KOCHINA, P. Ya.

Feb 1947

USSR/Water, Ground
       Hydrostatics

"The Unsteady Motion of Ground Water With a Free Surface," N. K. Kalinin, P. Ya.
Polubarinova-Kochina, 6 pp

"Prik Mate i Mekh" Vol XI, No 2

Discussion of the problem of unsteady influx of ground water in a horizontal
drain. Treatment of the determination of the form of the free surface, and
the calculation of the relationship between the discharge into the drain and
time.

PA 15T4

PA 21737

Polubarinova-Kochina, P.Ya.

USSR/Hydrology   Mar 1947
     Hydraulics

"The Hydraulic Thoery of Wells in a Stratified Medium,"
P. Ya Polubarinova-Kochina, Moscow, 5 pp

"Prikladnaya Matematika i Mekhanika" Vol XI, No 3

The problem of the infiltration of liquids into wells
in so-called water-tight and slightly premeable layers
is set up. The equations involve n (the number of the
water-layer), En (piezometric head), Kn (filtration
coefficient), and m_{x_1} (the power) and Bessel functions.
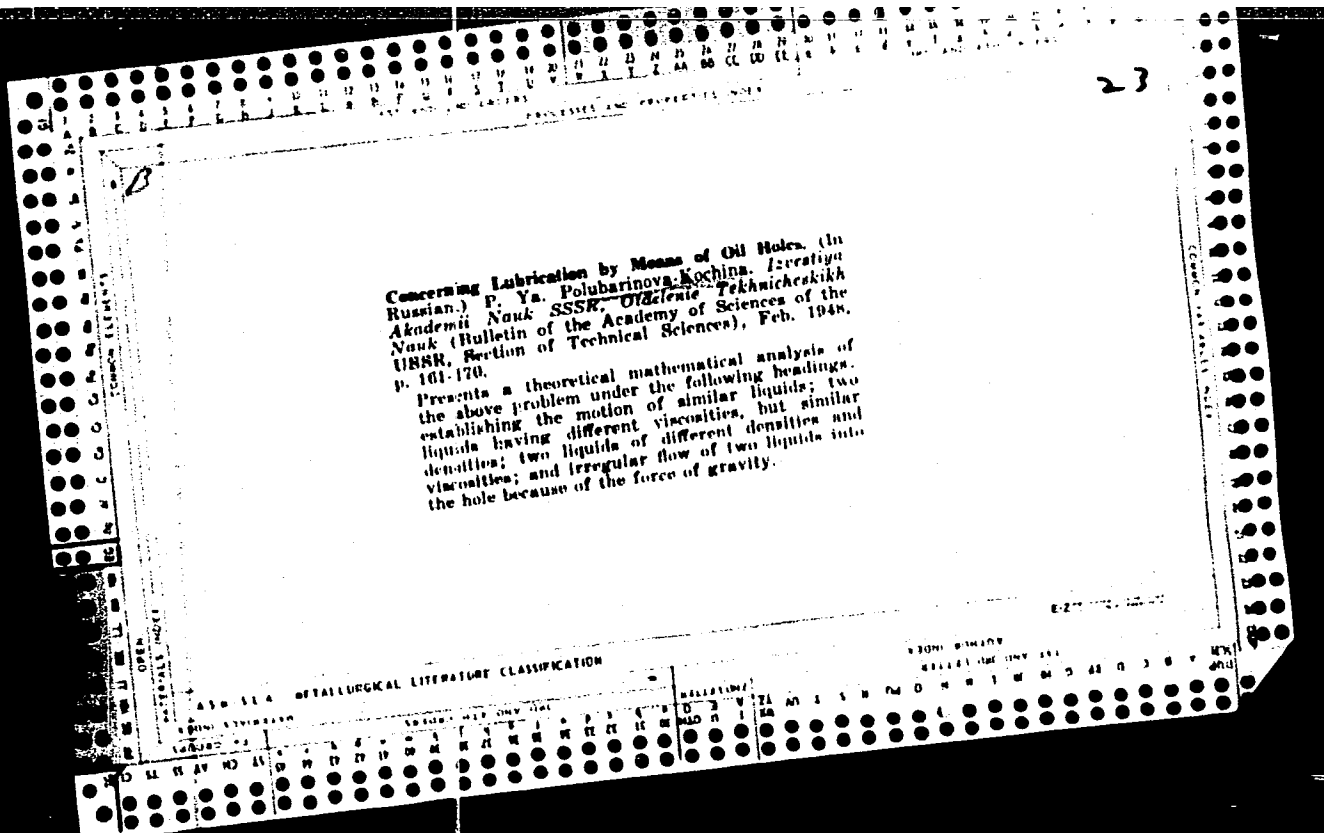
21T37

POLUBARINOVA-KOCHINA, P. Ya.

Polubarinova-Kochina, P. Ya., and Fal'kovič, S. V. The theory of seepage of a fluid in porous media. Akad. Nauk SSSR. Prikl. Mat. Meh. 11, 629–674 (1947). (Russian). This is a comprehensive report on the Russian contributions to the theory of seepage of an incompressible fluid through a porous medium. It gives a review of a great number of exact solutions for the corresponding steady and unsteady motion with or without a free surface. The paper contains a seven page bibliography.   A. Weinstein.

Vol 10, No. 1

Source: Mathematical Reviews,

Inst. Mechanics, AS USSR

23

Concerning Lubrication by Means of Oil Holes. (In Russian.) P. Ya. Polubarinova-Kochina. *Izvestiya Akademii Nauk SSSR, Otdelenie Tekhnicheskikh Nauk* (Bulletin of the Academy of Sciences of the USSR, Section of Technical Sciences), Feb. 1948. p. 161-170.

Presents a theoretical mathematical analysis of the above problem under the following headings: establishing the motion of similar liquids; two liquids having different viscosities, but similar densities; two liquids of different densities and viscosities; and irregular flow of two liquids into the hole because of the force of gravity.

METALLURGICAL LITERATURE CLASSIFICATION

POLUBARINOVA-KOCHINA, P. YA

PA 43/43T94

USSR/Petroleum Industry   Feb 1948
    Oil Wells
    Irrigation

"Irrigation of Oil Wells," P. Ya. Polubarinova-Kochina, Corr Mem, Acad Sci USSR, Inst Mech, Acad Sci USSR, 8 pp

"Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 2

Describes research carried out in Institute of Mechanics, and indicates methods used to solve various problems of oil-well irrigation. Methods may be used in other problems.

43T94

POLUBARINOVA-KOCHINA, P. YA.'   PA 35/49T99

USSR/Physics   Dec 48
      Hydraulics
      Mathematics - Applied

"One Nonlinear Equation in Partial Derivatives
Which Is Encountered in the Theory of Filtration,"
P. Ya. Polubarinova-Kochina, Corr Mem, Acad Sci ∧/
USSR, 4 pp   6 //

"Dok Ak Nauk SSSR" Vol LXIII, No 6   ③

Extensions of Darcy's equation for unidimensional,
nonstationary flow of subsurface waters for vary-
ing conditions on the water level in the medium
(river or canal). Submitted 20 Oct 48.

                                         35/49T99

POLUBARINOVA-KOCHINA, P. Ya.

"Irregular Motions in the Theory of Filtration," 1949.

Mbr., Dept. Technical Sci., AS

POLUBARINOVA-KOCHINA, P. Ya.

Polubarinova-Kochina, P. Ya. On the history of the prob-
lem of the rotation of a rigid body. Izvestiya Akad.
Nauk SSSR. Otd. Tehn. Nauk 1949, 626–632 (1949).
(Russian)

Source: Mathematical Reviews,   Vol 11 No. 10

Applied Mechanics
Review

Soil Mechanics, See page—

2083. P. Ya. Polubarinova-Kochina, On some unsteady motions of soil waters (in Russian), Izv. Akad. Nauk SSSR, Ser. tekh. Nauk 1949, pp. 838-846 (June 1949).

The author discusses the difficulties inherent in problems of two-dimensional unsteady seepage, and describes the experimental study of the following two problems: (1) Flow in the vicinity of drains. (2) Flow between a canal and a soil bank, as the level of the water in the former is suddenly changed.

The experiments have been performed on the actual models and the capillary analog, involving the flow of glycerine between two glass plates. The results are compared with the mathematical solutions, both more accurate and simplified. Some mathematical formulas are given   Alexander Hrennikoff, Canada.

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