

FIISAKOVA, E.; CHARVAT, A.; ROTREKL, V.

Our experiences with nephropexy in a wandering kidney. Rozhl.
chir. no.10:666-671 0 '59.

1. Rentgenolog. odd. fakultni nemocnice v Praze 1 - Pod Petrinem,
vedouci prim. dr. E. Filsakova; Chirurgicka katedra detskeho
lekarstvi, vedouci prof. dr. Jan Knobloch; Interni katedra fakulty
detskeho lekarstvi, vedouci prof. dr. Vladimir Jedlicka.
(KIDNEYS abnorm.)

ROTRÉKL, V.

S. author

PRAŽÁK, J; FILSAKOVÁ, E., Dr; PANOŠ, J; ROTRÉKL, V; URBAN, J.

Czechoslovakia

First Internal Clinic FDL (I. vnitřní klinika FDL);
Director: Prof Vlad. JEDLIČKA, Dr. Sc;
Second Internal Clinic FDL (II. vnitřní klinika
FDL); Director: Dr. Richard FOIT, Dr. Sc;
X-Ray Department of the Faculty Hospital Pod
Petřínem (Rentgenové odd. fak. nemocnice Pod
Petřínem -- Pod Petřínem); Director E. FILSAKOVÁ, Dr.
- (for all)

Prague, Vnitřní lékařství, No XI-1, 1963, pp 60-62

"The Problem of Military so-called Influenzal
Bronchopneumonia."

(5)

URBAN, J.; KUGLEROVA, N.; ROTREKL, V.

Myocardial infarct and cardiac rupture. Cas. lek. cesk. 102 no.6:
155-160 8 F '63.

1. I. interni klinika fakulty detskeho lekarstvi KU v Praze, nemocnice
pod Petrinem prednosta prof. dr. Vl. Jedlicka, DrSc.
(MYOCARDIAL INFARCT) (CARDIAC TAMPONADE)

PRAZAK, J.; FILSAKOVA, E.; URBAN, J.; ROTREML, V.; KOTRLIK, J.; KUGLEROVA, N.

Broncho-pulmonary manifestations of influenza. Cas.lek.cesk. 99
no.47:1480-1484 18 N 1960.

I. I. interni klinika FDL KU, prednosta prof. dr. VI. Jedlicka,
doktor lekarskych ved. Rtg oddeleni OUNZ Praha I, nemocnice Pod
Petrinem, primarka dr. E. Filsakova.
(INFLUENZA compl)

ACC NR: AP6006004

SOURCE CODE: CZ/0053/65/014/004/0274/0274

AUTHOR: Benes, L.; Rotreklova, E.

ORG: Biophysical Institute CSAV, Brno (Biofyzikalni ustav CSAV)

30
B

TITLE: Radiosensitivity of reticular cells [This paper was presented during
Biophysical Days, Brno, 11 June 1964.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 274

TOPIC TAGS: erythropoiesis, radiation biologic effect, radioisotope, tracer study

ABSTRACT: Study of the incorporation into 600r-irradiated reticular cells of
(added immediately after irradiation) thymidine-³H and formate-¹⁴C revealed no
difference in any group in reticular cell response; pro- and erythroblasts and
pro- and myeloblasts respond similarly to irradiation. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 001

Card 1/1 HW

DEREVICI, A.; PETRESCU, Al.; BRONITKI, Al.; ROTSCCHILD, L.

Variations in characteristics of strains of influenza virus studies
in the Rumanian People's Republic during 1953-1955.

1. Comunicare prezentata in Sesiunea generala stiintifica a Academiei
R.P.R. 2-6 iulie 1956 in sedinta din 4 iulie 1956.

(INFLUENZA VIRUSES

strains isolated in Rumania, variations in antigenic
structure, virulence for mice, antibody titers & dynamics
in Rumanian subjects)

(ANTIGENS

antigenic structure of strains of influenza virus isolated
in Rumania)

(INFLUENZA, immunology

antibody titers & dynamics in population of several Rumanian
cities)

DEREVICI, A.; SARATEANU, D.; PETRESCU, Al.; DRAGANESCU, N.;
BRONITKI, Al.; ROTSCHILD, L.; ISRAEL, M.

Antigenic correlations of strains of influenza virus isolated in
the people's Republic of Rumania in 1953 and 1954. Stud. cercet.
inframicrobiol., Bucur. 6 no.1-2:17-24 Jan-June 55.

1. Institutul de inframicrobiologie al Academiei R.P.R. si
organele de teren ale Ministerului Sanataii.

(INFLUENZA VIRUS

strains isolated in Rumania, antigenic correlations)

(ANTIGENS AND ANTIBODIES

antigenic properties of strains of influenza virus
isolated in Rumania)

DEREVICI, A.,; PETRESCU, Al.,; ROTSCCHILD, L.

Effect of non-specific excitation of the nasal exteroceptors
on anti-influenza immunization of rats and mice. Stud. cercet.
inframicrobiol., Bucur. 6 no.1-2:25-34 Jan-June 55.

(INFLUENZA, immunology

eff. of astringent-induced stimulation of nasal
exteroceptors, in rats & mice)

(NERVE ENDINGS

exteroceptors of nasal mucosa, eff. of stimulation on
anti-influenza vacc. in rats & mice.)

(CENTRAL NERVOUS SYSTEM, physiol.

role in reactivity to anti-influenza vacc.. in rats &
mice)

ROTSCHILD, L.; JORDA, V.; RUZICKA, J.

Werner's syndrome. Bratisl. lek. listy 45 no. 4:222-228
28 F'65.

I. Dermatologická klinika Universit, Palackého v Olomouci
(vedoucí: prof. dr. G. Lejhanec).

JORDA, V.; ROTSCHILD, L.; CERNOHOUS, J.

Tubercula mulgentium in agriculture. Pracovni lek. 13 no.10:492-494
D '61.

1. Dermatologicka klinika lekarske fakulty University Palackeho v
Olomouci, prednosta prof. MUDr. Gustav Lejhanec Katedra vnitrnich
chorob veterinarni fakulty VSZ v Brne, vedouci prof. MVDr. K. Sobra.


(VACCINIA) (FINGERS diseases)
(OCCUPATIONAL DISEASES)

Z/009/60/000/01/038/038
E073/E235

AUTHOR: Rotrekl, B

TITLE: New Method of Metallising Plastics

PERIODICAL: Chemický průmysl, 1960, Nr 1, p 56

ABSTRACT: A brief description of a patent application by a team of the Research Institute of Synthetic Resins and Varnishes, Pardubice, relating to a method of metallising plastic substances based on ionizing their surface. 

ASSOCIATION: VU syntetických pryskyřic a laků Pardubice
(Research Institute for Synthetic Resins and Varnishes,
Pardubice)

Card 1/1

FILSAKOVA, E.;CHARVAT, A.;ROTRÉKL, V.

Our experiences with nephropexy in a wandering kidney. Rozhl.
chir. 38 no.10:666-671 0 '59

1. Rentgenolog. odd. fakultni nemocnice v Praze 1 - Pod Petrinem,
vedouci prim. dr. E. Filsakova Chirurgicka katedra fakulty detskeho
lekarstvi, vedouci prof. dr. Jan. Knobloch Interni katedra fakulty
detskeho lekarstvi, vedouci prof. dr. Vladimir Jedlicka.
(KIDNEYS, abnorm.)

CZECHOSLOVAKIA

J. NEŠAN, M. KUGLEŠOVA and V. ROJČEK, First Internal Medicine Clinic of Pediatric Faculty (I. interní klinika fakulty dětského lékařství) KU [Karlova Univerzita = Charles University] Prague, Hospital (nemocnice) pod Petřínem; Head (prednosta) Dr VI. JEDLIČKA, DrSc

"Myocardial Infarct and Rupture of the Heart Muscle."

Prague, Cesopis Lekaru Ceskych, Vol 102, No 6, 3 Feb 63; pp 155-160.

Abstract [English summary modified]: Of 183 patients who succumbed to cardiac infarct in 1955-1961, 14 had heart muscle rupture; the 14 are reviewed in detail. The role of anticoagulants in facilitating such a complication could not be confirmed, and diagnosis during life is virtually impossible. EKG, 3 tables, 11 Czech, 3 Soviet and 29 Western references.

ROPREKL, Viktor; URBAN, Jan; PRAZAK, Josef

Clinical course of complications observed during the influenza epidemic in the spring of 1959. Cas.lek.cesk. 99 no.47:1469-1474 18 N '60.

1. I. klinika chorob vnitřních fakulty detského lékařství KU v Praze, přednáška prof. dr. V. I. Jedličky.
(INFLUENZA compl)

URBAN, J.; ROTREKL, V.; PRAZAK, J.

Influenzal cardiopathies. Cas.lek.cesk. 99 no.47:1474-1479 18 N'60.

I. I. interni klinika FDL KU v Praze, prednosta prof. dr. Vladimir
Jedlicka.

(INFLUENZA compl)

(HEART DISEASE etiol)

DERZVICI, A.; PETRESCU, A.; ROTSCCHILD, L.; BRONITKI, A.; SARATEANU, D.; DRAGAN-
ESCU, N.

Comparative study of the dynamics of anti-influenza serum antibodies
and of the influenza strains in the Rumanian People's Republic in the
period 1954-1955 1957. Stud. cercet. inframicrobiol., Bucur. 8 no.139-148
1957. (INFLUENZA VIRUSES

strains isolated in Rumania)

(INFLUENZA

epidemiol. in Rumania & dynamics of serum antibodies)

(ANTIBODIES

influenza antibodies in Rumanian population, dynamics)

VISAN, A.; SATMARI, G.; PETRUSCA, J.; STANCU, A.; BRONITKI, A.; ROTSCCHILD, L.;
PIRONCOF, M.; GUNA, S.

Effectiveness of anti-influenza vaccinations. Stud. cercet. infra-
microbiol., Bucur. 8 no.1:57-69 1957.

(INFLUENZA, prevention & control
vacc., effectiveness of German polyvalent vaccine & Rumanian
monovalent vaccine)

(VACCINES AND VACCINATION
influenza vacc., effectiveness of German polyvalent & Rumanian
monovalent vaccines)

RUMANIA / Virology. Human and Animal Viruses. Influenza Virus. E-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 81244

Authors : Derevici, A.; Petrescu, Al.; Bronitki, Al.; Rotschild, L.
Inst : Not given

Title : Natural Variability in Strains of Influenza Virus Studied in
Rumania During 1953-1955.

Orig Pub : Studii si cercetari inframicrobiol., microbiol. si parazitol.,
1957, 8, No. 2, 173-190.

Abstract : No abstract

Card 1/1

RUMANIA / General Problems of Pathology. Immunity.

U

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102390.

Author : Mirza, L.; Picos, A.; Rotschild, L.; Petrescu, Al.;
Bronitki, Al.

Inst : Not given.

Title : The Role of the Cerebral Cortex in the Formation
of Antiinfluenzal Immunity in White Mice.

Orig Pub: Studii si cercetari inframicrobiol., microbiol.
si parasitol., 1957, 8, No 2, 191-199.

Abstract: Of 19 mice that had developed a conditioned reflex,
11 were immunized against influenza (formalinized
suspension of the lung tissue of animals infected
with the virus). An increase of the process of
stimulation was noted, on the background of which
short intervals of inhibition in the beginning of

Card 1/2

*Presented - Institutul de infamicrobiologie
si parazitologie R.P.R. in sedinta din
5 Martie 1958*

RUMANIA / General Problems of Pathology. Immunity. U

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102390.

Abstract: antibody production were noted. After the last vaccination, the changes of HNA took place in the animals with restless behavior, and, after the 2nd, in the remainder of the animals. -- From the authors' resume.

Card 2/2

Rotschild, L.

DEREVICI, A.; PETRESCU, A.; ROTSCCHILD, L.; BRONITKI, A.; SARATEANU, D.

Biological characteristics of strains of influenza virus isolated
in 1956 in the Rumanian People's Republic. Stud. cercet. inframicrobiol.,
Bucur. 8 no.3:349-360 1957.

(INFLUENZA VIRUSES

strains isolated in 1956 in Rumania, biol. characteristics)

ROTSCHILD, L.; LENFELD, J.; JORDA, V.; MALINSKY, J.

Effect of emetine on phlebitis. Cesk. fysiол. 7 no.4:333-334 July 58.

1. Dermatologicka klinika, farmakologicky a histologicky ustav lek.
fak. PU, Olomouc.

(EMETINE, effects,
on exper. phlebitis (Cz))

(PHLEBITIS, exper.
eff. of emetine (Cz))

ROTSCHILD, L.; JORDA, V.; CERNOHOUS, J.

On the etiology of milker's nodes. Cesk. dermat. 36 no.5:308-311 Ag '61.

1. Dermatologicka klinika lekarske fakulty Palackeho university v Olomouci, prednosta prof. MUDr. Gustav Lejhanec Katedra vnitrnich chorob veterinarni fakulty VSZ v Brne, vedouci prof. MVDr. K. Sobra.

(VIRUS DISEASES etiol)

WIEDERMANN, M.; ROTSCCHILD, L.; JORDA, V.; KUBA, J.; MELICHAR, M.

Clearance of I-131 labeled sodium iodide by the skin in diseases of the deep venous system of the lower extremities. (Preliminary report). Cesk. dermat. 39 no.2:142-144 Ap'64

1. Radioizotopove oddeleni Fakultni nemocnice v Olomouci (vedouci: MUDr.M.Wiedermann) a Dermato-venerologicka klinika lekarske fakulty PU v Olomouci (prednosta: prof.dr. G.Lejhanec).

*

L 25170-65

ACCESSION NR: AP5005777

S/0219/64/058/010/0074/0077

20
19
B

AUTHOR: Rudoy, B. Z.; Afonova, V. N.; Baranov, A. A.; Rotsel', A. A.; Promakhova, S. S.

TITLE: Biochemical indexes of skin transplants ² from human embryos and adult humans, used for replacing skin defects

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 58, no. 10, 1964, 74-77

TOPIC TAGS: skeletal mechanics, biochemistry, human physiology

Abstract: The nitrogen content and biochemical changes in transplants of embryonic skin and skin from an adult human were studied. Embryonic skin contains more moisture and somewhat less nitrogen and protein nitrogen than adult skin, and it has a considerably higher level of water-soluble nitrogen compounds: residual and polypeptide nitrogen, free amino acids, cystine, and lysine. Skin protein decomposition evoked by autolytic and proteolytic enzymes is much more rapid in embryonic skin than in skin from an adult. The high lability of proteins in embryonic skin, combined with its high content of proteo-

Card 1/2

L 25170-65

ACCESSION NR: AP5005777

lytic enzymes, provides for intensive protein decomposition and resynthesis, thus promoting the healing process. Orig. art. has 5 tables.

ASSOCIATION: Kafedra obshchey khimii, Ryazanskiy meditsinskiy institut im. I. P. Pavlova (Department of General Chemistry, Ryazan' Medical Institute)

SUBMITTED: 15Jul63

ENCL: 00

SUB CODE: IS

NO REF SOV: 004

OTHER: 001

JPRS

Card 2/2

RUBOV, B.Z., prof.; ILKHOMIROVA, V.M.; PIROVA, V.M.; BERTEL', A.I.;
BARINOV, A.A.

[Manual of laboratory work in inorganic and analytical
chemistry] Rukovodstvo k prakticheskim zaniatiyam po kur-
su neorganicheskoi i analiticheskoi khimii. Riazan',
Giacanskii in-t, 1963. 158 p. (MIRA 12:9)

RUDOY, B.Z.; AFONOVA, V.N.; BAFANOV, A.A.; ROTSEL', A.I.; PROMAKHOVA, S.S.

Biochemical indices for skin transplants from human fetuses
and adults used for the closure of skin defects. Biol. eksp.
biol. i med. 58 no.10:74-77 0 '64.

(MIRA 18:12)

1. Kafedra obshchey khimii (zav. -- prof. B.Z. Rudoy) Ryazanskogo
meditsinskogo instituta imeni Pavlova. Submitted July 15, 1963.

RUDOV, B.Z., prof.; TIKHOMIROVA, V.N.; AFONOVA, V.N.; ROTSEL', A.I.;
BARANOV, A.A.

[Manual for laboratory work in inorganic and analytical
chemistry] Rukovodstvo k prakticheskim zaniatiyam po kursu
neorganicheskoi i analiticheskoi khimii. Riazan', Riazanskii
med. in-t im. akad.I.P.Pavlova, 1963. 158 p.

(MIRA 16:12)

(Chemistry, Inorganic--Laboratory manual)
(Chemistry, Analytical--Laboratory manual)

NEZDATNYI, S.M.; GURKEVSKIY, G.M.; ROTSEL', V.I.; MARKOV, S.A.; REZNIK, L.L.

Rubber expansion pieces for pipelines. Suggested by S.M.Nezdatnyi,
G.M.Gurkevskii, V.I.Rotsel', S.A.Markov, L.L.Reznik. Rats. 1 izobr.
predl. v stroi. no.15:74-75 '60. (MIRA 13:9)

1. Po materialam Tekhnicheskogo upravleniya Ministerstva stroitel'stva
USSR.

(Pipe fittings)

ROTSCHILD, L.; RUZICKA, J.; JORDA, V.

Linear circumflex ichthyosis of Comel. Cesk. dermat. 29 no.3:
162-165 My'64

1. Dermato-venerologicka klinika lekarske fakulty PU [Palackeho university) v Olomouci; prednosta: prof. dr. G. Lejhanec.

ROTSHIL'D, YE. V.

USSR/ Biology - Zoology

Card 1/1 . Pub. 86 - 34/38

Authors : Rotshil'd, Ye. V.

Title : Nocturnal activity of the big jerboa

Periodical : Priroda 44/7, page 119, Jul 1955

Abstract : A resumé is presented of the observations of several scientists from which the conclusion is drawn that the big jerboa, contrary to formerly held views, is also active at night, apparently finding it safe to venture longer distances in search of food.

Institution :

Submitted :

ROTSIL'D, Ye.V.

Winter mobility of small forest animals [with English summary in insert].
Zool.zhur.35 no.5:758-769 My '56. (MIRA 9:9)

1.Aralomorskaya stantsiya Ministerstva zdravookhraneniya SSSR.
(Animals, Migration of) (Mice)

ROPSHIL'D, Ye.V.

Sand dune cat (*Felis margarita* Leche). Priroda 45 no.9:117 S '56.
(MLRA 9:10)

1. Aral'skaya stantsiya Ministerstva zdравookhraneniya SSSR, gorod
Aral'sk.
(Soviet Central Asia--Cats)

ROTSHIL'D, Ye.V.; KRIVOSHEYEV, V.G.

Twigs in winter feeding of the red-backed bank vole *Clethrionomys glareolus* Schreb. [with summary in English]. Zool.zhur. 36 no.9: 1385-1392 S '57. (MIRA 10:10)

1. Aralomorskaya stantsiya Ministerstva zdravookhraneniya SSSR i kafedra zoologii pozvonochnykh Moskovskogo gosudarstvennogo universiteta im. M.L. Lomonosova.

(Moscow Province--Field mice)
(Animals, Food habits of)

ROTSIL'D, Ye.V.

Black saksaul (*Haloxylon aphyllum* Minkw.) groves in the salt-clay plains (takyr). Bot.zhur. 42 no.6:928-930 Je '57. (MIRA 10:7)

1. Aralomorskaya stantsiya Ministerstva zdravookhraneniya SSSR,
g. Aral'sk.

(Zhany-Dar'ya Valley--Saksaul)

ROTSHIL'D, Ye.V.

Rodents as exterminators of the *gypsy* moth in its mass reproduction
nidi. Biol.MOIP. Otd.biol. 63 no.4:129-130 JI-Ag '58 (MIRA 11:11)
(TEREK VALLEY--GYPSY MOTH)
(FIELD MICE)
(ANIMALS, FOOD HABITS OF)

ROTSHIL'D, Ye. V.

Plant succession in the greater gerbil colonies of northern
Kyzyl-Kum [with summary in English]. Biul. MOIP. Otd. biol.

63 no. 5:5-22 S-0 '58

(MIRA 11:12)

(KYZYL-KUM-PLANT SUCCESSION)

(GERBILS)

SOV/20-120-1-56/63

AUTHOR: Rotshil'd, Ye. V.

TITLE: The Influence of the Burrowing Activity of Ellobius talpinus on the Development of Takyr Vegetation (Vliyaniye royushchey deyatel'nosti slepushonki na razvitiye rastitel'nosti takyrov)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 1, pp. 201-203 (USSR)

ABSTRACT: This almost blind rodent can influence the soil development and the vegetation essentially in some cases by its extremely effective burrowing activity. The author describes these phenomena in takyrs of the Yeske-Dar'yalyk valley in the northern Kzyl-Kum desert. There are no such data in publications. With its wide distribution in loamy deserts this animal is most numerous there in the ancient irrigated soils of dry river beds. The margins of the massifs of typical takyrs are colonized, too, in consequence of the remarkable capacity of this animal to penetrate even these especially solid soils. The earth hills thus brought up stretch dozens and hundreds of meters from one depression with vegetation to the other. Old hills are covered by a takyr crust and

Card 1/3

SOV/ 20-120-1-56/63

The Influence of the Burrowing Activity of Ellobius talpinus on the Development of Takyr Vegetation

seem to remain in this form for a long time. No concentration of salt is observed here because of the low proportion of salt in the takyrs. As the underground passages collapse small depressions arise on the takyr surface where rain water is dammed up. Higher plants settle here: Anabasis ramosissima, less A. aphylla (Figure 1). Such depressions can also be caused by other facts. Another stage of settlement is the appearance of Artemisia serotina and Aeluropus litoralis in the midst of Anabasis. At the edges of the depressions Lycium ruthenicum settles, in the center Hulthemia berberifolia and others. The richest vegetation is reached when Haloxylon aphyllum settles in the depressions. (Ref 7). In the shade of its closed heads a thick grass cover arises. In general the amount of vegetation is rather manifold and variable. Contrary to that the vegetation of the wide faint depressions of the takyr plains is very uncomplicated and almost everywhere alike. In the takyrs the rodent mentioned is closely connected with the vegetation of the depressions and favors its development. Other landscapes are not influenced by this animal. The distribution of Ellobius talpinus in Central Asia reaches as far as Kazakhstan and Turkmenia.

Card 2/3

SOV/ 20-120-1-56/63
The Influence of the Burrowing Activity of Ellobius talpinus on the Development of Takyr Vegetation

As to burrowing this species is most active among all other hypogeal animals. Some jerboae, however, as the small earth hare (Alactagulus pygmaeus) can favor the settlement of Anabasis ramosissima in perfectly barren places. There are 3 figures and 9 references, which are Soviet.

PRESENTED: February 3, 1958, by V. N. Sukachev, Member, Academy of Sciences, USSR

SUBMITTED: December 23, 1957

1. Soils--Development 2. Plants--Growth 3. Rodents--Ecology

Card 3/3

ROTSHEL'D, /s. v.

"The geographical distribution of the elementary foci of the plague in the Kara-Kums near the Aral sea." Page 265

Desyatye soveshchaniye po parazitologicheskim problemam i prirodnoochagovym bolezniam. 22-29 Oktjabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Aralamorskaya Antiplague Station

BOZHENKO, A. V., SVISIN, V. N.

"The landscape confining the plague epizootic in the northern Kyzylkum."
Page 267

Desyatoye soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktvabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Aralomorskaya Antiplague Station

SHIL'D, Ya.V.

Journal of sparrow and predatory birds in the desert. Zool.
zhurn. 38 no. 6:935-938 Jan '59. (NIS 12:11)

1. Aral Sea Anti-Plague Station, Ministry of Health of the U.S.S.R.
(Kryl-Kun--Sparrows) (Kryl-Kun--Birds of prey)
(Desert ecology)

KRIVOSHEYEV, V.G.; ROTSHIL'D, Ye.V.; SMIRIN, V.M.

Distribution and numbers of the Persian gazelle and saiga in
northern Kyzyl Kum. Vop.geog. no.48:55-70 '60.

(MIRA 13:7)

(Kyzyl Kum--Gazelles) (Kyzyl Kum--Saiga)

ROTSHIL'D, Ye.V.

Role of trees and shrubs in the formation of the mosaic pattern of
desert vegetation. Bot. zhur. 45 no.12:1750-1770 D '60.

(MIRA 13:12)

(Turan--Desert ecology)

ROTSHIL'D, Ye.V.

Age groups and population dynamics of the steppe tortoise (*Testudo horsfieldi*) in the northern Kyzyl Kum. Biul. MOIP. Otd. biol. 65
no.5:133-134 S-0 '60. (MIRA 13:12)
(KYZYL KUM—TORTOISES)

VARSHAVSKIY, S.N.; ROTSHIL'D, Ie.V.

Effect of the burrowing activity of susliks on the desert vegetation.
Biol. MOIP. Otd. biol. 65 no.5:138-139 S-0 '60. (MIRA 13:12)
(ARAL SEA REGION—SUSLIKS) (DESERT ECOLOGY)

MARIN, S.N.; ROTSHIL'D, Ye.V.

Nocturnal activities of the greater gerbil. Biul. MOIP. Otd. biol.
65 no.5:140 S-0 '60. (MIRA 13:12)

(ARAL SEA REGION--GERBILS)
(KYZYL KUM--GERBILS)

MARIN, S.N.; ROTSHIL'D, Ye.V.

Ecological and epizootiological significance of the nocturnal activity of the greater gerbil (*Rhombomys opimus* Licht.).
Zool. zhur. 40 no. 2:264-268 F '61. (MIRA 14:2)

1. Aral Sea Anti-Plague Station.
(Aral Kara-Kum--Gerbils as carriers of disease)
(Kyzyl Kum--Gerbils as carriers of disease)
(Animals, Habits and behavior of)

ACC NR: AP7001088 (2.2) SOURCE CODE: UR/0439/66/045/005/0751/0763

AUTHOR: Rotshil'd, Ye. V. -- Rotschild, E. V.

ORG: Aral Sea Antiplague Station (Aralomoskaya protivochumnaya stantsiya);
Gus'eyskaya protivochumnaya stantsiya); Aral Department, Moscow Society of
Naturalists (Aral'skoye otdeleniye Moskovskogo obshchestva ispytateley prirody)

TITLE: Method of charting middle scale maps of the settlements of Rhombomys
opimus Licht. when studying natural plague foci

SOURCE: Zoologicheskiy zhurnal, v. 45, no. 5, 1966, 751-763

TOPIC TAGS: mole, mole reproduction, disease vector, plague, rodent, mapping

ABSTRACT: In geographic determinations of Rhombomys opimus Licht. areals,
combined topographic and aerial mapping are recommended. The topographic
mapping should be based on the preexisting maps with scales of 1:100000 or
1:300000, whereas the supplementary air photography should be made from the
altitude of 200 meters. The relative merits of different mapping procedures with
respect to different densities of the Rhombomys opimus population are discussed.
Because Rhombomys opimus is the main plague carrying rodent in Kazakhstan and

Card 1/2

UDC: 599.323.4 Rhombomys+616.981.452:591.526

ACC NR: AP7001088

the Central Asian deserts, the author enters a plea for further development of more precise methods of estimating the rodent population. Orig. art. has: 3 figures. [Based on author's abstract] [WA-50]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 020/

Card 2/2

ROTSHEI 1964.

Habitat concept in ecology. Phil.MOIP.Std.biol. 67 no.4:158-
159 Aug '64. (MIRA 15:10)

(BIOLOGY)

RUSSIAN, N/A.

USSR/Physiology of Plants - Photosynthesis.

I-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10351

Author : Shlyk, A.A., Godneu, T.N., Rotsharb, R.M., Lyakhnovich, Ya.P.

Inst : -

Title : A Study of the Biosynthesis of Two Chlorophyll Components in the Process of Restoration.

Orig Pub : Vestsi Akad Nauk BSSR, Ser. Biyal. n., 1956, No 3, 91-94

Abstract : When $C^{14}O_2$ is assimilated in leaves, whether they are separated from the plant (as in tobacco) or not separated (lilac and aquatic plant (*Ceratophyllum demersum*)), the specific activity of chlorophyll-a (determinable by a B-type device) is approximately three times greater than that of chlorophyll-b. There was no rapid reciprocal conversion of elements of the chlorophyll. Bibliography of eight titles.

Card 1/1

ROTSHIL'D, Ye.V.

New spurge from the region of the Aral Sea and specific features
of its distribution. Bot. mat. Gerb. 21:273-280 '61. (MIRA 14-10)
(Aral Kara-Kum--Spurge)
(Kyzyl Kum--Spurge)

ROTSHIL'D, Ye. V.

Characteristics of the geographical distribution of colonies of the greater gerbil and elementary plague foci in the Aral Kara-Kum.
Zool. zhur. 40 no.5:749-762 '61. (MIRA 14:5)

1. Aral Anti-Plague Station, Aral'sk.
(Aral Kara-Kum--Gerbils as carriers of disease)
(Plague)

ROTSHIL'D, Ye.V.; SMIRIN, V.M.

Relationship between epizootic foci of plague and particular landscape types in the northern Kyzyl Kum. Biul. MOIP. Otd. biol. 66 no.1:5-22 Ja-F '61. (MIRA 14:3)
(KYZYL KUM--GERBILS AS CARRIERS OF DISEASE) (PLAGUE)

ROTSIL'D, Ye.V.

Different ecological groups of desert vegetation in the feeding of
the greater gerbil. Biol. MOIP. Otd. biol., 65 no.5:137 S-0 '60.
(MIRA 13:12)

(ARAL SEA REGION--GERBILS)

(KYZYL KUM--GERBILS)

(ANIMALS, FOOD HABITS OF)

SEMERNINA, A.V.; ROTSHKE, A.A.

Apparatus for the simultaneous automatic recording of the flow
of secretion from the paired parotid glands into the stomach.
fiziol. zhur. [Ukr.] 4 no.2:276-278 Mr-Apr '58. (MIRA 11:5)
(PAROTID GLANDS--SECRETIONS)
(PHYSIOLOGICAL APPARATUS)

KUPRIYANOVA, Z.; ROTSHTEYN, A.

Planning labor productivity in the construction organizations.
Biul. nauch. inform.; trud i zar. plata 4 no.7:7-11 '61.

(MIRA 14:8)

(Construction industry--Labor productivity)

Bulgarian Abrogation, 1944 - 1945. (MIRA 1812)
REV. 10/1945. (MIRA 1812)

ROTSPEYN, A., TYAGAY, YE.

Construction Industry

Postwar rise of the U.S.S.R. construction industry. Vop. ekon. no. 9, Sept. 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195~~2~~³, Uncl.

ROTSHTEYN, Andrey Andreyovich; KORZHINSKIY, D.S., akademik, otv. red.;
RYABCHIKOV, I. [translator]; MERGASOV, G.G., red. izd-va;
GOLUB', S.P., tekhn. red.

[Magmatic facies of ultrabasic igneous rocks of the Toleit series as revealed by the studies of peridotites in Dawros, Connemara (Eire), and Belhelvie, Aberdeenshire (Scotland)]
Magmaticheskie fatsii ul'traosnovnykh izverzhennykh porod toleitovoi serii; na primere peridotitov Davrosa, Konnemara (Eire) i Bel'khelvi, Aberdinshaera (Shotlandiia). Moskva, Izd-vo Akad. nauk SSSR, 1962. 42 p. (MIRA 15:11)
(Ultrabasite)

SYTNIK, Ivan Panteleymonovich, kand. tekhn.nauk, dots.; KHAZAN,
Moisey Yakovlevich, kand. tekhn. nauk, dots.;
KUCHERENKO, Konstantin Rodionovich, kand. tekhn.nauk,
dots.; KASPIN, Lev Abramovich, kand. ekon. nauk;
ANFIMOV, Sergey Aleksandrovich, dots.; MASALOV, Grigoriy
L'vovich, dots.; SALIVON, Ivan Ivanovich, assistant;
GIROVSKIY, V.F., doktor ekon. nauk, prof., retsenzent;
GUREVICH, M.S., ekon., retsenzent; ROTSHEYN, A.G., kand.
ekon. nauk, retsenzent; VAYNSHEYN, B.S., kand. ekon.
nauk, nauchn. red.; GERASIMOVA, G.S., red.izd-va;
KODIONOVA, V.M., tekhn.red.

[The economics of construction] Ekonomika stroitel'stva.
[By] I.P.Sytnik i dr. Moskva, Gosstroizdat, 1963. 229 p.
(MIRA 17:1)

R O T S H T E Y N, A. G.

#47/2955

PLANS I BOOK RELEVATION

25(5)30(5)

Assoc. Institute of Economics and Statistics, Leningrad

Problemy razvitiya ekonomicheskoy effektivnosti kapital'nogo vneseniya i...
sberzhitel'nykh ekonomiki i organizatsii stroitel'stva i...
tatshe stroitel'nogo proyektirovaniya (Problems of Investment Economics and...
Organization of Construction Work and Planning) Moscow, Gosstroyizdat, 1959. 87 p. (Series:
This: Trade, 779. W) Karta tily izmerena. 2,000 copies printed.

Additional Information: USSR. Gosstatizvestiya komitet po dani...
statisticheskoy KSSR. Moshno-issledovatel'skiy institut ekonomiki stroitel'stva,
i ekonomicheskoy obshchestvennoy nauki. Moscow, 1959. 87 p. (Series:
Statistika ekonomiki i organizatsii.)

Eds.: B. I. Kuznetsov, G. A. Dorzhik, A. S. Ginzburg, S. A. Yefremov, I. A. Kuz...
netovich, A. G. Kotshchey, V. V. Uspenskiy, M. A. Vainor, E. I. Zhuravskiy,
and A. N. Zhukovskiy. Tech. Ed.: P. G. Gilyanov. Editorial Board: A. G. Kuznetsov,
V. I. Kuznetsov, G. V. Kodova (Resp. Ed.), Sement' Ye. I. Kuznetsov, Professor, V. I.
Vayns, Professor, S. P. Yelshchikov, Professor, V. G. Beridzovich, Professor,
I. K. Demoyevskiy, Professor, S. P. Zharovskiy, Professor, S. Ye. Kuznetsov,
Professor, P. V. Kuznetsov, Professor, M. S. Kuznetsov, Professor, I. I.
Kuznetsov, Professor, M. A. Vainor, Professor, B. A. Zolotarev, Professor,
M. A. Zolotarev, Professor, V. I. Kuznetsov, Professor, B. A. Zolotarev, Professor,
I. V. Kuznetsov, Professor, V. I. Kuznetsov, Professor, B. A. Zolotarev, Professor,
I. V. Kuznetsov, Professor, M. S. Demoyevskiy, I. Ye. Izudin, Docent, S. S. Raynits,
Candidate of Technical Sciences.

NOTES: This collection of articles is intended for staff members of construc...
tion organizations, design bureaus, and scientific research establishments as
well as for faculty members and students of institutions of higher education.

COVERS: This collection of reports on construction problems was originally...
presented and discussed at a scientific-technical conference held in Moscow
in February 1958 under the auspices of the Moscow Institute of Economics and Statistics
Institute and other government and scientific institutions. Possibilities
of increasing economic efficiency of construction investments by improving methods
of organizing building construction projects are reviewed. Results of con...
struction and design organizations to reduce the costs of con...
struction and building operations, to introduce economic accountability and
Planning in lower level construction units, to increase the productivity of
labor, and to boost work and planning efficiency are analyzed. Problems in
preparing estimates, making financial forecasts, and financing construction
projects are discussed. No references are given.

AMSTROVITSKIY, M. A. Planning of Operations and Economic Accountability
in Lower Level Construction Units 574

Podder, G. P., and S. M. Tolstykh. About the Economic Accountability in
the Constructor's Unit 588

Artemchik, N. A. Economic Accountability in a Construction Administration 595

Kobalish, A. G. Experience Gained in Planning Made by Construction Units
at Lower Levels and Organizations of the Estonian SSR 601

Temernik, M. B. Problems of Improving Economic Accountability in Con-
struction Organizations 610

Mitshchukov, A. G. Problems of Profitability and of Consolidating Economic
Accountability in Construction Undertakings 614

Kislovina, E. B. Problems of Control of the Use of Construction Minerals 625

Raynits, S. I. Ways of Improving Methods of Determining Estimated Con-
struction Cost 629

Card 10/11

KUPRIYANOVA, Z.V.; ROTSHEYN, A.G., kand. ekonom. nauk; STOMAKHIN, V.I.
Prinimali uchastiye: MEL'NIKOVA, T.A., inzh.; SEROBABOVA, R.I.,
inzh.; BOGDIA, S.L., red. izd-va; IGNAT'YEV, V.A., tekhn. red.

[Planning labor productivity in construction] Planirovanie pro-
izvoditel'nosti truda v stroitel'stve; nauchnoe soobshchenie.
Moskva, Gos.izd-vo lit-ry po stroit., arkhit., i stroit. mate-
rialam, 1961. 75 p. (MIRA 15:1)

1. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva
Akademii stroitel'stva i arkhitektury SSSR (for Rotshteyn,
Kupriyanova, Mel'nikova, Serobabova). 2. Nauchno-issledovatel'-
skiy ekonomicheskii institut Gosudarstvennogo ekonomicheskogo
soveta SSSR (for Stomakhin).

(Construction industry--Labor productivity)

ROTSHEYN, A.G., ekonomist

Profitableness and consolidation of business accounting in
the construction industry. Trudy MIEI no.14:614-624 '59.
(MIRA 13:1)

1. Nauchno-issledovatel'skiy institut no.200 Ministerstva
stroitel'stva RSFSR.
(Construction industry--Accounting)

KRASNOV, Izrail' Davydovich, kand.ekonom.nauk; ROTSHEYN, A.G., kand.
ekonom.nauk, red.; KUTSENOVA, A.A., red.izd-va; TEMKINA,
Ye.L., tekhn.red.

[Economics of the construction industry of the U.S.S.R.] Eko-
nomika stroitel'noi industrii SSSR. Izd.2-e, perer. i dop.
Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.mate-
rialam, 1960. 319 p. (MIRA 13:7)
(Construction industry)

ROTSHTEYN, A.G.

Consolidating business accounting in construction organizations
Stroi. prom. 35 no.5:38-41 My '57. (MIRA 10:6)
(Construction industry--Accounting)

STARCHEVSKIY, V.I., ; MOGILYEVSKAYA, A.I.; ROTSHTEYN, A.G., redaktor;
BOROVNEYEV, N.K., tekhnicheskij redaktor.

[Labor productivity and ways of increasing in] Proizvoditel'nost'
truda i puti ee povysheniia. Moskva, Gos.izd-vo lit-ry po stroit. i
arkhit. 1956. 40 p. (Povyshenie proizvoditel'nosti truda v stritel'stve)
(MIRA 10:4)

(Labor productivity)

NEYEVIN, Ye.A.; ROTSHTEYN, A.G.; SHUTSKIY, P.I.

[Work practice of brigades organized on a commercial basis at construction sites of the metallurgical industry] Opyt raboty khozraschetnykh brigad na stroikakh metallurgicheskoi promyshlennosti. Moskva, Gos. izd.lit. po stroitel'stvu i arkhitekture, 1953. 104 p. (MLRA 7:11D)

ROTSHTYIN, A.G., inzhener.

Experience in organizing accounting on lower levels. Nov.tekh.1
pered.op.v stroi. 19 no.10:18-20 O '57. (MIRA 10:11)
(Minsk--Construction industry--Accounting)

BOGOMOLOV, Aleksandr Grigor'yevich; STOMAKHIN, Vitaliy Iosifovich;
CHITOVA, L.N., red.

[Increasing labor productivity in construction] Povyshenie
proizvoditel'nosti truda v stroitel'stve. Moskva, Stroi-
izdat, 1964. 94 p. (MIRA 17:8)

Methods of Measuring Labor (Cont.)

480

progress in the further growth of labor productivity attained through mechanization and automation of labor tasks, the electrification and introduction of chemical processes into production, and the industrial utilization of atomic energy. He also analyzes existing technical shortages and emphasizes the importance of new techniques to the rapid growth of labor productivity. Theoretical bases and practical methods for measuring labor productivity are summarized and inadequacies are pointed out. A general analysis of factors of labor productivity dynamics is presented in the concluding chapter. No personalities are mentioned. There are 8 Soviet references.

TABLE OF CONTENTS:

Ch. I. Labor Productivity and its Significance	3
1. Principal economic objective of the USSR and labor productivity	3
2. Factors involved in increasing the productivity of labor	3
3. Labor productivity in the USSR and in capitalistic countries	12

Card 2/4

Methods of Measuring Labor (Cont.)

480

Ch. II. The Development and Use of the Technical Resources of Industry	16
1. Main trends of technical progress in the USSR	16
2. Shortcomings in the technical equipping and utilization of technology	26
3. Labor productivity and technology in the Sixth Five-Year Plan	31
Ch. III. Organization of Labor and Production	
1. Growth of the cultural level and qualifications of workers	39
2. National economic prerequisites for effective organization of production	39
3. Objectives of intraplant organization of production	44
Ch. IV. Theoretical Bases for Measuring Labor Productivity	50
Ch. V. Natural Method of Measuring Labor Productivity. Methods of Conventional Accounting Units	54
1. Principles and techniques employed in the natural method	62
2. Methods of conventional accounting units	62
Card 3/4	65

16(2)

SOV/2-59-4-6/14

AUTHOR: Rotshteyn, A.

TITLE: Methods of Measuring Labor Efficiency in the Industry of Administrative Economic Areas

PERIODICAL: Vestnik statistiki, 1959, Nr 4, pp 39-49 (USSR)

ABSTRACT: The author describes the statistical method applied in calculating industrial production in the Soviet Union. He states that the method of "price results" (tsekovyye itogi) now has far greater importance because it can be applied to the decentralized industrial areas, although it was proposed by S. G. Strumilin 25 years ago. This method consists of calculating efficiency or productivity of work by arithmetic indexes obtained by dividing gross production of a given enterprise by the average number of workers employed by it. For the individual enterprise, a combined index can be worked out for the whole industry to which this enterprise belongs and, from the industrial index, to the combined index for the whole industrial area. The author

Card 1/2

KUPRIYANOVA, Z.; ROTSHTEYN, A.

Measuring labor productivity in construction. *Biul.nauch. inform.:*
trud i zar. plata 4 no.4:3-7 '61. (MIRA 14:6)
(Construction industry—Labor productivity)

ROTSHTEYN, A.A.; VOROB'YEVA, O.A. [translator]

Phase relationships in the peridotites of Dawros (Ireland) and
Belhelvie (Scotland). Izv.AN SSSR.Ser.geol. no.3:69-86 Mr '61.
(MIRA 15:2)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR, Moskva.
(Dawros, Ireland--Peridotite)
(Belhelvie, Scotland--Peridotite)

SVETLOV, Vasilii Sil'vestrovich; ROTSHEYN, A.G., kand. ekon. nauk,
nauchnyy red.; BOGINA, S.L., red. izd-va; MIKHEYEVA, A.A.,
tekhn. red.

[Technical progress and working personnel in construction]
Tekhnicheskii progress i rabochie kadry v stroitel'stve. Mo-
skva, Gosstroizdat, 1962. 107 p. (MIRA 16:1)
(Construction industry)

GOVOROV, Vadim Pavlovich; ROTSHEYN, A.G., kand. ekon. nauk, nauchnyy red.; ZHURAVLEV, B.A., inzh., nauchnyy red.; GERASIMOVA, G.S., red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Economics and organization of sanitary-engineering work] Ekonomika i organizatsiia sanitarno-tekhnicheskikh rabot. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 215 p. (MIRA 15:2)

(Sanitary engineering)

ROTSHTEYN, Aleksandr Grigor'yevich; PAK, Yuriy Yefimovich; PROFERANSOV,
D.P., nauchnyy red.; GERASIMOVA, G.S., red. izd-va; GOL'BERG,
T.M., tekhn. red.

[For high labor productivity in construction] Za vysokuiu proiz-
voditel'nost' truda na stroike. Moskva, Gos. izd-vo lit-ry po
stroit., arkhit. i stroit. materialam, 1961. 37 p.

(MIRA 15:3)

(Construction industry--Labor productivity)

ROTSHTEYN, Aleksandr Grigor'yevich; SMIRNOV, Boris Konstantinovich;
PAK, Yuriy Yefimovich; KRIVTSOV, V.I., red.; KUZ'MIN, V.A., red.;
FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Problems of the economics of labor; lecture transcript] Voprosy
ekonomiki truda; stenogramma lektzii. Leningrad, 1961. 32 p.
(Leningradskii Dom nauchno-tekhnicheskoi propogandy. Seriya:
Stroitel'naia promyshlennost') (MIRA 14:7)
(Construction industry--Labor productivity)
(Wage payment systems)

ROTSHEYN, Aleksandr Isaakovich; SHENTSI, Ye.M., red.

[Studies on the industrial statistics of the U.S.S.R.]
Ocherki promyshlennoi statistiki SSSR. Moskva, Izd-vo
"Statistika," 1964. 517 p. (MIRA 17:5)

ROTSHEYN, Aleksandr Isaakovich, prof.; AZAROV, E.K., red.; LEVONEV-
SKAYA, L.G., tekhn.red.

[What is the production fund of an enterprise] Chto takoe
proizvodstvennye fondy predpriatia. Leningrad, Lenizdat,
1960. 48 p.

(MIRA 14:5)

(Capital)

ROTSHTEYN, A. YA.

124-58-6-7276

Translation from: Referativnyy zhurnal, Mekhanika 1958 Nr 6, p 132 (USSR)

AUTHOR: Rotshteyn, A. Ya.

TITLE: A Stress-and-strain Measuring Device Employing Electrical Wire Strain Gages (Apparatura dlya izmereniya deformatsiy ili usiliy s pomoshch'yu provolochnykh elektrotenzometrov)

PERIODICAL: Sb. tr. Vses. n.-i. in t gidrotekhn. i san.-tekhn. rabot, 1954, Nr 5, pp 54-68

ABSTRACT: A study is made of the peculiarities of the use of wire strain gages and of potentiometric and bridge-type circuits. Attention is given also to the components of the apparatus: 1) an ordinary capacitance-resistance type amplifier for investigation of dynamic processes; 2) an amplifier with an amplitude-modulated carrier frequency. The peculiarities of the detection process in connection with the use of carrier-frequency amplifiers are discussed. Bibliography: 7 references.

N. I. Chernyak

Card 1/1 1. Stress analysis--Testing equipment
2. Strain gages--Applications

132416-65 EWT(1) -GW

ACCESSION NR: AT5004724

8/2785/63/000/016/011/0116

15

B+1

AUTHOR: Rotshteyn, A. Ya.

TITLE: Standard set of reference frequencies for nuclear precession magnetometers

SOURCE: USSR. Gosudarstvennyy geologicheskyy komitet. Osoboye konstruktorskoye byuro. Geofizicheskoye priborostroyeniye, no. 16, 1963, 111-116

TOPIC TAGS: magnetometer¹⁰, nuclear precession, nuclear magnetometer, frequency divider, frequency meter/ AYAFM^u

ABSTRACT: It is shown that one shortcoming of nuclear-precession magnetometers in which recordings of the measured frequency and a standard frequency are compared on a single tape, namely that it is necessary to use in this method a large number of quartz resonators, which makes it expensive and cumbersome (a resonator for every 50 cps), can be eliminated by providing a reference set of standard frequencies from a single quartz resonator, using a frequency divider and a series of tuned networks. Two methods for such a set are described, one based on using special mixers, the output of each providing only one summary or difference component, and the second consisting in choosing the mixed frequency such that the frequency dif-

Card 1/2

L 32416-65

ACCESSION NR: AT5004724

ference is large enough to ensure good filtering with the aid of very simple electric filters. Block diagrams for both systems are presented. The output of such a system can contain a set of frequencies whose ratio to the fundamental ranges from 5 to 14. Such generators can be built in the form of separate attachments to existing instruments, or else incorporated in the magnetometers. They are usable not only in magnetometers based on the principle of free precession of the nuclei, but on quantum magnetometers with continuous signals, and can be used for broadband measurements of the magnetic field with inertial frequency meters, which provide a high interference immunity. Use of such standard-frequency generators in several Soviet magnetometers is described, with particular attention to AYAPM-4. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, EC

NR REF SOV: 008

OTHER: 000

Card 2/2

ROTSHEYN, A. Ya.

"Principles in Designing Solenoidal Elements of Nucleus-resonance Magnetometers for Geological Exploration"

"Nucleus-resonance Method of Measuring Components of the Earth's Magnetic Field and Its Application to Magnetic Exploration" (with V. S. TSIREL')

(New Developments in the Methods and Techniques of Geological Exploration)
Leningrad, Gostoptekhizdat, 1958. 423 p. (Series: Its: Sbornik trudov I)

AUTHORS: Mel'nikov A. V. Morozov A. A. 57-28-4-36/39
Rotshteyn A. Ya. Skripov, F. I.
Smirnov S. V.

TITLE: A Method of Free Nuclear Induction for Measuring Weak
Magnetic Fields (Metodika svobodnoy yadernoy induktsii dlya
izmereniya slabykh magnitnykh poley)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki. 1958. Vol. 28, Nr 4,
pp 910-912 (USSR)

ABSTRACT: A laboratory apparatus for the measurement of weak
magnetic fields according to the method of free nuclear
induction was here set up and tested. The fundamental
data of this apparatus are given here. The sender: the
proton-resonance in distilled water ($k=0.23483$ Gauss/kilo-
cycles, $T_2 \approx 3$ sec) was used. The receiving coil had
8000 windings and formed part of the resonance-circuit
with a figure of merit of about 30 and a natural frequency
variable around 2 kilocycles. The auxiliary field was
produced by a one-layered solenoid of a square cross sec=

Card 1/3

A Method of Free Nuclear Induction for
Measuring Weak Magnetic Fields

57-28-4-36/39

tion. It was possible to use an amperage of up to 15 A in the case of 1 mm wire diameter, which guaranteed an $H^* = 100$ Gauss. The amplifier: from the input circuit the signal proceeds to the input of a three-cascade-R C amplifier with pentodes. An amplification-factor of about 10^6 was usually used. The band width of the amplifier is about 3 kilocycles, the effective band for the noise is determined by the circuit and is about 70 cycles. The observation of the free nuclear induction: When the signal is after the amplifier transmitted across a cathode follower to a loop-oscillograph, the envelope curve of the signal is obtained on the picture in the case of a low velocity of the film. At a high velocity it is also possible to dissolve individual oscillations. For the exact frequency-measurement of the free nuclear induction the method of beating with the standardized frequency of 2142,3 cycles was employed. The measurement of the field-gradients: When 2 coils of a static-free sender are fastened in points, where the magnetic field strength is different, due to the frequency difference of the precession in the signal of nuclear induction itself a beating forms whose frequency is a measure for the field-difference. The

Card 2/3

A Method of Free Nuclear Induction for
Measuring Weak Magnetic Fields

57-28-4-36/39

management of the Scientific Research Institute for Metrology and Yanovskiy, B. M., Professor, made it possible to perform the experiments in the rooms of the Magnetic Laboratory of the VNIIM in Kavgolovo. There are 1 figure and 10 references.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta (Leningrad, Scientific Research Institute for Physics of the State University). Vsesoyuznyy institut metodiki i tekhniki razvedki Ministerstva geologii i okhrany nedr (All-Union Institute for Geological Prospecting Methods and Techniques at the Ministry for Geology and Protection of Mineral Resources)

SUBMITTED: October 11, 1956

Card 3/3

SOV/169-60-1-870

Translation from: Referativnyy zhurnal, Geofizika, 1960, Nr 1, p 119 (USSR)

AUTHORS: Rotshteyn, A.Ya., Tsirel', V.S.

TITLE: The Measurement of All the Elements of the Geomagnetic Field by the Nuclear Resonance Method

PERIODICAL: V sb.: Novoye v metodike i tekhn. geologorazved. rabot. 2. Leningrad, 1959, pp 47 - 56

ABSTRACT: The author proposes a method for measuring all the elements of the earth's magnetic field (the total vector T , the vertical and horizontal components Z , X , Y , the dip I , and the angle of magnetic declination D) by means of a nuclear resonance device having a transducer in Helmholtz rings; the device guarantees the absoluteness of the measurements, their high accuracy, the absence of drift and temperature instabilities, and the facility of transmitting the results by radioengineering means. It is a peculiarity of the method, that the accurate measurements of the angles are replaced by measurements of the moduli of vectors

Card 1/2

(V)

SOV/169-60-1-870

The Measurement of All the Elements of the Geomagnetic Field by the Nuclear Resonance Method

of magnetic fields which are induced in Helmholtz rings by two opposite directions of the current. The rings are oriented in different ways in dependence on the element being determined. The computation formulae for determining the elements of the field from the measured vectors are added, and the errors possible in determining the quantities D and I are computed.

L.N. Korenevskiy



Card 2/2

SOV/49-59-7-17/22

AUTHORS: Rotshteyn, A. Ya., Tsirel', V. S.

TITLE: Some Results of Work with a Nuclear Magnetometer

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 7, pp 1070-1072 (USSR)

ABSTRACT: The magnetometer AYAPM-4-VITR (Fig 1) for magnetic prospecting was devised by the All Union Scientific Research Institute of the Method and Technology of Prospecting (VITP). The apparatus consists of three parts: the gauge, the electronic power pack and the auto-recorder. It can be used for the measurements of the absolute modulus of the vector T . Its accuracy is $\pm 2\gamma$, the duration of one measurement is 2 sec and the measuring interval is over 10 sec. Fig 2 illustrates the absolute values of T as compared with those of ΔZ in the Leningrad area. Fig 3 shows the difference obtained when another measurement of

Card 1/2

SOV/49-59-7-17/22

Some Results of Work with a Nuclear Magnetometer

It was made on its return journey. There are 3 figures and 5 references, of which 3 are Soviet and 2 are English.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki (All Union Scientific Research Institute of Methods and Technology of Prospecting)

SUBMITTED: July 21, 1958.

Card 2/2

S/263/62/000/011/021/022
1007/1207

AUTHOR: Rotshteyn, A. Ya.

TITLE: Absolute nuclear-resonance digital geomagnetometer

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 11, 1962, 60, abstract 32.11.438. "Tr. Vses. n.-i. in-ta metodiki i tekhn. razvedki". Collection no. 3, 1961, 218-227

TEXT: Description is given of the АЯЦМ-5-ВИТР(АYaTsM-5-VITR) digital magnetometer working on the principle of free nuclear induction. The error in absolute and relative measurements is ± 1 gamma. The measuring range is 12000 gamma. The device contains a quick-acting frequency meter working on the principle of electronic counting of the number of signal periods of nuclear precession, over a certain definite time range, by means of special quartz clocks. The magnetometer transducer (probe) is noise-proof, and changes in its orientation do not cause measuring errors. The measurement results are recorded on paper tape in the form of a 7-digit number. The device may be fed either from an a.c. network or from the aircraft's electric-current generator. Power consumption is 300 w; over-all weight of the device without rectifier is 35 kg. There are 5 figures and 6 references.

[Abstracter's note: Complete translation.]

Card 1/1

ROTSHEYN, A.Ya.

Network of standard frequencies for nuclear precession magnetometers.
Geofiz. prib. no.16:111-116 '63. (SIRA 17:10)

1. Leningradskoye otdeleniye Instituta zemnogo magnetizma, ionosfery
i rasprostraneniya radiovoln AN SSSR.

BLAGOVESHCHENSKAYA, Ye.E.; GOL'TSMAN, F.M.; ROTSHEYN, A.Ya.

Optimal method for measuring the frequency of free nuclear
precession in the presence of noise, Geomag. i aer. 5 no.3:
554-562 My-Je '65. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy universitet i Institut zemnogo
magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR, Leni-
gradskoye otdeleniye.

L 54848-65 ENT(1)/FCC/EEC(t)/ Po-4/Pi-4 GW

ACCESSION NR: AP5014118

UR/0203/65/005/003/0554/0562
550.380(018)

AUTHORS: Blagoveshchenskaya, Ye. E.; Gol'tsman, F. M.; Rotshteyn, A. Ya.

30
29
B

TITLE: Optimum method for measuring the frequency of free nuclear precession in the presence of noise

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 3, 1965, 554-562

TOPIC TAGS: probability theory, statistical analysis, signal modulation, signal noise ratio, signal separation, magnetic field

ABSTRACT: Using statistical methods, the mathematical algorithm was obtained for optimum treatment of data from free nuclear precession signal measurements. The recorded signal is divided into the useful and the noise components, $y(t) = f(t) + n(t)$, and the component f is expressed by

$$f(t) = Ue^{-\alpha t} \sin(\Omega t + \psi)$$

where Ω is the signal frequency and ψ is the phase shift. It is assumed that $y(t)$ is measured discretely with intervals $T = 1/\Delta t$. The first approximation of the probability function $L(\Omega, U, \alpha, \psi)$ is given by

Card 1/3