MITAISHVILI, A.A., kand.ekonom.nauk; VUL'FSON, M.S., kand.ekonom.nauk;
AZROVA, A.G., red.

[Economy of river transportation of freight] Ob ekonomichnosti
rechnykh perevozok. Moskva, TSentr.nauchno-issle.in-t ekon.
i ekspluatatsii vodnogo transp., 1959. 92 p.   (MIRA 12:7)
(Inland water transportation)

MITAISHVILI, A.; kand.ekonom.nauk

Role of transportation in the creation of a national product and a national income. Mech.transp. 19 no.9:47-53 S '60.

(Economics) (MIRA 13:9)

MITAISHVILI, A., kand.ekon.nauk

Economic efficiency of capital investments in river transportations
and ways to establish it. Rech. transp. 20 no.5:46-52 My '61.
                                                    (MIRA 14:5)
                        (Capital investments)
              (Inland water transportation—Finance)

MITAISHVILI, A.; ORLOV, D.

Role of river transportation in the consolidated transportation system of the U.S.S.R. Rech. transp. 20 no.10:3-8 O '61.

(MIRA 14:9)

1. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta ekonomiki i ekspluatatsii vodnogo transporta (for Mitaishvili).
2. Glavnyy spetsialist Gosudarstvennogo ekonomicheskogo soveta Soveta Ministrov SSR (for Orlov).

(. Inland water transportation)

MITAISHVILI, Aleksandr Avgustovich; SOROKO, Ya.I., red.;
AIROSHCHENKO, L.Ye., tekhn. red.

[United deep water transportation system] Edinaia gluboko-
vodnaia. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v
zhizni, nauke, tekhnike. XII Seriia: Geologiia i geogra-
fiia, no.19)   (MIRA 17:1)

MITAISHVILI, Aleksandr Avgustovich; ORLOV, D.A., retsenzent;
KHACHATUROV, T.S., retsenzent; NEZNANOV, V.I., red.izd-
va; BODROVA, V.A., tekhn. red.

[Problems in developing inland water transportation in
the U.S.S.R.] Problemy razvitiia vnutrennego vodnogo trans-
porta SSSR. Moskva, Izd-vo "Rechnoi transport," 1963. 361 p.
                                        (MIRA 17:2)

MITAISHVILI, A., doktor ekonom. nauk

The scope of the use of river transportation. Rech. transp.
24 no. 10:23-27 '65.
(MIRA 18:12)

KITAISHVILI, Sh.L.

Unusual foreign body at the root of the tongue. Vest.oto-rin. 19
no.3:115 My-Je '57
(KIRA 10:10)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. - deystvitel'nyy
chlen AMN SSSR prof. B.S.Preobrazhenskiy) lechebnogo fakul'teta
II Moskovskogo meditsinskogo instituta.
(TONGUE--FOREIGN BODIES)

MITAISHVILI, Sh.L.

Hemangiolymphangioma of the ethmoidal labyrinth. Vest.oto.-rin.20
no.4:97-98 Jl-Ag '58
(MIRA 11:7)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. -deystvitel'nyy
chlen AMN SSSR prof. B.S. Predbrazhenskiy) lechebnogo fakul'teta
II-go Moskovskogo meditsinskogo instituta.
(ETHMOID BONE, neoplasms
hemangiolymphangioma (Rus))
(ANGIOMA, case reports
hemongiolymphangioma of ethmoid labyrinth (Rus))

YEKHANIN, Yevgeniy Vladimirovich; ZHADNOVA, Vera Petrovna; MITALEV,
Igor' Aleksandrovich; UMANTSEV, D.F., red.; GRIN', Ye.R.,
tekhn. red.

[Methods for the quantitative study of the tectogenesis of
platform structures of the 3d order based on seismic prospect-
ing data]Metod kolichestvennogo izucheniia tektogeneza platfor-
mennykh struktur III poriadka po materialam seismorazvedki.
Red. D.F.Umantsev. Novosibirsk, Sibirskii nauchno-issl. in-t
geol. geofiziki i mineral'nogo syr'ia, 1961.   29 p.
                                                  (MIRA 15:12)
    (Geology, Structural)   (Seismic prospecting)

32512

16, 6100 (2403)

S/044/61/000/011/035/049
C111/C444

AUTHOR: Mitalauskas, A. A.

TITLE: On the multidimensional local limit theorem for lattice distributions

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1961, 2-3, abstract 11V10.(Tr. An Lit SSSR, 1960, B2, (22), 3-14)

TEXT: For the sequence $\xi^{(k)} = (\xi_1^{(k)}, \ldots, \xi_s^{(k)})$, $k = 1, 2 \ldots$ of independent stochastic s-dimensional vectors, the components of which only take integer values, let:

$$M\xi_i^{(k)} = a_i^{(k)}, \quad b_{ij}^{(k)} = M\left\{\left(\xi_i^{(k)} - a_i^{(k)}\right)\left(\xi_j^{(k)} - a_j^{(k)}\right)\right\}.$$

$$\sum_{k=1}^{n} \xi^{(k)} = \zeta^{(n)} = \left(\zeta_1^{(n)}, \ldots, \zeta_s^{(n)}\right).$$

$$P\left\{\zeta_1^{(n)} = z_1, \ldots, \zeta_s^{(n)} = z_s\right\} = p_n(z_1, \ldots, z_s).$$

$$M\zeta_i^{(n)} = A_i^{(n)}, \quad B_{ij}^{(n)} = M\left\{\left(\zeta_i^{(n)} - A_i^{(n)}\right)\left(\zeta_j^{(n)} - A_j^{(n)}\right)\right\}.$$

Card 1/3

On the multidimensional local limit ...   32512
S/044/61/000/011/035/049
C111/C444

It is said that for the sequence $\xi^{(1)}$, $\xi^{(2)}$, ... the local limit theorem holds, if for $n \to \infty$, uniformly with respect to

$z_1, \ldots, z_s$ $\sqrt{B_{11}^{(n)} \ldots B_{ss}^{(n)}}$ $P_n(z_1, \ldots, z_s) - p(z_1', \ldots, z_s') \to 0$

where

$$p(x_1, \ldots, x_s') = (2\pi)^{-\frac{s}{2}} \Lambda^{-\frac{1}{2}} \exp \left\{ \frac{(B^{-1}x, x)}{2} \right\}$$

$z_i' = \dfrac{z_i - A_i^{(n)}}{\sqrt{B_{ii}}}$, B is the matrix of the covariations of the stochastic variables $\xi_1^{(n)}, \ldots, \xi_s^{(n)}$, Λ is the determinant of B. Further on it is said that for the sequence $\xi^{(1)}$, $\xi^{(2)}$ the local limit theorem holds the strong sense, if for every sequence, only differing from the given one by a finite number of terms, the local limit theorem holds. Under these suppositions and with these notations the following result is stated: If

$B_{ii}^{(n)} \to \infty$ for $n \to \infty$, $i = 1, \ldots, s$, $\Lambda > c$, where $c > 0$ not

Card 2/3

On the multidimensional local limit ...   S/044/61/000/011/035/049

32512

C111/C444

depending on n, and if

$$\frac{1}{b_{ii}^{(k)}} \sum_{|j_i - a_i^{(k)}| < N} (j_i - a_i^{(k)})^2 \; P\left\{ \xi_j^{(k)} = j_i \right\} \to 1$$

for $N \to \infty$, $i=1,\ldots,s$, uniformly with respect to k, then in order the local limit theorem in the strong sense to hold for the sequence $\xi^{(1)}$, $\xi^{(2)}$, it is necessary and sufficient that for all integers q and for all vectors $(a_1,\ldots,a_s)$ with integer components $a_1,\ldots,a_s$ $(a_1,\ldots,a_s q) = 1$ there holds

$$\sum_{k=1}^{\infty} \min_{0 \leqslant m < q} P\left\{ a_1 \xi_1^{(k)} + \ldots + a_s \xi_s^{(k)} \not\equiv m(\bmod q) \right\} = \infty.$$

[Abstracter's note: Complete translation.]

Card 3/3

L 18531-63   EWT (d)/BDS/FCC(w)   AFFTC/IJP(C)

ACCESSION NR: AT3002173

AUTHOR: Mitalauskas, A. A.

S/2924/61/001/01-/0131/0139

TITLE: A local limit theorem in the case of a stable limit distribution

SOURCE: Litovskiy matematicheskiy sbornik. v. 1, no. 1-2, 1961, 131-139

TOPIC TAGS: local limit theorem , random variable , stable law

ABSTRACT: Consider the sequence of independent random variables $\xi_1, \xi_2, \ldots,$ $\xi_n, \ldots$ (1) with distribution function $F_1(x)$, $F_2(x), \ldots, F_n(x), \ldots$ and assume that the sequence $\{F_k(x), k = 1,2,\ldots\}$ belongs to the domain of attraction of the stable law $G_\alpha(x)$, i.e. there exist constants $B_n > 0$ and A_n such that

$$P\left\{ \frac{1}{B_n} \sum_{k=1}^{n} \xi_k - A_n < x \right\} \to G_\alpha(x)$$
(2)

as $n \to \infty$.

For the sequence (1) taking on only integral values, the author says that a local limit theorem holds if, as $n \to \infty$ uniformly in m $(-\infty < m < \infty)$, then

Card 1/3

L 18531-63

ACCESSION NR: AT3002173

$$B_n P\left\{\sum_{k=1}^{n} \xi_k = m\right\} - g\left(\frac{m - A_n}{B_n}\right) \to 0, \tag{3}$$

where $g(x)$ is the density corresponding to the distribution function of the stable law $G_\alpha(x)$. If (3) is satisfied for any sequence of integral random variables differing from (1) in a finite number of terms, then sequence (1) satisfies a local limit theorem in stronger form. Theorem 2. Under the conditions

$$a) \quad \frac{1}{n}\sum_{k=1}^{n} F_k(x) = \begin{cases} \left[c_1 a_n^\alpha + \alpha_1(n, x)\right]\frac{1}{|x|^\alpha}, & x < 0, \\ 1 - \left[c_2 a_n^\alpha + \alpha_2(n, x)\right]\frac{1}{x^\alpha}, & x > 0, \end{cases} \tag{4}$$

where $c_1 > 0$, $c_2 > 0$, $c_1 + c_2 > 0$, $\alpha_1(n, x) \to 0$ as $n \to \infty$, $x \to -\infty$, and $\alpha_2(n, x) \to 0$ as $n \to \infty$ and $x \to \infty$; K does not depend on k; then the variables

b) $M|\xi_k|^\delta < K$, where $\delta < \alpha$, and K

$\frac{\xi_k}{B_\alpha}$ $(k = 1, 2, \dots)$ are infinitely small, and the sequence $\{F_k(x), k = 1, 2, \dots\}$ belongs to the domain of normal attraction of the stable law $G_\alpha(x)$.

Card 2/3

L 18531-63

ACCESSION NR: AT3002173

in order for the sequence (1) to satisfy a local limit theorem of stronger form, it is necessary and sufficient that for all integers $q \geq 2$,

$$\sum_{k=1}^{n} \min_{0 < m < q} P\left\{ \xi_k \not\equiv m \pmod{q} \right\} = \infty. \qquad (1)$$

hold. The author thanks I. Kubilyus and V. Statulyavichus. Orig. art. has: 6 formulas.

ASSOCIATION: Institut fiziki i matematiki, Akademii nauk Litovskoy SSR (Institute of Physics and Mathematics, Academy of Sciences, Lithuanian SSR)

SUBMITTED: 15Jan61

DATE ACQ: 10May63

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 000

Card 3/3

S/052/62/007/002/002/005
C111/C222

−7

AUTHOR: Mitalauskas, A.A.

TITLE: On the local limit theorem for stable limit distributions

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, v.7, no. 2, 1962, 185-190)

TEXT: Let   (1)

$$\xi_1, \xi_2, \ldots, \xi_n, \ldots$$

be a sequence of independent integer variables with the distribution functions

$$F_i(x) = \begin{cases} 0 & , x \leq 0 , \\ 1-\left[c_i + \alpha_i(x)\right] \frac{1}{x^\alpha} & , x > 0 , \end{cases} \quad (2)$$

Card 1/ 4

On the local limit theorem for stable ...   S/052/62/007/002/002/005
C111/C222

where $|\delta_i(x)| \leq \alpha(x)$, $\alpha(x) \not> 0$ with $x \not> \infty$, $0 < c' < c_i < c'' < \infty$, $i=1,2,\ldots$
and $0 < \alpha < 1$.
Let further

$$B_n = \left(\sum_{i=1}^{n} c_i \right)^{\frac{1}{\alpha}} , \quad \zeta_n = \sum_{i=1}^{n} \zeta_i , \quad p_{kj} = P\{\zeta_k = j\} ,$$

and let $G(x)$ denote a stable distribution function for which $M(x) = 0$,

$N(x) = -\dfrac{1}{x^\alpha}$, $\sigma^2 = 0$ and $\gamma(\tau) = \dfrac{\alpha}{1-\alpha}\tau^{1-\alpha}$ in the Levy formula.

The local limit theorem holds for (1) in strong form, if for every
sequence differing from (1) only by a finite number of terms, the
relation

$$B_n P\{\zeta_n = m\} - g\left(\frac{m}{B_n}\right) \to 0 \tag{3}$$

Card 2/4

On the local limit theorem S/052/62/007/002/002/005
                                                C111/C222

holds, where

$$\varepsilon\left(\frac{m}{B_n}\right) = G'\left(\frac{m}{B_n}\right).$$

The author proves the following
Theorem 1 : The condition

$$\sum_{h=1}^{\infty} \min_{0 \leqslant m < q} P\left\{ \xi_k \neq m(\text{mod } q) \right\} = \infty \tag{4}$$

is necessary and sufficient that for the sequence (1) with the distri-
bution functions (2) the local limit-theorem holds in the strong form.
Theorem 2 states that condition (4) is necessary and sufficient also if
(2) is replaced by

Card 3/4

On the local limit theorem   ...   S/052/62/007/002/002/005
                                           C111/C222

$$F_i(x) = \begin{cases} [c_i + \alpha_i(x)] \dfrac{1}{|x|^\alpha}, & x \le 0, \\ \\ 1 - [c_i + \alpha_i(x)] \dfrac{1}{x^\alpha}, & x > 0, \end{cases} \qquad (2a)$$

where $0 < \alpha < 2$.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk Litovskoy SSR
               (Institute of Physics and Mathematics of the Academy of
               Sciences Litovskaya SSR)

SUBMITTED: February 25, 1960

Card 4/4

MITALAUSKAS, A. A.
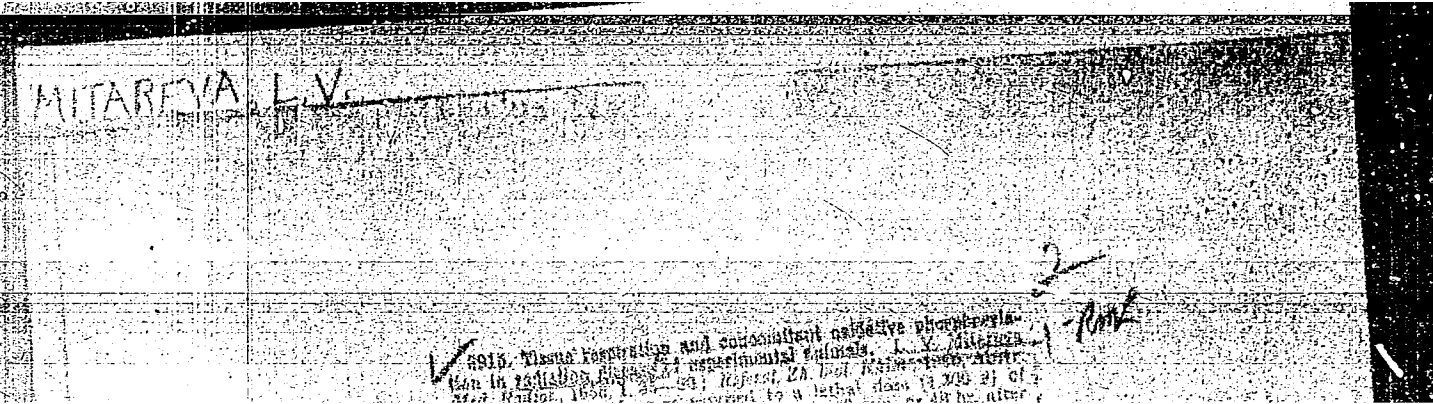
Transactions of the Sixth Conference (Cont.)

SOV/6371

BEN'KO, Ye.I.; YEKHANIN, Ye.V.; ZHADNOVA, V.P.; MITALEV, I.A.

Periodicity in tectonic movements. Geol. nefti. i gaza 9 no.7:
33-35 Je '65.
(MIRA 18:12)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii,
geofiziki i mineral'nogo syr'ya, Novosibirsk.
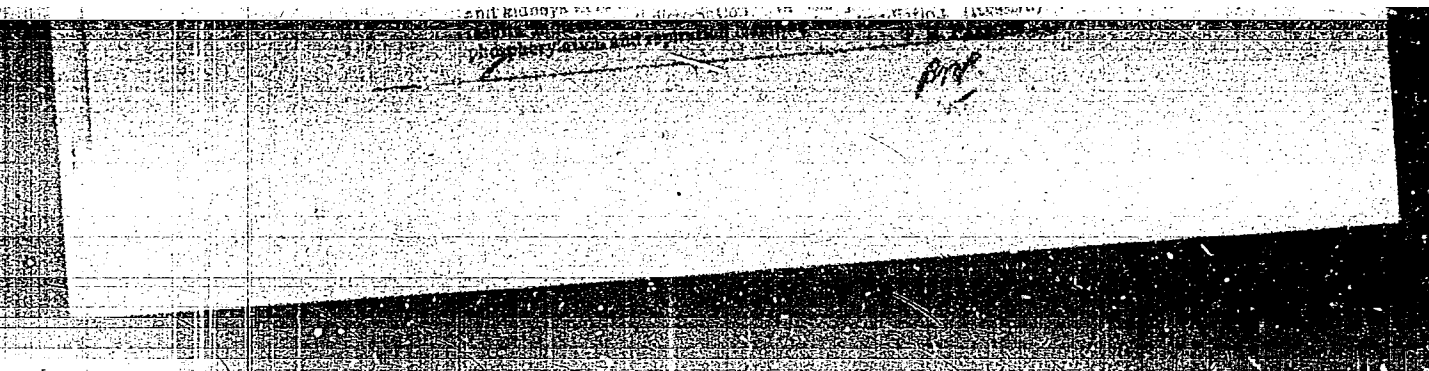
MITAREVA L. V.

6915. Tissue respiration and consistent oxidative phosphoryla-
tion in radiation sickness in experimental animals. L. V. Mitareva
Med. Radiol., 1956.

KHARKHUSHIN, V. M.

Chair of Mil. Hygiene, Saratov State Med. Inst., (-1944-)

Chair of Microbiol., Saratova State Med. Inst., (-1944-)

"Contribution to the mechanism of the action of an antivirus after Bezredka in gas-gangrene,"

Zhur. MiKrobiol., Epidemiol., i Immunobiol., No. 6, 1944.

MITARNOVSKIY, V. M.

"The Role of Spring Floods and Meteorological Conditions on the Lower Volga in the Epidemiology of Malaria", Med. Paraz. i Paraz. Bolez., Vol. 17, No. 2, pp 155-65, 1948.

POKROVSKIY, S.M.; MITARNOVSKIY, V.M.; POLOVODOVA, V.P.

Organization of anti-malarial measures in connection with the construction of the Stalingrad hydroelectric power station (survey of work of 1952). Med.paraz.i paraz.bol. no.2:185-186 Mr-Ap '53. (MLRA 6:6)
(Stalingrad--Malarial fever)

MITARNOVSKIY, V. M. Cand of Med Sci; REMENNIKOVA, V. M.,Cand of Med Sci;KASIMOV, A. A.,
BERD'YEV, Kh. B., POKROVSKIY, S. N. Prof. and LEYZERMAN, L. I. Cand of Med Sci.

"Plans for liquidating malaria during the Five-Year Plan" a paper read at the
All-Union Conference for Combating Parasitic Diseases held in Moscow, 10-11
Apr 1956

SO: Sum 1239

MITARNOVSKIY, V.M.

LEYZERMAN, L.I.; MITARNOVSKIY, V.M.

Tropical malaria and means for eradicating it in southeastern
European Russia. Med.paraz. i paraz.bol.supplement to no.1:20-21
'57.   (MIRA 11:1)
          (MALARIA)

LEYZERMAN, L.I., MITARNOVSKIY, V.M.

Distribution of tertian malaria with prolonged incubation time in the
southeastern part of European Russia. Med.paraz. i paraz.bol.
27 no.3:357-358 My-Je '58   (MIRA 11:7)

1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva
zdravookhraneniya RSFSR (dir. instituta - prof. S.N. Pokrovskiy).
        (MALARIA, epidemiology
            in Russia, tertian malaria (Rus))

POKROVSKIY, S.N.; LEIZERMAN, L.I.; MITARNOVSKIY, V.M.

Course of malaria control in the R.S.F.S.R. during 1959.
Med.paraz.i paraz.bol. 29 no.5:516-521 S-O '60.   (MIRA 13:12)

1. Iz Respublikanskogo nauchno-issledovatel'skogo instituta
malyarii i meditsinskoy parazitologii Ministerstva zdravookh-
raneniya RSFSR (dir. instituta - prof. S.N. Pokrovskiy).
                    (MALARIA)

MITARNOVSKIY, V. M., DOC MED SCI, "MALARIA IN LOWER

VOLGA AREA. (PROBLEMS OF THE HISTORY, EPIDEMIOLOGY, AND

SYSTEM OF ORGANIZATION OF ANTIMALARIAL MEASURES)." ROSTOV

NA/DONU, 1961. (FIRST MOSCOW ORDER OF LENIN MED INST IM

I. M. SECHENOV). (KL, 3-61, 228).

MITARNOVSKIY, V.M.

Problem of the eradication of malaria in the Volga Delta.
Med.paraz.i paraz.bol.   30 no.1:76-80 Ja '61.   (MIRA 14:3)

1. Iz Respublikanskogo nauchno-issledovatel'skogc instituta
malyarii i meditsinskoy parazitologii Ministerstva zdravookhra-
neniya RSFSR (dir. instituta - prof. S.N. Pokrovskiy).
                    (VOLGA DELTA—MALARIA)

LEYZERMAN, L.I.; MITARNOVSKIY, V.M.

Antimalarial measures. Zdrav. Ros. Feder. 5 no.1:16-38 Ja '61.
(MIRA 14:1)

1. Iz Respublikanskogo instituta malyarii i meditsinskoy parazitologii
(dir. - prof. S.N. Pokrovskiy) Ministerstva zdravookhraneniya RSFSR.
(MALARIA)

MITARSKI, Jan; TEUTSCH, Aleksander

Immediate reactions to the incarceration and the degree of adaptation
to living conditions among the inmates of nazi prisons and concentra-
tion camps. Polski tygod. lek. 16 no.42:1627-1631 16 O '61.

1. Z Kliniki Psychiatrycznej A.M. w Krakowie; kierownik: prof.
dr Eugeniusz Brzezicki.
    (PRISONS)   (ADAPTATION PSYCHOLOGICAL)

SKIBA, Jozef, inz.; MITAS, Edward

The inclined passenger elevator. Wiadom gorn 13 no.6:202-203
Je '62.

NATANSON, A.O.; MITASHOVA, N.I.; CHUVAYEV, A.V.

Role of the hypophysis in the development of hypertrophy of
the adrenal glands in hypervitaminosis A in rats. Probl. endok.
i gorm. 11 no.1:87-92 Ja-F '65.   (MIRA 18:5)

1. Otdel biokhimii i fiziologii vitaminov Nauchno-issledovatel'skogo
instituta vitaminologii (dir. - kand. biolog. nauk M.I. Smirnov)
Ministerstva zdravookhraneniya SSSR, Moskva.

MITASHOVA, N.I.

Disorders in the permeability of the hematoencephalic barrier to
P^{32} in rats in hypervitaminosis A. Trudy TSIU 71:221-225 '64.

(MIRA 18:6)

1. Kafedra meditsinskoy radiologii (zav. prof. V.K. Modestov)
TSentral'nogo instituta usovershenstvovaniya vrachey i
Gosudarstvennogo nauchno-issledovatel'skogo instituta vitamino-
logii Ministerstva zdravookhraneniya SSSR (dir. kand. biolog.
nauk M.I. Smirnov).

MITASHOVA, N.I.; SOKOLOV, A.B.

Permeability of the hematoencephalic barrier and the distribution of K^{42} in the organs of rats in hypervitaminosis A. Trudy TSIU 71:212-220 '64.   (MIRA 18:6)

1. Kafedra meditsinskoy radiologii (zav. prof. V.K. Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey.

KOZYREVA, A.I.; MITASHOVA, N.I.

Study of the functional state of the thyroid gland in erythremia.
Trudy TSIU 71:70-72 '64.
(MIRA 18:6)

1. Kafedra meditsinskoy radiologii (zav. prof. V.K. Modestov)
TSentral'nogo instituta usovershenstvovaniya vrachey.

BOGOMOLOV, A.M.; MOROZOVA, I.D.; OS''V'KINA, N.A.; ROZHKOVA, R.I.; MARCHENKO,
    G.A.; MITASOV, D.G.; SRAGOVICH, V.G., kand.fiz.-matem.nauk, otv.red.;
    ORLOVA, I.A., red.

[Programs in linear algebra.] Programmy po lineinoi algebre.
Moskva, 1964. 62 p. (Akademiia nauk SSSR. Vychislitel'nyi
tsentr. Standartnye i tipovye programmy dlia mashin "Ural,"
no.7)   (MIRA 18:1)

MITASOV, I. G., Candidate Med Sci (diss) -- "The clinical-morphological charac-

teristics of primary-chronic appendicitis and the effect of appendectomy on

the secretory-motor function of the stomach". Khar'kov, 1959. 20 pp (Min

Health Ukr SSR, Khar'kov State Med Inst), 250 copies (KL, No 24, 1959, 151)

MITASOV, I.G., dotsent

Foreign bodies impacted in the clavicle; diagnosis, indications to their removal and surgical tactics. Trudy Khar'. med. inst. no.50:369-380 '62. (MIRA 19:1)

1. Fakul'tetskaya khirurgicheskaya klinika (zav. prof. A.Z. TSeytlin) i Khar'kovskaya oblastnaya klinicheskaya bol'nitsa (glavnyy vrach V.A.Pizhankova) Khar'kovskogo med. instituta.

PUZAKOV, N.A., doktor tekhn. nauk; KHARKHUTA,N.Ya., doktor tekhn.
nauk; MOTYLEV, Yu.L., kand. tekhn. nauk; VEYTSMAN, M.I.,
kand. tekhn. nauk; MITASOV, I V., inzh.; LEVITSKI, Ye.F.,
inzh.; RUMANOV, A.Z., inzh.; Prinimali uchastiye: KAZARNOVSKIY,
V.D., kand. tekhn. nauk; DENISOV, Ye.M., inzh.; TOPOL'NITSKAYA,
L.F., red.

[Instruction for building earth automobile roadbeds] In-
struktsiia po sooruzheniiu zemlianogo polotna avtomobil'nykh
dorog (VSN 97-63). Moskva, Transport, 1964. 236 p.
                                        (MIRA 17:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy proizvodstvennyy
komitet po transportnomu stroitel'stvu.

MITASOV, V.I.

Late results of treatment of cancer of the skin; from data of the
Kharkov Province Oncological Dispensary. Vop. onk. 6 no.5:103-109
My '60.   (MIRA 14:3)

(SKIN—CANCER)

MITASOV, V.I.

Treatment of skin cancer of the eyelids and corners of the
orbital fissure. Med.rad. no.9:5-10 '61.   (MIRA 15:1)

1. Iz khirurgicheskogo otdeleniya (zav. - I.M. Miloslavskiy)
Khar'kovskogo oblastnogo onkologicheskogo dispansera.
          (EYELIDS—CANCER)   (COBALT—ISOTOPES)

KHOLOBUDENKO, M.D., inzh.; MITASOV, Ya.T., inzh.

Mining 330 m. of drift per month with undercutting. Shakh. stroi.
no.1:24-26 Ja '59. (MIRA 12:1)

1.Trest Krasnoarmeyskshakhtostroy (for Kholobudenko).
(Mining engineering)

MAYEVSKIY, G.A.; MITASOV, Ya.T.; SERPOKRYL, I.S.

Reinforced concrete anchor bolting in swelling grounds. Ugol'
Ukr. 3 no.12:31-33 D '59.   (MIRA 13:4)
            (Lvov-Volyn' Basin--Mine roof bolting)

MITASOV, Ye.T.; ALEKSEYEV, V.B.; KRASOVSKIY, I.P., red. izd-va

    [Mining operations in building the Soligorsk Potassium
Combine]Gornye raboty na stroitel'stve Soligorskogo kaliinogo
kombinata; informatsionnoe soobshchenie. Moskva, Gosgortekh-
izdat, 1962. 10 p.   (MIRA 16:3)
      (Soligorsk region—Potassium salts)
        (Mining engineering)

MITASOV, Yevgeniy Timofeyevich; SERPOKRYL, Ivan Stefanovich;
    CHERNEGOVA, E.N., red. izd-va; LAVRENT'YEVA, L.G., tekhn.
    red.; SABITOV, A., tekhn. red.

[Modern technology of development mining] Sovremennaia
tekhnologiia provedeniia podgotovitel'nykh vyrabotok. Mo-
skva, Gosgortekhizdat, 1963. 160 p.   (MIRA 16:6)
                    (Mining engineering)

ALEKSEYEV, Valentin Borisovich; DRUTSKO, Vitaliy Pavlovich; MITASOV,
    Yevgeniy Timofeyevich; PEVZNER, G.Ye., otv. red.; CHERNEGOVA,E.N.,
    red. izd-va; OVSEYENKO, V.G., tekhn. red.; SABITOV, A., tekhn. red.

[Drift miner] Prokhodchik gorizontal'nykh i naklonnykh gornykh
vyrabotok. Moskva, Gosgortekhizdat, 1963. 210 p. (MIRA 16:6)
                (Mining engineering)

ZAMERIBORSHCH, F.S.; MEN'SHCHIKOVA, L.A.; MITASOVA, Ye.V.

The paracaudal organ of the anchovy and its supposed function.
Zool.zhur. 39 no.7:1107-1109 Jl '60.   (MIRA 13:7)

1. Kafedra zoologii pozvonochnykh Odesskogo gosudarstvennogo
universiteta.
        (Anchovies)   (Fins)

MITATEV, P.

"Relations and collaboration of Georgi N. Zlatarski with Konstantin Jirecek during 1881-1893, according to their preserved correspondence."

p. 245 (Bulgarska akademiia na naukite. Geologicheski institut. Izvestiia. Vol. 3, 1955, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 2, February 1958

MITAUER, L.Kh.

Organization of fluorography in district centers and rural
areas. Vrach.delo no.1:147-148 Ja '63.   (MIRA 16:2)

1. Oblastnoy protivotuberkuleznyy dispanser i kafedra tuberku-
leza (zav. – dotsent A.D. Korneyev) Khar'kovskogo meditsinskogo
instituta.
          (TUBERCULOSIS—PREVENTION)   (DIAGNOSIS, FLUOROSCOPIC)

MITAYEV, V. A.

Dissertation defended for the degree of Candidate of Economic Sciences
at the Institute of Economics

"Division of Labor in Socialism."

Vestik Akad. Nauk, No. 4, 1963, pp 119-145

MITBERG, YA·H.

AID P - 3233

Subject   : USSR/Electricity

Card 1/1   Pub. 29 - 18/30

Author   : Mitberg, Ia. A., Eng.

Title   : Reduction of losses of low potential heat at electric power
                 stations

Periodical   : Energetik, 8, 20, Ag 1955

Abstract   : The author describes a preheater he has designed to utilize
                 condensate heat   which results in a considerable fuel economy.

Institution   : None

Submitted   : No date

MITBREYT, I. M.

Mitbreyt, I. M. - "Orthopedic foot-wear with footstep," Trudy Tsentr. nauch.-issled. in-ta protezirovaniya i protezostroyeniya, symposium 3, 1949, p. 126-31

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

SHENK, N.A.; NYDINOVA, M.H.; MITAREYT, I.H.

Therapeutic and diagnostic value of galantamine in various stages of poliomyelitis. Farm. i toks. 19 no.4:36-44 Jl-Ag '56.
(MIRA 9:10)

1. Tsentral'nyy nauchno-issledovatel(skiy institut protezirovaniya i protesostroyeniya Ministerstva sotsial'nogo otespecheniya RSFSR.
(POLIOMYELITIS)   (PHARMACOLOGY)

BLOKHIN, V.N., dots.; BOGDANOV, F.R., prof.; VAYNSHTEYN, V.G., prof.; GODUNOV, S.F., doktor med. nauk; MITBREYT, I.M., kand. med. nauk; MOVSHOVICH, I.A., kand. med. nauk; HOLODAYA, Ye.K., prof.; NIKIFOROVA, Ye.K., prof.; KOVACHENKO, N.P., prof.; ROZOV, V.I., prof.; CHAKLIN, V.D., prof.; YANYKOV, D.K., prof.; PETROVSKIY, B.V., prof., otv. red.; STICHILO, K.K., tekhn. red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Medgiz. Vol.11, book 1. [Surgery of the upper extremities] Khirurgiia verkhnei konechnosti. 1960.
(MIRA 15:3)
518 p.

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogdanov, Novachenko, Chaklin). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Petrovskiy).
(EXTREMITIES, UPPER—SURGERY)

MITHREYT, I.M., starshiy nauchnyy sotrudnik

Surgical treatment of costovertebral humpback in scoliosis.
Ortop., travm.i protez. 23 no.5:36-41 My '62.   (MIRA 15:11)

1. Iz kliniki detskoy ortopedii i travmatologii (zav. - chlen-
korrespondent AMN SSSR prof. V.D. Chaklin) TSentral'nogo insti-
tuta travmatologii i ortopedii (dir. - doktor med.nauk M.V.
Volkov).   (SPINE--ABNORMITIES AND DEFORMITIES)

GUMENER, P. T.; MITBREJT, I. M.

Functional disorders of the back and abdominal muscles in scoliosis.
Acta chir. orthop. trauma. Cech. 29 no.1:55-54 F '62.

1. Klinicke oddeleni detske ortopedie a traumatologie, vedouci dopisu-
jici clen ALV SSSR prof. V. D. Caklin Ustredni ustav ortopedie a
traumatologie ministerstva zdravotnictvi SSSR, reditel radny clen
ALV SSSR prof. N. N. Priorov Moskevska ortopedicka vojenska nemocnice,
nacelnik doktor lek. ved S. N. Voskresenski.

(SCOLIOSIS physiol)   (ABDOMINAL WALL physiol)
(BACN physiol)

MITBREYT, I.M., kand. med. nauk; SHEPELEVA, I.S., kand. med. nauk

Stabilizing surgery in the treatment of foot diformities following poliomyelitis. Ortop.,travm. i protez. 25 no.2:39-47 F '64.
(MIRA 18:1)

1. Iz kliniki detskoy ortopedii i travmatologii na baze Moskovskogo ortopedicheskogo gospitalya (nachal'nik - doktor med. nauk S.N. Voskresenskiy; zav. kliniki - chlen-korrespondent AMN SSSR prof. V.D. Chaklin) TSentral'nogo instituta travmatologii i ortopedii (direktor - chlon-korrespondent AMN SSSR prof. M.V.Volkov). Adres avtora: Moskva, Zh-44, 2-ya Dubrovskaya ul., d. 13, klinika TSentral'nogo instituta travmatologii i ortopedii na baze ortopedicheskogo gospitalya.

L 11235-66   EWT(l)/EWA(h)   RWP   8/5044/64/000/011/V058/V058

ACCESSION NR: AR2004060

SOURCE: Ref. zh. Matematika, Abs. 11V383

AUTHOR: Mitchell, B. F.

TITLE: Method for generating random numbers on digital electronic computers

CITED SOURCE: Tr. Vchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 19, 1964, 159-164

TOPIC TAGS: random number generator, electronic computer

TRANSLATION: A method is proposed for producing an aggregate of random numbers. The generator reproduces in succession words (vectors) consisting of N bits, by performing addition in module 2 of a series of M words

$$a_{11}, a_{12}, \dots, a_{1j}, \dots, a_{1N}$$
$$a_{21}, a_{22}, \dots, a_{2j}, \dots, a_{2N}$$
$$\dots \dots \dots \dots \dots \dots$$
$$a_{i1}, a_{i2}, \dots, a_{ij}, \dots, a_{iN}$$
$$\dots \dots \dots \dots \dots \dots$$
$$a_{M1}, a_{M2}, \dots, a_{Mj}, \dots, a_{MN}$$
$$b_1, b_2, \dots, b_j, \dots, b_N$$

Card 1/4

L 31275-65
ACCESSION NR: AR5004820

The sequence $b_1, b_2, \ldots, b_j, \ldots, b_N$ is a pseudo-random number, consisting of N bits.

ACCESSION NR: AR5000020

Theorem 2. If a simple number P > 2, then the table A, made up of M nonmonotonic words of P bits each, is equal to the table A transformed R times if and only if R is equal to zero in modulo P^M.

The proof of this theorem is constructed by mathematical induction in M. It is shown that the relative frequency of $b_i = 0$ or 1 can be obtained as close to 0.5 as necessary by choosing a sufficiently large value of M:

$$\frac{P^M \pm 1}{2P^M} = 0.5 \pm \frac{P^{-M}}{2}.$$

The small deviation from 1/2, together with the complexity of the transformation rule, justifies the use of this method for a generator of a sequency of pseudorandom binary numbers. By using b_1 only, for example, one can generate a sequence of binary numbers which repeats after P^M transitions. It is proposed to interpret $b_1, b_2, \ldots, b_{p-1}$ as a binary number $0 \le (0, b_1, b_2, \ldots, b_{p-1}) < 1$. This is a random number from a uniform distribution (b_p is discarded, since

$$\left(\sum_{i=1}^{P} b_i\right) \bmod 2 = \left(\sum_{i=1}^{M}\sum_{j=1}^{P} a_{ij}\right) \bmod 2\right).$$

Card 3/4

L 31275-65
ACCESSION NR: AR5004820

For large values of M, each such binary number appears with a relative frequency which is close to $2^{-(P-1)}$. A program is presented for the generator, written in the form of a standard subprogram for the "Minsk 1" electronic computer. The program uses a table with P = 29 and M = 30. The program produces a random number within approximately 1/12 sec.

SUB CODE: DP, MM   ENCL: 00

Card 4/4

ACC NR: AR6026536   SOURCE CODE: UR/0372/66/000/004/G051/G051

AUTHOR: Mitchell, B. F.

TITLE: Finding smooth and sharp extremums with the aid of electronic computers

SOURCE: Ref. zh. Kibernetika, Abs. 4G352

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 26, 1965, 143-148

TOPIC TAGS: mathematic analysis, electronic computer, algorithm, function analysis

ABSTRACT: The author describes an algorithm for finding the maximum f (x *) of the function f(x), $a \leq x \leq b$ of a variable, on the premise that f (x) rigorously increases in the interval [a, x*] and rigorously decreases in the interval [b, x*] . Suppose $a \leq x_1 < x_2 < x \leq x_3 \leq b$ and $f (x_2) \geq$ f (x). Then the assumptions of monotonicity imply that $x^* < x$, and [x, x_3] may be excluded from the next iteration. If $f (x_2) \leq f(x)$ then [x_1, x_2] is excluded. Each iteration reduces in half the preceding interval and after N iterations the errors in determining x* do not exceed $1/2^N$. A detailed block diagram of the pertinent algorithm is presented. 4 illustrations,

Card 1/2   UDC: 62-506:681.142:001.61

ACC NR: AR6026536

bibliography of 5 titles. V. Sh. [Translation of abstract]

SUB CODE: 09, ▓▓▓ /2

Card   2/2

MITCHENKO, I.A.

...titative determination of hydrochloric salts of alkaloids and of some organic bases which contain nitrogen by means of mercurimetry. Apt.delo 8 no.2:20-22 Mr-Ap '59. (MIRA 12:5)

(NITROGEN COMPOUNDS)   (MERCURIMETRY)

MITCHENKO, F.A. [Mytchenko, F.A.]

Volumetric determination of mercury salts. Farmatsev. zhur. 16
no.3:20-27 '61.   (MIRA 14:6)

1. Kiyevskiy institut usovershenstvovaniya vrachey.
                    (MERCURY—ANALYSIS)

KAGAN, F.Ye. [Kahan, F.E.]; VAYSMAN, G.A. [Vaisman, H.A.];
MITCHENKO, F.A. [Mytchenko, F.A.]; KIRICHENKO, L.A. [Kyrychenko, L.O.]

Spectrophotometric analysis of alkaloid salts in multiple-
alkaloid medicinal mixtures. Report No. 3. Farmatssv. zhur. 20
no.5:21-28 '65.   (MIRA 18:11)

1. Kiyevskiy institut usovershenstvovaniya vrachey. Submitted
December 8, 1964.

MITCHENKO, G., shturman; GRIGORENKO, A., sudovoy mekhanik

On a progressive Sakhalin ship. Mor. flot 25 no.9:33 S '65.
(MIRA 18:9)

KHOMENKO, G.I., prof.; MITCHENKO, I.K., dotsent; SLOBODYANYUK, M.I.;
OSEDKO, N.A.

Modern therapy for infectious hepatitis. Vrach. delo no.2:
105-109 F'64   (MIRA 17:4)

1. Kafedra infektsionnykh bolezney (zav. - prof. G.I.Khomenko)
Kiyevskogo instituta usovershenstvovaniya vrachey.

MITCHENKO, I. K.

MITCHENKO, I. K. -- "The Effect of Helminths on the Course of Dysentery and Problems of Dehelminthization under These Conditions." Acad Med Sci USSR. Inst of Infectious Diseases. Kiev, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

MITCHENKO, I.K.

Eosinophilia in helminthiasis in dysentrery patients. I.K. Mitchenko. Med.paraz. i paraz. bol. 27 no.2:216 Mr-Ap '58 (MIRA 11:5)

1. Iz Instituta infektsionnykh bolezney Akademii meditsinskikh nauk SSSR.

(WORMS, INTESTINAL AND PARASITIC)

MITCHENKO, K.D.

MIRZOYEVA, Ye.L.; KOMAROV, A.M.; PODKOPAYEV, I.I.; MITCHENKO, K.D.

Regularizing the wage system in the baking industry; discussion on
the article of R.IA. Vorovitskaia, G.I. Kleimar. Khleb.i kond.prom.
I no.6:24-29 Je '57.

(MLRA 10:8)

1.Ministerstvo promyshlennosti prodovol'stvennykh tovarov SSSR
(for Mirzoyeva). 2.TSentral'nyy komitet profsoyuza rabochikh
pishchevoy promyshlennosti (for Komarov). 3.Tekhnik po trudu
Podol'skogo khlebokombinata Moskovskoy oblasti (for Podkopayev).
4. Tekhnik po trudu khlebokombinata v Chernovitsakh (for Mitchenko).
(Wages)

MITCHENKO, V.P.

RECHMENSKIY, S.S., MITCHENKO, V.P.

Determination of air-borne viruses by means of gelatin foam filters; premliminary report [with summary in English].
Vop. virus 3 no.2:101-103 Mr-Ap '58   (MIRA 11:5)

1. Institut infektsionnykh bolezney AMN SSSR, Kiyev.
       (VIRUSES.
             air-borne, determ. by gelatin foam filters (Rus)

MAXIMOVICH, N.A.; MITCHENKO, V.P.

Study of cellular and viral nucleic acids in experimental influenza
infection using fluorescence microscopy. Acta virol.Engl.Ed.Praha
4 no.4:227-232 Jl'60.

I. Institute of Infectious Diseases, U.S.S.R. Academy of Medical
Sciences, Kiev.
          (NUCLEIC ACIDS chem)
          (INFLUENZA exper)

MITCHENKO, V.P.

Mechanism of the interaction of the influenza virus with sensitive cells. Report No. 1: Adsorption of the influenza virus on living respiratory tract cells of various types of animals. Vop.virus.7 no.5:555-558 S-O '62.   (MIRA 15:11)

1. Institut infektsionnykh bolezney, Kiyev.
                    (INFLUENZA—MICROBIOLOGY)

MITCHENKO, V.P.; GORBUNOVA, A.S.

Mechanism of the interaction of influenza virus with suscep-
tible tissues. Report no.2: Nonspecific inhibitos of in-
fluenza virus in secretions of the mucous membranes of the
respiratory tract of different animal specie and their sig-
nificance for the adsorption of the virus on susceptible
cells. Vop. virus 8 no.1:44-48 Ja-F'63.   (MIRA 16:6)

1. Institut infektsionnykh bolezney AMN SSSR, Kiyev, i
Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
    (INFLUENZA VIRUSES)   (RESPIRATORY ORGANS)
        (BLOOD—AGGLUTINATION)

MITCHENKO, V.R., starshiy nauchnyy sotrudnik

Tufted nonwoven fabrics made from cotton for children and women's clothing. Tekst. prom. 24 no.8:51-53 Ag '64.

(MIRA 17:10)

1. Latviyskiy kompleksnyy nauchno-issledovatel'skiy institut legkoy promyshlennosti (LatNIILegprom).

GERING, Kh.F.; MITCHENKOVA, T.A.

Physiology of corn plants varying in viability. Agrobiologiia
no. 3:383-389 My-Je '61.
(MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova,
kafedra genetiki i selektsii.
(Corn (Maize))

GERING, Kh.; MITCHENKOVA, T.A.; BARSUKOVA, M.D.

Overcoming of self-sterility and depression in the progeny of inbred
rye. Dokl. AN SSSR 136 no.2:460-462 '61.   (MIRA 14:1)

1. Predstavleno akademikom T.D. Lysenko.
                    (Rye breeding)

CZECHOSLOVAKIA / General Problems of Pathology.
                Immunity.   U

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41856.

Author : Mitchison, N. A.
Inst   : Not given.
Title   : Production of Antibodies by Transplanted Spleen
          Tissue in the Chicken.

Orig Pub: Ceskosl. biol., 1957, 6, No 2, 93-97.

Abstract: Antibodies were demonstrated in chicks after in-
         jection into their abdominal cavity of spleen
         tissue of adult chickens immunized with homolo-
         gous or rabbit erythrocytes. Formation of anti-
         bodies did not take place in experiments with
         bone marrow.

Card 1/1

3

Hitess I

FRUNDER, H.; MITEFF, I.

Observations on the glycolysis and tricarboxylic acid cycle
in liver tissue in connection with disturbance of the cell structure.
Acta physiol. hung. 9 no.1-3:53-59 1956.

1. Physiologisch-chemisches Institut der Karl-Marx-Universitat
Leipzig, und Hoheres medizinisches Institut Iwan Petrowitsch Pawlow,
biochemische abteilung, Plowdiw.
        (LIVER, metab.
            glycogen, -keto-glutaric acid, lactic acid & pyruvic acid,
            comparison of concentration balance in homogenate to
            concentration in vivo (Ger)}
        (GLYCOGEN, metab.
            liver, comparison of concentration in homogenate to
            concentration in vivo (Ger)}
        (LACTIC ACID, metab.
            same)
        (PYRUVATES, metab.
            same)
        (KETONE ACIDS, metab.
            -keto-glutaric acid, comparison of concentration in liver
            homogenate to concentration in vivo (Ger)}

KOPYDLOWSKI, Jerzy, mgr inz.; MITEK, Aniela, mgr inz.

Development trends in the construction of large boilers. Przegl mech 23 no.15:437-441 10 Ag '64

1. Central Boiler Design Office, Tarnowskie Gory.

MITEK, Aniela, mgr inz.; KOPYDLOWSKI, Jerzy, mgr inz.

Boilers with forced circulation. Przegl mech 23 no. 4:116-118
25 F '64.

1. Centralne Biuro Konstrukcji Kotlow, Tarnowskie Gory.

PRIMER, A.I.; ZAYTSEV, P.V.; IL'IN, V.V.; MITEKHIN, Ye.P.

Apparatus for thermal and cathodic atomization and etching of
metals in a gas discharge. Zav.lab.22 no.2:238-240 F '56.
(Metallography—Apparatus and supplies)   (MIRA 9:6)

MITKIN, B.P.

Stories of "experienced people" for extracurricular work. Geog.
v shkole no.1:54-56 Ja-F '54.
(MLRA 7:1)
(Geography)

MITSKIN, B.P.

Our experience in training students for practical work in
the chemical industry. Politekh.obuch. no.1:28-29 Ja '59.
(MIRA 12:2)

1. Redkinskaya srednyaya shkola Kalininskoy oblasti.
(Redkino--Chemistry--Study and teaching)

MITEKIN, B.P., prepodavatel' (poselok Redkino, Kalininskoy oblasti)

Nothing in life can unseat us. Zdorov'e 8 no.2:17-18 F '62.
(MIRA 15:4)

(INVALIDS)

J

Country : USSR
Category: Soil Science. Organic Fertilizers.

Abs Jour: RZhBiol., No 14, 1958, No 63110

Author : Mitel'berg, S.I.
Inst   : Central Peat-Marsh Experimental Station
Title   : Methods of Increasing the Effectiveness of Peat-
          Manure Composts.

Orig Pub: Byul. nauchno-tekhn. inform. Tsentr torfo-bolotn
          opytn st , 1957, No 1, 43-46.

Abstract: According to the results of research carried out
          in 1952-1955 by the Central Peat-Marsh Experimental
          Station, peat-manure composts of lowland peat accu-
          mulate in 2-2.5 months the greatest quantity of ni-
          trates and produce the greatest crop increases which
          are reduced, however, if the period of composting is

Card   : 1/2

NIKONOV, M.N., doktor geol.-min. nauk; MITEL'BERG, S.I.

General survey of foreign literature on peat. Torf. prom. 36
no.5:40-41 '59.   (MIRA 13:1)

1.TSentral'naya torfobolotnaya opytnaya stantsiya.
                    (Peat)

MITEL'MAN, B.

      Improve the utilization efficiency of working capital in every way possible. Den. i kred. 21 no.12:27-33 D '63.

                                       (MIRA 17:1)

MITELIKOV, L.G., prepodavatel'

[Accounting and operational technique of the State Bank; program and methodological instructions for fourth year students attending correspondence schools in accounting and credit and specialising in "Currency circulation and credit" for the 1959-1960 school year] Uchet i opera-tsionnaia tekhnika v Gosbanke; programma i metodicheskie ukazaniia dlia uchashchikhsia - zaochnikov IV kursa uchetno-kreditnykh tekhnikumov po spetsial'nosti "Denezhnoe obrashcha-nie i kredit" na 1959-1960 uchebnyi god. Moskva, 1959. 21 p.
                                                    (MIRA 12:10)

1. Gosudarstvennyy bank, Moscow. Upravleniye uchebaymi zave-deniyami.
            (Banks and banking)

MITEL'MAN, B.I., inzhener; ROZENBERG, G.D., inzhener.

Determining the moment of inertia of forces acting upon screw
blades. Trudy VNITOSS 6 no.1:90-107 '53.   (MLRA 9:11)

(Propellers) (Moments of inertia)

MITEL'MAN, B. I.

24-9-27/33

AUTHORS: Mitel'man, B. I., Rozenberg, G.D. and Charnyy, I.A.
          (Moscow)

TITLE: On the theory of a hydraulic siren (turbotachometer).
          (K teorii gidravlicheskoy sireny (turbotakhometr).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh
          Nauk, 1957, No.9, pp. 148-151 (USSR)

ABSTRACT: A method is described of determining the shape of the
          pressure impulse in an hydraulic siren as a function of
          the parameters of the equipment producing that impulse
          (probe) and also of the average increase in pressure
          produced by its presence. The problem can be formulated
          as follows: the flow rate of the liquid at the entry
          into the piping of the length L and the area of the
          cross section f (Fig.1) is known and equalling
          Q_0 = const. At the end of the piping a probe is fitted
          with a periodically varying area of the cross section of
          passage S. It is assumed that the law of change of the
          area S with time is given by means of a periodic
          function S = S(t) with a period T and that in this
          case the flow rate Q and the pressure p of the liquid
          at the lower cross section of the piping can be expressed
          by some functions of time, namely, Q = Q(t), p = p(t).

Card 1/2

On the theory of a hydraulic siren.(turbotachometer). 24-9-27/33

The average values of the pressure $\bar{p}$ and of the flow rate $\bar{Q}$ in front of the probe can be expressed by means of the starting eqs.(1).   The flow rate through the probe can be expressed by eq.(7), p.149 and from this a function $p = p(t)$ can be plotted. Application of the method is illustrated on a practical calculation when the probe is the hydro-turbotachometer of an instrument intended for measuring the r.p.m. of a turbo (oil) drill. There are 4 figures and 1 Slavic reference.

AVAILABLE: Library of Congress.

Card 2/2

MITEL'MAN, B.I.

GUSMAN, M.T.; MITEL'MAN, B.I.

Trubodrilling wells with diminishing diameters. Neft.khoz. 35 no.2:11-14 F '57.   (MIRA 10:3)
        (Oil well drilling) (Turbodrills)

MITEL'MAN B. I.

GUSMAN, M.T.; MITEL'MAN, B.I.

Efficient utilization of the capacity of pumping installations
when drilling deep wells. Neft. khoz. 35 no.12:10-13 D '57.

(Oil well pumps)

(MIRA 11:2)