

GAPONOVA, V.D.; DOIL'NITSYNA, A.D.

Dynamics of the reactivity of blood vessels and blood coagulation during dicumarol therapy of cerebral vascular disorders. Vrach. delo no.9:929-931 S '57. (MLRA 10:2)

1. Tre't'ya psikhiatricheskaya klinika (zav. - prof. Ye.S.Avergukh) Leningradskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta

(COUMARIN) (BRAIN--BLOOD SUPPLY)
(BLOOD--COAGULATION)

GAPONOVA, V. D.: Master Med Sci (diss) -- "The clinical effectiveness and physiological principles of using dicoumarin to treat patients with hypertonic and atherosclerotic psychoses". Leningrad, 1959. 12 pp (State Order of Lenin Inst for the Advanced Training of Physicians in S. M. Kirov), 200 copies (KL, No 13, 1959, 111)

AVERBUKH, Ye.S.; VISHNEVSKAYA, L.N.; GAPONOVA, V.D.; DOIL'NITSYNA, A.D.;
YEFIMENKO, V.L.; LEBEDEV, B.A.

Modern approach to the investigation and treatment of mental dis-
turbances in hypertension. Trudy Gos. nauch.-issl. psikhonevr.
inst. no.20:149-162 '99.
(MIRA 14:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy psikhonevrologicheskiy
institut imeni V.M. Bekhtereva, Leningrad.
(MENTAL ILLNESS) (HYPERTENSION)

BEL'MAN, Kh. L.; GAPONOVA, V. D.; MATUSHKINA, L. V.

Use of anticoagulants in vascular diseases of the brain; clinical and experimental study. Nauch. trudy Inst. nevr. AMN SSSR no.1: 340-344 '60. (MIRA 15:7)

1. Psikhonevrologicheskiy institut imeni V. M. Bekhtereva.

(CEREBROVASCULAR DISEASE)
(ANTICOAGULANTS(MEDICINE))

GAPONOVA, Yu.G.

Cases of unusual localization of intracranial foreign bodies
in medical expert testimony. Zhur.nevr. i psikh. 59 no.4:
481-485 '59. (MIRA 12:6)

1. Nevrologicheskoye otdeleniye (nauchnyy rukovoditel' -
prof.N.K.Bogolepov) Tsentral'nogo nauchno-issledovatel'skogo
instituta ekspertizy trudosposobnosti i organizatsii truda
invalidov.

(BRAIN, for. bodies,
determ. of work-connected disability (Rus))
(DISABILITY EVALUATION,
in brain for. bodies (Rus))

GAPONOVA, Yu.G.

Studies on the relationship between the analyzers in epileptic patients based on electroencephalographic and optic chronaximetric data. Zhur. nevr.i psikh 60 no.8:965-973 '60.
(MIRA 13:9)

1. Elektrofiziologicheskaya laboratoriya (zav. I.M.Feygenberg)
TSentral'nogo nauchno-issledovatel'skogo instituta sudebnoy psikiatrii imeni V.P. Serbskogo (direktor - dotsent G.V. Morozov) i nevrologicheskoye otdeleniye (nauchnyy rukovoditel' - prof. N.K.Bogolepov)
TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (direktor - prof. D.I. Gritsekevich), Moskva.
(EPILEPSY) (ELECTROENCEPHALOGRAPHY)

GAPONOVA, Yu.G.

Correlation between the bioelectric activity of the brain and
the interaction of the analysers in epileptic patients. Probl.
swd.psih. 11:196-209 '61. (MIRA 16:3)
(EPILEPSY) (ELECTROENCEPHALOGRAPHY) (SENSES AND SENSATION)

Reflex of...

I. Reflex of...
II. Reflex of...
III. Reflex of...
Viktorov, I. I.

PA 150194

GAPONOV-GREKHOV, A.

USSR/Physics - Wave Guides, Circular Antennas Nov 49

"Excitation of a Circular Wave Guide by an Annular Antenna," A. Gaponov-Grekhov, M. Miller, Physicotech Inst, Affiliate, Gor'kiy State U, 11 pp

"Zhur Tekh Fiz" Vol XIX, No 11

Introduces general formulas for the characteristic impedance of a thin transverse antenna in a wave guide. Considers a tuned annular antenna in a wave guide in detail. Gives formulas for radiation resistance and for reactance. Gives latter formula in the form of a series, the convergence of which is

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USSR/Physics - Wave Guides, Circular (Contd) Nov 49

proved, thus showing the applicability of the theory of thin antennas to a lambda-ring in a circular wave guide and the possibility of tuning such a ring. Gives formulas for radiation resistance of a transverse half-wave dipole, and a graph of the radiation resistance of this dipole and a lambda-ring. Submitted 10 May 48.

150194

SHIZHEVSKAYA, I.I.; GAPANOVICH, L.I.; POZNYAK, L.V.

Lablity of hydrogen atoms of the methylene group of benzimidazolo
(2',1'-2,3) thiazolidin-4-one. Zhur. ob. khim. 35 no.7:1276-
1280 J1 '64.
(MIRA 18:8)

1. Institut fiziko-organicheskoy khimii AN Belorusskoy SSR.

GAPONOVICH, N.S.

Experience in the surgical treatment of thyrotoxicosis. Probl.
endon. i gorm. 6 no.6:70-75 '60. (MIRA 14:2)
(HYPERTHYROIDISM)

GAPONOVICH, V.V.

Effect of space arrangement in the characteristics of sugar beets
in White Russia. Agrobiologiya no. 1:144-146 Ja-F '62.

(MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly,
g. Kiyev.

(White Russia--Sugar beets) (Plants, Space arrangement of)

GAPONOVICH, V.Ya., aspirant

Postoperative use of synthomycin in radical ear surgery. Vest.oto-
rin. 17 no.1:31 Ja-F '55. (MIRA 8:5)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. dotsent N.O.Kniga)
Minskogo med. inst.
(CHLORAMPHENICOL, ther. use,
postop. in ear surg.)
(EAR, surgery,
radical, postop. use of chloramphenicol)

STAVTSEV, A.K.; MENDELEV, M.B.; PRIVALOV, G.T.; GAPONOVICH, V.Ye.

First results. Tekst. prom. 24 no.3:24-26 Nr 164. (MIRA 17:9)

1. Glavnyy inzh. Kiyevskogo kombinata iskusstvennogo i sinteticheskogo volokna (for Stavtsev). 2. Glavnyy inzh. Krasnodarskogo kamvol'no-sukonnogo kombinata (for Mendelev). 3. Glavnyy inzh. Fryanovskogo kamvol'no-pryadil'noy fabriki (for Privalov). 4. Glavnyy inzh. Pavlo-Posadskogo kamvol'noogo kombinata (for Gaponovich).

I: 08805-67 EWT(1) IJP(e) (N) AT/OD SOURCE CODE: UR/0000/65/000/000/0131/0136
ACC NR: AT6020443

AUTHOR: Kitsenko, A. B.; Gapontsev, B. A. 51

ORG: none

TITLE: Movement of streams of charged particles through a plasma at an arbitrary angle relative to the internal magnetic field

SOURCE: AN UkrSSR. Vzaimodeystviye puchkov zaryazhennykh chastits s plazmoy (Interaction of charged particle beams with plasma). Kiev, Naukova dumka, 1965, 131-136

TOPIC TAGS: plasma magnetic field, charged particle, electron oscillation

ABSTRACT: The excitation of high frequency electron oscillations by a relativistic beam of charged particles moving in an arbitrary direction relative to the internal magnetic field is studied. The main interaction effect is assumed to take place where the wave frequency exceeds the cyclotron frequency of the beam and the wavelength is small compared with the cyclotron radius. The analysis of the tensor giving the dielectric properties of such interacting system gives the rate of growth of ordinary and extraordinary waves. The simplifying assumption which considers only waves with phase velocity much smaller than that of light yields a simple expression for the growth coefficients. In addition, so-called "whistler waves" are considered as a special case, where it is shown that small phase velocity waves are most effectively

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ACC NR: AT6020443

generated when the angle between the wave vector and magnetic field direction approaches 90° . The case of nonrelativistic streams and their rate of growth obtained for the "whistler" mode case is also discussed. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 11Nov65/ ORIG REF: 003

Card 2/2 not

POLIKARPOCHKIN, V.V.; KOROTAYEVA, I.Ya.; GRECHKINA, Ye.A.; GAFONTSEV, G.P.

Relationship between the liquid and solid phases of stray flux.
Geokhimiya no.2:198-210 F '65. (MIRA 18:6)

1. Institut geokhimi Sibirskogo otdeleniya AN SSSR, Irkutsk.

41798

S/044/62/000/010/024/042
B166/B102

12.6000

AUTHOR: Gapontsev, L. P.

TITLE: Calculation of a circular plate on an elastic foundation by the finite difference method

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 28, abstract 10V139 (Izv. vyssh. uchebn. zavedeniy. Str-vo i arkhitekt., no. 1, 1962, 7 - 13) ✓

TEXT: The calculation of a circular thin plate on an elastic foundation subjected to the action of an axially symmetric load is given. The elastic foundation, being in accordance with P. L. Pasternak's model, functions not only by reaction but also in shear. The finite difference method is used to solve the differential equation of the deflection surface of a plate resting on an elastic foundation. Formulas are obtained which are convenient to use, and tables are compiled which considerably simplify the computation process. It is stated that when an arbitrary load is applied to the plate the solution is carried out in the same way as that set out in the article, but the formulas obtained are more complex and the

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Calculation of a circular plate...

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B166/B102

tables to them are more extensive. The calculation of a circular foundation plate subjected to an annular load acting around the circumference is given as an example. Bibliography 4 titles. [Abstracter's note: Complete translation.]

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Card 2/2

GAPONTSEV, L.P.

Design of a sector slab using the method of finite differences.
Trudy Ural. politekh. inst. no.132:43-48 '62.

(MIRA 16:6)

(Elastic plates and shells)

GORYACHKO, K.V., podpolkovnik meditsinskoy sluzhby; KOLYADIN, M.I., pod-
polkovnik meditsinskoy sluzhby; GARONNIK, P.I., podpolkovnik medi-
tsinskoy sluzhby; SMIRNOV, P.I., mayor meditsinskoy sluzhby; VASILENKO,
P.V., mayor meditsinskoy sluzhby

Characteristics of an influenza outbreak among garrison personnel.
Voenn. - med. zhurn. no.1:54-56 1963. (MIRA 17:8)

CAPOSHKIN, F.

Bor'ba s pirantomaniiei-vazneishaia narodno-khoziais'tvennaia zadacha. / Fighting "Megalomania" is a very important objective of the national economy. (Planovoe khoz-vo, 1939, no. 4, p. 122-28).

"The main points appear to have been shortening of construction time, obtain production quickly. Most of article explains the new five-year plan decisions of the 18th Congress."

DLC: HC331.P52

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

GAPOSHKIN, F.

Potochnyi metod proizvodstva. Moskva, Gosplanizdat, 1943. 31 p. diagra.
(V pomoshch' ekonomicheskomu obrazovaniiu kadrov)

Assembly-line methods of production.

DLC: T60.A75G3

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GAPUSHKIN, F.

Potochnyi metod v promyshlennosti SSSR. Moskva, Gosplanizdat, 1946. 79 p. diagra.

Assembly-line methods in the Soviet industry.

DLC: T6C. A75E32

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953

GAPOSHKIN, S.I. (1955)

Two hundred and eighty-five variable stars observed in the direction of the center of the Galaxy [with summary in English]. Per.zvezdy 10 no.6:337-381 J1 '55. (MLRA 10:2)

1. Garvardskaya observatoriya, Kembridzh, Massachuzet, SShA.
(Stars, Variable)

Per.zvezdy 10 no.6:337-381 J1 '55.

GAPOSHKIN, V.F., Cand Phys Math Sci -- (diss) "Concerning the bases in Banach spaces and certain generalizations of them." Mos 1958, 8 pp. (Mos Order of Lenin and Order of Labor Red Banner State Univ in M.V. Lomonosov. Mechanics Math Faculty) 150 copies (KL, 39-58, 106)

- 4 -

16(1)

AUTHOR: Gaposhkin, V.F.

SOV/155-58-2-6/47

TITLE: On Summation Bases (O bazisakh summirovaniya)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 2, pp 24-27 (USSR)

ABSTRACT: The author considers the properties of the summation bases in separable Banach spaces. The definition of the T-bases due to Kozlov [Ref 1] is refined by distinguishing ordinary and weak T-bases. Besides still the notion of an unconditional base is used. 14 not very profound theorems are formulated and partly proved. Most interesting is the assertion that there exist no "universal" T-methods. There are 4 references, 2 of which are Soviet, 1 American, and 1 Hungarian.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

SUBMITTED: March 4, 1958

Card 1/1

68011

SOV/155-58-6-12/36

~~16(1)~~ 16.4000

AUTHORS: Gaposhkin, V.F., Olevskiy, A.M.

TITLE: On Absolutely Summable Numerical Series \ \

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 6, pp 81-86 (USSR)

ABSTRACT: Let $T = \{t_{nk}\}$ be a Töplitz method.

Theorem : If the series

$$(1) \quad \sum_{k=1}^{\infty} a_k$$

is absolutely T-summable, then it is $a_k = A + b_k$ ($k=1,2,..$)

where A is a fixed number and

$$\sum_{k=1}^{\infty} |b_k| < \infty . \quad A \text{ is different}$$

from zero only if the method T sums the series

$$(2) \quad 1 + 1 + \dots + 1 + ..$$



Card 1/2

68011

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On Absolutely Summable Numerical Series

SOV/155-58-6-12/36

The authors mention an example of I.I. Volkov.
There is 1 Polish reference.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

SUBMITTED: December 23, 1957 (Uspekhi matematicheskikh nauk)
October 24, 1958 (Nauchnyye doklady vysshey shkoly. Fiziko-
matematicheskiye nauki) ✓

Card 2/2

68012

16(1) 16.4000

SOV/155-58-6-13/36

AUTHOR: Gaposhkin, V.F.TITLE: On Absolutely Summable Series in Banach SpacesPERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,
1958, Nr 6, pp 87-95 (USSR)

ABSTRACT: The theorem proved by the author and A.M. Olevskiy in [Ref 1] (see the preceding paper of the present issue) is extended to Banach spaces. Furthermore the following question is considered: Let E be a separable Banach space. According to V.Ya. Kozlov [Ref 3] the system $\{x_k\}$, $x_k \in E$ is called T-basis in E, if to every element $x \in E$ there corresponds a unique series

$$(18) \quad \sum_{k=1}^{\infty} c_k x_k$$

which is T-summable to x with respect to the norm.

Theorem 3: Let T be a regular summation method. Every absolute T-basis in E is simultaneously an absolute basis.

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68012

13

On Absolutely Summable Series in Banach Spaces

SOV/155-58-6-13/36

The author mentions I.I. Volkov, and A.A. Talalyan.
There are 5 references, 3 of which are Soviet, 1 American, and
1 Polish.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

SUBMITTED: December 23, 1957

Card 2/2

AUTHOR: Gaposhkin, V.F. SOV/42-13-4-5/11

TITLE: On Unconditional Bases in the Spaces L^p ($p > 1$) (0 bezusloynykh
 bazisakh v prostranstvakh L^p ($p > 1$))

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 4, pp 179-184 (USSR)

ABSTRACT: A base is called unconditional if it remains a base for an arbitrary
 permutation of the elements.
 The system $\{f_k\}$ is called closed in the L^p if the closed linear
 closure of the elements of $\{f_k\}$ is identical with L^p . Let $\{f_k\}$
 be a closed minimal system in the $L^p[a, b]$; $\{\psi_k\}$ the conjugate
 system in the $L^{p'}[a, b]$, $p' = \frac{p}{p-1}$, let $\{\psi_k\}$ be closed in the
 $L^{p'}[a, b]$. Let to every $f \in L^p$ correspond the development
 $f \sim \sum_{k=1}^{\infty} (f, \psi_k) f_k$, where $(f, \psi_k) = \int_a^b f(x) \psi_k(x) dx$. Let the number
 sequence $\alpha = (a_1, a_2, \dots, a_n, \dots)$ belong to the space $A_p\{f_k\}$ if
 $\int_a^b \left[\sum_{k=1}^{\infty} a_k^2 f_k^2(x) \right]^{\frac{p}{2}} dx < \infty$. Let $\|\alpha\| = \mathcal{N}_p(\alpha) = \left\{ \int_a^b \left(\sum_{k=1}^{\infty} a_k^2 f_k^2(x) \right)^{\frac{p}{2}} dx \right\}^{\frac{1}{p}}$.

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On Unconditional Bases in the Spaces L^p ($p > 1$)

SOV/42-13-4-5/11

Definition: Let the system $\{f_k\}$ possess the property (A) if for every $f \in L^p$ the sequence $\{(f, \psi_k)\} \equiv \alpha_p$ belongs to the space $A_p \{f_k\}$. Definition: Let $\{f_k\}$ possess the property (B) if to every sequence $\{a_k\}$ of $A_p \{f_k\}$ there exists an $f \in L^p$ such that $(f, \psi_k) = a_k$.

Theorem: Let $\{f_k\}$ be a closed minimal system in the $L^p[a, b]$, $p > 1$, and let $\{\psi_k\}$ be the conjugate system. The system is an unconditional base in the $L^p[a, b]$ then and only then if it has the properties (A) and (B). If $f \in L^p$, $f \sim \sum_{k=1}^{\infty} (f, \psi_k) f_k$, then there exist constants m and M , $0 < m \leq M < \infty$ independent of f so that

$$m \left\{ \int_a^b \left[\sum_{k=1}^{\infty} (f, \psi_k)^2 f_k^2(x) \right]^{\frac{p}{2}} dx \right\}^{\frac{1}{p}} \leq \|f\| \leq M \left\{ \int_a^b \left[\sum_{k=1}^{\infty} (f, \psi_k)^2 f_k^2(x) \right]^{\frac{p}{2}} dx \right\}^{\frac{1}{p}}.$$

Theorem: No normalized system uniformly bounded in the L^p is an

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On Unconditional Bases in the Spaces L^p ($p > 1$)

SOV/42-13-4-5/11

unconditional base in the $L^p(a,b)$, $1 < p \neq 2$, $-\infty < a < b < \infty$.
There are 5 references, 2 of which are Soviet, and 3 Polish.

SUBMITTED: September 4, 1957

Card 3/3

AUTHOR: Gaposhkin, V.F. (Moscow) SOV/39-46-3-5/5
 TITLE: - A Generalization of the Theorem of M. Riesz on Conjugate Functions
 (Oдно obobshcheniye teoremy M. Rissa o sopryazhennykh funktsiyakh)
 PERIODICAL: Matematicheskiy sbornik, 1958, Vol 46, Nr 3, pp 359-372 (USSR)

ABSTRACT:

Theorem: Let $\int_{-\pi}^{\pi} |f(x)|^p \varphi(x) dx < \infty$, $p > 1$, where $\varphi(x) \in L(-\pi, \pi)$

and $\varphi(x) > 0$ almost everywhere and besides

$$\varphi(r, x) \geq c |\psi(r, x)|,$$

where

$$\varphi(z) \equiv \varphi(r, x) = \frac{1}{2\pi} \int_{-\pi}^{\pi} \varphi(t) \frac{1-r^2}{1-r^2-2r \cos(t-x)} dt, \quad 0 \leq r < 1, z = re^{ix},$$

$\psi(z) \equiv \psi(r, x)$ is the conjugate function and

$$c > \begin{cases} 0 & \text{for } p \geq 2 \\ \operatorname{tg} \frac{p\pi}{2} & \text{for } 1 < p \leq 2. \end{cases}$$

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A Generalization of the Theorem of M. Riesz on Conjugate Functions

SOV/39-46-3-5/5

Then there exists the integral $\bar{f}(x) = -\frac{1}{2\kappa} \int_{-\kappa}^{\kappa} f(x+t) \operatorname{ctg} \frac{t}{2} dt$

for almost all x and we have

$$\int_{-\kappa}^{\kappa} |\bar{f}(x)|^p \varphi(x) dx \leq \Lambda_{p,c} \int_{-\kappa}^{\kappa} |f(x)|^p \varphi(x) dx,$$

where $\Lambda_{p,c} = \text{const}$ depends only on p and c (not on $f(x)$).

There are 5 references, 3 of which are Soviet, and 2 Polish.

SUBMITTED: May 13, 1957

Card 2/2

USCOMM-DG-60984

16(1)

AUTHOR: Gaposhkin, V.F.

SOV/42-14-4-7/27

TITLE: On a Property of Unconditional Bases in the Space L^p

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 143-148 (USSR)

ABSTRACT: N.K.Bari [Ref 1] has shown that in the L^2 all unconditional bases are equivalent in the sense of I.M.Gel'fand. I.M.Gel'fand denotes two bases to be equivalent if one base can be obtained from the other base by application of an operator A , where A and A^{-1} are continuous. The author proves:

Theorem: In every space $L^p(a,b)$, $1 < p \neq 2$, $-\infty < a < b < \infty$ there exist non-equivalent unconditional bases.

For $(a,b) = (0,1)$ the proof is given by the fact that it is proved that the system of Haar which is an unconditional base

for $p > 1$ in the $L^p(0,1)$, can be rearranged so that the rearranged system is no longer equivalent to the initial system. There are 7 references, 3 of which are Soviet, and 4 Polish.

SUBMITTED: December 7, 1957

Card 1/1

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S/039/60/051/002/004/005
C111/C333

16.4200

AUTHOR:

Gaposhkin, V.F. (Moscow)

TITLE:

On systems $\{\varphi(nx)\}$ which are little different from the trigonometric system

PERIODICAL:

Matematicheskij sbornik, v. 51, no. 2, 1960, 239-252

TEXT:

The author considers systems

$$\{\varphi(nx)\}_{n=1}^{\infty}, \quad (1)$$

where $\varphi(x)$ is an odd function, $\varphi(x) \in L_2(-\pi, \pi)$, $\varphi(x+2\pi) = \varphi(x)$. Let

$$\varphi(x) = \sum_{k=1}^{\infty} b_k \sin kx. \quad (2)$$

Let $L_2^1(-\pi, \pi)$ denote the subspace of the odd functions from $L_2(-\pi, \pi)$;

let $C^1(-\pi, \pi)$, $L_p^1(-\pi, \pi)$ ($p \geq 1$) etc. be analogously defined.

Theorem 1: The system $\{\varphi(nx)\}$ is a Riesz basis in $L_2^1(-\pi, \pi)$ if and

only if the series

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S/039/60/051/002/004/005
C111/C333On systems $\{\varphi(nx)\}$ which are...

$$\phi(z) = \sum_{k=1}^{\infty} \frac{b_k}{k^z} \quad (3)$$

converges for $\sigma > 0$, $\phi(z)$ is analytic for $\sigma > 0$, and

$$K_1 \leq |\phi(z)| \leq K_2 \quad (\text{Re } z = \sigma > 0), \quad (4)$$

where K_1, K_2 are positive constants.

Assume that the following conditions are satisfied:

$$A) \quad K_1 \leq |\phi(z)| \leq K_2 \quad (\sigma > 0), \quad 0 < K_1 \leq K_2 < \infty$$

$$B) \quad \sum_{k=1}^{\infty} |b_k| < \infty$$

Let the operator Λ be defined by

$$\Lambda \sin kx = \varphi(kx) \quad (k=1,2,\dots) \quad (5)$$

Let

$$\psi_k(x) = (\Lambda^{-1})^* \sin kx \quad (6)$$

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C111/C333

On systems $\{\varphi(nx)\}$ which are...

be the system conjugate to $\{\varphi(nx)\}$, where the operator $(A^{-1})^*$ is adjoint to A^{-1} .

Theorem 2: Let R be one of the spaces $C^1(-\pi, \pi)$, $L_p^1(-\pi, \pi)$ ($p \geq 1$). The operator A is continuous in R , and for every $f(x) \in R$ it holds

$$Af = \sum_{k=1}^{\infty} b_k f(kx) \quad (7)$$

(the series converges in the sense of the metric of R). Moreover, the operator A^{-1} exists, it is defined and continuous in the entire R , where for every $g(x) \in R$ it holds

$$A^{-1}g = \sum_{k=1}^{\infty} B_k g(kx), \quad (8)$$

where

$$\sum_{k=1}^{\infty} |B_k| < \infty.$$

With the aid of the theorems 1 and 2 the author proves a number of theorems concerning the relation between the systems $\{\varphi(nx)\}$ and $\{\sin nx\}$. Let $f(x) \in R$ and
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On systems $\{\varphi(nx)\}$ which are...

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$$f(x) \sim \sum_{k=1}^{\infty} a_k \sin kx = \sum_1(f) \quad (a_k = (f, \sin kx); k=1,2,\dots)$$

$$f(x) \sim \sum_{k=1}^{\infty} \tilde{a}_k \varphi(kx) = \sum_2(f) \quad (\tilde{a}_k = (f, \psi_k); k=1,2,\dots), \quad (12)$$

furthermore

$$\sum_{k=1}^{\infty} a_k \varphi(kx) = \sum_3 \quad (a_k = (f, \sin kx); k=1,2,\dots).$$

Let $f(x) \in L'(-\pi, \pi)$, let $\sum_1(f)$ and \sum_3 be defined by (12).

Theorem 3: If $\sum_1(f)$ a) converges uniformly or b) converges everywhere and has bounded partial sums or c) converges almost everywhere and its partial sums have a summable majorant, then \sum_3 possesses the same properties, and conversely.

Theorem 4: Let $f(x) \in L'(-\pi, \pi)$ and $\sum_1(f)$, $\sum_2(f)$ be defined by (12).

If $\sum_1(f)$ a) converges uniformly or b) converges in L_p ($p \geq 1$) or

Card 4/5

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C111/C333

On systems $\{\psi(nx)\}$ which are...

c) converges everywhere and has bounded partial sums or d) converges almost everywhere and its partial sums possess a summable majorant, then $\sum_2(f)$ has the corresponding properties and conversely.

Theorem 5: The series $\sum_{k=1}^{\infty} |a_k|$ and $\sum_{k=1}^{\infty} |\tilde{a}_k|$ converge or diverge simultaneously.

The author mentions V.Ya.Kozlov, K.F.Malyavko and Z.N.Kazhdan. There are 16 references: 8 Soviet-bloc and 8 non-Soviet-bloc. The four most recent references to English-language publications read as follows: B.Bourgin, C.Mendel, Orthonormal sets of periodic functions of the type $\{f(nx)\}$, Trans.Amer.Math.Soc., 57 (1945), 332-363; A.Wintner, On Töpler's wave analysis, Amer.Journ.Math., 69 (1947), 758-768; Ph.Hartman, A.Wintner, Töplerian L^2 -bases, Trans.Amer.Math.Soc., 63 (1948), 207-225; O.Szász, On Möbius' inversion formula and closed sets of functions, Trans.Amer.Math.Soc., 62 (1947), 213-239.

SUBMITTED: October 21, 1958

Card 5/5

GAPOSHKIN, V.F.

The localization principle and the $\{\varphi(n x)\}$ systems. Dokl.
AN SSSR 144 no.1:17-18 My '62. (MIRA 15:5)

1. Predstavleno akademikom P.S.Novikovym.
(Fourier series) (Functions, Periodic)

GAPOSHKIN, V.F.

Principle of the critical point in Banach spaces. Dokl. AN SSSR
145 no.4:716-719 Ag '62. (MIRA 15:7)

1. Predstavleno akademikom P.S.Aleksandrovym.
(Banach spaces)

GAPOSHKIN, V.F. (Moskva); KADETS, M.I. (Khar'kov)

Operator bases in Banach spaces. Mat. sbor. 61 no.1:3-12
My '63.

(Banach spaces)

(MIRA 16:5)

GUTER, R.S.; KUDRYAVTSEV, L.D.; LEVITAN, B.M.; UL'YANOV, P.L.,
red.; LYUSTERNIK, L.A., red.; YANFOL'SKIY, A.R., red.;
GAPOSHKIN, V.F., red.; KOPYLOVA, A.N., red.; PLAKSHE,
L.Yu., tekhn. red.

[Elements of the theory of functions; functions of real
variables, approximation of functions; almost periodic
functions] Elementy teorii funktsii; funktsii deistvitel'-
nogo peremennogo, priblizhenie funktsii, pochni-periodi-
cheskie funktsii. Moskva, Fizmatgiz, 1963. 244 p.
(MIRA 16:12)

(Functions)

VILENKIN, N.Ya.; GORIN, Ye.A.; KOSTYUCHENKO, A.G.; KRASNOSEL'SKIY,
M.A.; KREYN, S.G.; MASLOV, V.P.; MITYAGIN, B.S.; PETUNIN,
Yu.I.; RUTITSKIY, Ya.B.; SOBOLEV, V.I.; STETSENKO, V.Ya.;
FADDEYEV, L.D.; TSITLANADZE, E.S.; LYUSTERNIK, L.A., red.;
YANPOL'SKIY, A.R., red.; GAPOSHKIN, V.F., red.

[Functional analysis] Funktsional'nyi analiz. [By] N.IA.
Vilenkin i dr. Moskva, Izd-vo "Nauka," 1964. 424 p.
(MIRA 17:6)

GAPOSHKIN, V.F. (Moskva)

Principle of localization and systems of the tyep
sbor. 63 no.3:459-488 Mr '64.

$\{\varphi(nx)\}$. Mat.
(MIRA 17:4)

GAPOSHKIN, V.F. (Moskva)

Critical points of functionals in Banach spaces. Mat. shor. 64
no.4:589-617 Ag '64. (MIRA 17:11)

GAPOSHKIN, V.F.

Convergence of orthogonal series. Dokl. AN SSSR 159 no.2:
243-246 N '64. (MIRA 17:12)

1. Predstavleno akademikom P.S. Novikovym.

GARDNER, G. F.

Weyl's factors for Fourier series of characteristic functions.
Usp. mat. nauk 20 no.4:142-147 31-Ag '65.

(MIRA 18:8)

L 9654-66

EWT(d)/T

IJI (c)

ACC NR: AP5028975

SOURCE CODE: UR/0052/65/010/003/0449/0459

AUTHOR: ^{911, 55} Gaposhkin, V.F. (Moscow)

ORG: none

TITLE: Law of iterated logarithm for Cesaro and Abel summation methods

SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 10, no. 3, 1965, 449-459

TOPIC TAGS: function theory, ^{16,44,55} probability, ^{16,44,55} iteration, asymptotic method

ABSTRACT: Let $\{r_k\}$ be a sequence of independent random quantities taking the values of +1 and -1 with equal probability. One of the basic laws describing the asymptotic behavior of the sum is the law of the iterated logarithm

$$\sum_{k=1}^n r_k$$

$$\lim_{n \rightarrow \infty} \frac{\sum_{k=1}^n r_k}{\sqrt{2n \log \log n}} = 1 \quad (1)$$

Card 1/2

L 9654-66

ACC NR: AP5028975

established by A. Khintchine (Fund. Math., 6, 1924, 9-20). Following the generalization of this law it became interesting to find those methods of summation to which the law of iterated logarithm (with an appropriate normalization) can be applied. The present author shows that the law is valid for the case of Cesaro (C, α) (for arbitrary $\alpha > 0$) and Abel summations. The proof is based on exponential estimates due to A.N. Kolmogorov and is simpler than the one given by O. Stackelberg (On the law of iterated logarithm, Proc. Kon. Ned. Akad. Wet., Ser. A, 67, 1 (1964), I, 48 - 55; II, 56 - 67.) for the $(C, 1)$ case. Orig. art. has: 76 formulas.

SUB CODE: 12 / SUBM DATE: 25Nov64 / ORIG REF: 001 / OTH REF: 007

Card 2/2

L 29098-66 -EWT(d)/T IJP(c)

ACC NR: AP6019385

SOURCE CODE: UR/0042/65/020/004/0142/0147

AUTHOR: Gaposhkin, V. F.

ORG: none

TITLE: Weyl factors for Fourier series of characteristic functions.

SOURCE: Uspekhi matematicheskikh nauk, v. 20, no. 4, 1965, 142-147

TOPIC TAGS: Fourier series, function

ABSTRACT: Let $E \subset [0, 1]$ be some measurable set and $\psi(x)$ its characteristic function. Investigations have been made of the convergence of the Fourier series of the function $\psi(x)$:

$$\psi(x) - \frac{a_0}{2} + \sum_{n=1}^{\infty} a_n \cos 2\pi nx + b_n \sin 2\pi nx,$$

with this question being reduced, on the whole, to an investigation of the characteristic functions of the open sets

$G = \bigcup_{n=1}^{\infty} \delta_n$, where $\delta_n \subset (0, 1)$ are non-intersecting intervals.

The author is of the opinion that for characteristic functions of open sets a close connection exists between the convergence of the

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UDC: 517.5

L 29098-66

ACC NR: AP6019385

$$\sum_{n=1}^{\infty} \delta_n \omega \left(\frac{1}{\delta_n} \right)$$

0

[series and

$$\sum_{n=1}^{\infty} (a_n^2 + b_n^2) \omega(n)$$

for a wide class of increasing functions $\omega(u)$. The purpose of the article is to establish the connection between the structural properties of characteristic functions and their Weyl factors. A simple modification of the ALEXITS-KRALIK theorem is used. Orig. art. has: 13 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 18May63 / ORIG REF: 007 / OTH REF: 001

Card 2/2 CV

MARTYNIENKO, V.V.; GAPOTCHENKO, A.G.

Observations of noctilucent clouds on June 29, 1957. Astron. tsir.
no.187:25 D '57. (MIRA 11:6)

(Clouds)

ACC NR: AP6034220

SOURCE CODE: UR/0120/66/000/005/0060/0066

AUTHOR: Gapotchenko, A. G.; Govorkov, B. B.; Denisov, S. P.; Kotel'nikov, N. G.; Stoyanova, D. A.

ORG: Physics Institute of the Academy of Sciences, SSSR, Moscow (Fizicheskiy institut AN SSSR, Moskva)

TITLE: A spark chamber as a detector of high-energy electron and photo showers

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 60-66

TOPIC TAGS: spark camera, spark chamber, electron energy, *ELECTRON DETECTION*

ABSTRACT: Characteristics of a multi-plate spark chamber used as a detector of γ -quanta and electron showers whose energies range between 50 and 200 Mev are studied. The total number of sparks formed in the camera while it is registering showers is proportional to the energy of primary particles; the average number of sparks is linearly related to the primary particle energy. Fluctuations in the total number of sparks varies according to Poisson's law. A formula relating the thickness of the chamber electrodes with the camera resolution is derived. Data on spark distribution along the shower axis and on the effectiveness of the camera in registering γ -quanta are given. Orig. art. has: 8 figures.

SUB CODE: 20, 14/ SUBM DATE: 09Nov65/ ORIG REF: 003/ OTH REF: 006

UDC: 539.1.073

Card 1/1

KRUPITSA, K.K., inzhener; GAPOTCHENKO, A.I., inzhener; S. ILOKIN, A.M.,
inzhener

Three-ton capacity two cantilever crane. Rats. i izobr.predl. v stroi
no.109:14-17 '55. (MLRA 8:12)

(Cranes, derricks, etc.)

GAPOYAN, K. A.: Master Med Sci (diss) -- "The dynamics of changes in the intraorganic vessels of the ovaries at various stages of pregnancy". Moscow, 1958. 14 pp (Min Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, No 4, 1959, 130)

YARKHIN, Ya.I., inzh.; RIZAYEV, R.G., inzh.; KASATKIN, A.O., inzh.; GAPOYAN,
P.M., inzh.

Testing high-strength steel-reinforced concrete plates. Prom.
stroi. 42 no.1:22-25 '65. (MIRA 18:3)

GAPPAROV, E.I., aspirant

Pathomorphology of Besnoitia infestation of cattle.
Veterinariia 42 no.11:51-53 N '65.

(MIPA 19:1)

1. Alma-Atinskiy zootekhnicheskoye-veterinarnyy institut.

CHIKHLADZE, Georgiy Yevseyevich; MESKHI, Ketevan Georgevna;
GAPRINDASHVILI, David Solomonovich; GOGAVA, Levan
Aleksandrovich

[Program controlled machine tools] [Metallorzhushchie
stanki s programmym upravleniem. Tbilisi, Gos.izd-vo
"Tsodna"] 1963. 146 p. [In Georgian] (MIRA 17:4)

KUTATELADZE, K.S., doktor tekhn. nauk; KHIZANISHVILI, I.G., kand. tekhn. nauk; GAPRINDASHVILI, G.G., inzh.

Black andesite glaze. Stek. i ker. 20 no.8:38-39 Ag '63.
(MIRA 16:11)

1. Nauchno-issledovatel'skiy institut promyshlennosti
stroitel'nykh materialov i silikatov soveta narodnogo
khozyaystva Gruzinskoy SSR.

KHIZANISHVILI, I.G., kand.tekhn.nauk; GAPRINDASHVILI G.G., inzh.

Andesite glaze for products made of ordinary pottery clay.
Stek. i ker. 21 no.9:30-31 S '64. (MIRA 18:4)

1. Tbilisskiy gosudarstvennyy nauchno-issledovatel'skiy institut stroitel'nykh materialov.

KHIZANTSHVILI, I.G., kand.tekhn.nauk; GAPRINDASHVILI, G.G., inzh.;
SHUSHANISHVILI, A.I., inzh.

Glaze with a "crackle" finish on a perlite base. Stek. i ker. 22
no.6:13-14 Je '65. (MIRA 18:6)

1. Tbilisskiy nauchno-issledovatel'skiy institut stroymaterialov.

KHIZANESHVILI, G.G., *ing.*; GABRIELASHVILI, G.G., *ing.*

Crystal glaze for ceramic products. *Stek. 1 ker. 22 no.7:*
30-31 01 '65. (MIRA 18:9)

1. Tbilisskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov.

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82534

Author : Gapriidashvili, G.V.

List :

Title : Effectiveness of a Combined Application of Organic and Mineral Fertilizers.

Orig Pub : Sad i ogorod, 1957, No 7, 64-65

Abstract : A production trial in the application of NPK and manure under the vineyards in Georgian Soviet Socialist Republic, which produced a 30% increase in yield, is described.

Card 1/1

GAPRINDASHVILI, G. V.

USSR / Cultivated Plants. Fruit Trees. Small
Fruit Trees.

M-7

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73173.

Author : Gaprindashvili, G. V.

Inst : Not given.

Title : Influence of Rootstocks on Harvest Yield and Quality of Grape.

Orig Pub: Sad i ogorod, 1958, No 2, 75-76.

Abstract: No abstract.

Card 1/1

GORDEZIANI, Karlo Shalvovich; GORDEZIANI, Marlen Shalvovich;
GAPRINDASHVILI, Iosif Silovanovich .

[Labeled atoms and their use in agriculture] [Mechenye
atomy i ikh.primenenie v sel'skom khoziaistve. Tbilisi,
Sabchota Sakartvelo] 1965. 138 p. [In Georgian]
(MIRA 18:8)

ACC NR: AP6032374

(N)

SOURCE CODE: UR/0251/66/043/001/0105/0108

AUTHORS: Mitagvariya, G. P.; Gaprindashvili, Kh. I.

ORG: Academy of Sciences, Georgian SSR, Institute of Cybernetics, Tiflis (Akademiya nauk Gruzinskoy SSR, Institut kibernetiki)

TITLE: Crystalline glass material with piezoelectric properties

SOURCE: AN GruzSSR. Soobshcheniya, v. 43, no. 1. 1966, 105-108

TOPIC TAGS: piezoelectric property, glass product, glass property

ABSTRACT: Thermal treatment of glass of the system B_2O_3 - Bi_2O_3 - TiO_2 - BaO , with subsequent polarization, results in partial crystallization which imparts piezoelectric properties to the material. Electrical properties of this product were studied. The starting material was subjected to thermal treatment of 625 and 690C because thermographic analysis has shown formation of two distinct crystalline forms at these temperatures. The thermally treated product was polarized at room temperature in an electrical field of 15 kv/cm. The piezomodulus, measured by a static method, was found equal to $1.1 \cdot 10^{-8}$ electrostatic units. Dielectric permeability, measured at 20 to 580C, varied from 73 to 186. It was assumed that crystals of the type $Ba_{1+n}Bi_{4+n}Ti_{12+3n}O_{12+3n}$, where $n = 1, 2, 3$, were formed during the crystallization process

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ACC NR: AP6032374

and that they are uniformly distributed through the glassy material. The authors express their gratitude to the coworkers at the Institute of Crystallography, I. S. Zheludev and Yu. S. Likhacheva, for help in taking the measurements. This paper was presented by corresponding member AN GruzSSR N. A. Landia on 5 July 1965. Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 05Jul65/ ORIG REF: 004/ OTH REF: 001

Card 2/2

SECRET
ACC No: AN7003084

SOURCE CODE: UR/0251/66/043/003/0691/0693

AUTHOR: Gaprindashvili, Kh. I; Kholaya, L. T.

ORG: Institute of Cybernetics, AN GruzSSR, Tbilisi (Institut Kibernetiki, AN GruzSSR)

TITLE: Luminescing optical fiber for CRT screens

SOURCE: AN GruzSSR. Soobshcheniya, v. 43, no. 3, 1966, 691-693

TOPIC TAGS: luminescent material, luminophor, fiber optics

ABSTRACT: The production of CRT screens from luminescent fibers, a new area in fiber optics, eliminates the process and the problem of application of the luminophor to the screen of a CRT. The authors of this article use luminescent glass in the form of silicate glass plus an activator of trivalent cerium. The cerium content varies from 0.8 to 6%. The absorption spectra of the fiber plates were measured on a spectrophotometer, using samples 0.11mm thick. These plates have absorption in the 270-340 mu band with a maximum at 313 mu. The luminescence maximum was found to be in the wave length area 420-425 mu. The illumination is blue in color. This paper was presented by corresponding member Academician AN GruzSSR N. V. Gabashvili on 14 October 1965. Orig. art. has: 1 tablo. [JPRS: 38,836/

Card 1/1 SUB CODE: 20 / SUBM DATE: 14Oct65 / ORIG REF: 003

0935 2032

ACC NR: AP6029047 (A) SOURCE CODE: UR/0413/66/000/01L/0072/0072

INVENTORS: Gaprindashvili, Kh. I.; Mitagvariya, G. P.

ORG: none

TITLE: Glass. Class 32, No. 183913 [announced by Cybernetics Institute of the Academy of Sciences, Georgian SSR (Institut kibernetiki Akademii nauk Gruzinskoy SSR)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 72

TOPIC TAGS: glass, bismuth compound, barium compound, boron compound, titanium compound, piezoelectricity, piezoelectric crystal

ABSTRACT: This Author Certificate presents a glass containing Bi_2O_3 , BaO , B_2O_3 , and TiO_2 . To obtain crystalline glass materials with piezoelectric properties, the above components are taken in the following amounts (by wt %): Bi_2O_3 55--61, BaO 15--20, B_2O_3 9--13, TiO_2 8--11.

SUB CODE: 11/ SUBM DATE: 23Jul65

Card 1/1

UDC: 666.113.87:022:431:27

GAPRINDASHVILI, N. K.

Dec 52

USSR/Biology - Phosphoroorganic Compounds

"Research on the Action of Phosphoroorganic Compounds on Entomophages Harmful to the Subtropical Cultures of the Georgian SSR," Cand Agric Sci N. K. Gaprindashvili, T. N. Novitskaya (Submitted by the Section of Plant Protection, All Union of Agric Sci imeni V. I. Lenin)

Dok V-S ord Lenina Akad selkhoz nauk imeni V. I. Lenina, No 12, pp 11-15

Describes experiments in which subtropical and citrus plants were sprayed and/or pollinated with new

compds NIUIF-100 (Thiophos) and Pyrophos as a protection against harmful insects. Used in a solution of 0.5%-3% (with reference to a concentrated soln) these preparations proved far more efficient than previously used insecticides such as sodium cyanide, oil emulsions etc., causing a 100% destruction of all entomophages present in the plant. Observations showed that the lethal effect remained for 48 hours, after which it gradually decreased, and in 72 hours was completely eliminated. Observations also demonstrated that the spray or pollination with the new compounds did not affect adversely the eggs of coccidia and mites, or any insect protected by concealment during the operation.

(
--Fifteen to 20 days after the operation the plants became infested with insects, as a result of the absence of their natural enemies, the entomophages. The authors advocate a method combining biological and chemical insecticide measures. They suggest releasing a fresh supply of entomophages onto the plant after an increase of coccidia has been noted.

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GAPRINDASHVILI, N.K.; TVALAVADZE, Yu.I.

Study of entomophages of the San Jose scale in eastern Georgia
[in Georgian with summary in Russian]. Trudy Inst. zashch.
rast. AN Gruz. SSR 9:159-164 '53. (MIRA 8:2)
(Georgia--San Jose scale)

GAPRINDASHVILI, N.K.

Results of studying *Lindorus lophanthae* (Blaisd.) as an entomophagous insect combating certain species of coccids on the Black Sea coastline of the Adzhar A.S.S.R. Zool.zhur. 33 no.3:587-597 My-Je '54. (MLRA 7:7)

1. Institut zashchity rasteniy Akademii nauk Gruzinskoy SSR. (Adzhar A.S.S.R.--Scale insects) (Scale insects--Adzhar A.S.S.R.) (Insects, Injurious and beneficial--Biological control)

USSR/General and Specialized Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 40087

Author : Haprindashvili, N.K., Novitskaya, T.N.

Inst :

Title : Intraplant Insecticides and the Biological Methods of Controlling Pests.

Orig Pub : Agrobiology, 1957, No 1, 104-108

Abstract : Octamethyl, which in a 0.2-0.3% concentration led to the death of all the red citrus mites, was ineffective when used against scale insects. Octamethyl was less toxic to the silver mite than to the red mite. In the above concentration, Octamethyl did not kill the natural enemies of the scale insects: the cryptolaemus, the rodolia, the lyndorus, the khylokorus, nor the predatory mites, which destroyed the plant eating injurious mites. The entomophagi continue to eat profusely and to multiply even after treatment with this insecticide. While

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Handwritten signature or scribble

NSR/General and Specialized Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 40087

Octamethyl did not kill the useful stethorus beetle (in its contact with treated plants), some of its larvae and beetles perished when they fed on poisoned mites. The use of Octamethyl in the control of citrus pests made it possible to effectively combine chemical and biological methods in the control of pests. Mercaptophos in a 0.1% concentration which was highly effective against the red and silver mites was considerably less toxic to the coccinellids, but caused the total destruction of all the useful entomophagi soon after spraying and when the entomophagi were added after the treatment. Because of this fact Mercaptophos cannot be recommended for the control of citrus pests. -- I.A. Rubtsov.

Card 2/2

- 36 -

GAPRINDASHVILI, N.K.; NOVITSKAYA, T.N.

Preserving predaceous mites in chemically treated orchards of Georgia. Agrobiologia no. 1:114-121 Ja-F '61. (MIRA 14:2)

1. Institut zashchity rasteniy Akademii sel'skokhozyaystvennykh nauk Gruzinskoy SSR, g. Tbilisi.
(Georgia—Mites)

GAPRINDASHVILI, N.K., kand. sel'skokhoz. nauk

Controlled increase of the cold resistance of the entomophagous insects *Lindorus lophanthal*. *Agrobiologia* no.6: 836-843 N-D '63. (MIRA 17:2)

1. Institut zashchity rasteniy, Tbilisi.

GAPRINDASHVILI, N.K.; ISARLISHVILI, S.Ya.; MOSULISHVILI, N.M.

Biological control of the citrus whitefly by means of the fungus
Aschersonia aleurodis Webber. Agrobiologia no.3:255-261
Mr-Apr '65. (MIRA 18:11)

1. Institut zashchity rasteniy, Tbilisi.

BEKAURI, N.G.; DEHASHIASHVILI, T.B.; GABRIELASHVILI, M.M.; KVACHADZE, N.

Hydrogenation of phenol in the presence of new catalysts.
Sob. AN Gruz. SSR 34 no.1389 Ap'62 (MIRA 1237)

Name: GAPRINDASHVILI, Shot Gerasimovich
Dissertation: Phonetics of the Darghinic Language
(on the basis of dialects)
Degree: Doc Philological Sci
Affiliation: Staliniri State Pod Inst
Defense Date, Place: 25 May 56, Council of Inst of Linguistics,
Acad Sci USSR
Certification Date: 16 Mar 57
Source: BMVO 13/57

APPROVED FOR RELEASE: 07/19/2001

137-58.6.11990
CIA-RDP86-00513R000514310012

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 114 (USSR)

AUTHORS: Agladze R.I., Yaroslavskaya, M.A., Gaprindashvili, V.N.

TITLE: A Hydrometallurgical Method for Processing of a Sulfide
Antimony-arsenic Ore Containing Noble Metals (Pererabotka
sul'fidnoy sur'myano-mysh'yakovistoy rudy, soderzhashchey
blagorodnyye metally, gidrometallurgicheskim sposobom)

PERIODICAL: Tr. in-ta metallurg. gorn. dela. AN GruzSSR, 1957, Vol 8,
pp 111-116

ABSTRACT: A process was investigated whereby Sb and As are extracted
preliminarily by means of alkaline and alkaline-sulfide solu-
tions. In order to study the process, 100-g batches of ore,
crushed to a particle size of 2-3 mm, were employed in each
experiment. The temperature of the pulp was maintained at
90°C, the liquid-to-solid ratio at 4:1. The process of leaching
lasted 30 minutes. It was established that a solution of Na₂S is
the most effective solvent for sulfidic Sb and As minerals. At
an Na₂S concentration of 7-10% and under the condition de-
scribed above, the extraction of Sb and As (at a temperature of
80-90°C) reaches 98-100% and 30-40%, respectively. Up to

137-58 6-11990

A Hydrometallurgical Method for Processing of a Sulfide (cont.)

90-92% of As can be obtained in the form of As_2O_3 by means of heating the tailings from one-stage leaching operations to a temperature of 500-600° for a period of 2-3 hours in presence of air. By leaching the ore twice with a solution of Na_2S and $NaOH$ up to 50-60% of As can be extracted, the extraction of Sb being equal to 100%. Tailings that do not contain any Sb may be subjected to cyanidation in order to extract the noble metals. The As content in the tailings amounts to 0.15-0.17%.

G.S.

1. Ores--Processing
2. Antimony--Separation
3. Arsenic--Separation
4. Sodium sulfide--Solvent action
5. Rare earth elements--Separation
6. Cyanides--Applications

Card 2/2

137-58-6-11993

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 115 (USSR)

AUTHORS: Agladze, R.I., Yaroslavskaya, M.A., Gaprindashvili, V.N.

TITLE: Utilization of Alkaline-sulfide Antimony Solutions Obtained by Leaching of Antimony Ore With a Sodium Sulfide Solution (Ispol'zovaniye shchelochno-sal'fidnykh rastvorov sur'my, poluchennykh vyshchelachivaniyem sur'myanoy rudy rastvorom sernistogo natriya)

PERIODICAL: Tr. in-ta metallurgii i gorn. dela. AN GruzSSR, 1957, Vol 8, pp 117-126

ABSTRACT: Investigations were performed in order to determine how the quality of Sb and its current efficiency are affected by basic factors of electrolysis. Optimal electrolysis results were obtained under the following conditions: composition of electrolyte prior to the electrolysis (figures in parenthesis represent the composition of the electrolyte after completion of the electrolysis process): 40-30 g/l of Sb (15-10), 40-60 g/l of NaOH (15-10), 40-60 g/l of Na₂S (80-90), 30-40 g/l of Na₂S₂O₃ temperature, 25-30°C, cathode ϵ d=150-250 a/m²; the cathode was made of stainless steel, the anode of lead.

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137-58-6-11993

Utilization of Alkaline sulfide Antimony Solutions (cont.)

At a cd of 150-250 a/m² the cathode becomes covered with a layer of 99% pure metallic Sb, the current efficiency being equal to 55-60%. 0.01-0.02% of As separates out at the cathode together with Sb. When ceramic baffles are employed the current efficiency of Sb is 10% greater than in electrolytic baths not so equipped.

G.S.

1. Antimony ores--Electrolysis
2. Electrolytes--Composition
3. Electrolytic cells
- Performance
4. Antimony--Electrical properties

Card 2/2

137-58-6-11995

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 115 (USSR)

AUTHORS: Agladze, R. I., ~~Gaprindashvili, V. N.~~, Mzareulishvili, N. V.
TITLE: Regeneration and Processing of a Spent Electrolyte Obtained
During the Electrolysis of Alkaline-sulfide Antimony Solutions
(Regeneratsiya i pererabotka otrabotannogo elektrolita, polu-
chenogo pri elektrolize shchelochno-sul'fidnykh rastvorov
sur'my).

PERIODICAL: Tr. In-ta metalla i gorn. dela. AN GruzSSR, 1957, Vol 8,
pp 127-134

ABSTRACT $Ba(OH)_2$ was employed in regeneration of a spent electrolyte
while natural pyrolusite and permanganate were used for its
processing. In the case of $Ba(OH)_2$ best regeneration results
(85%-90%) are achieved by means of vigorous stirring of the
mixture for a period of one hour after it had been heated to a
temperature of $100^{\circ}C$. the relation: $Na_2S_2O_3 + Na_2CO_3 / Ba(OH)_2$
therein is equal to 4. A 100% transformation of Na_2S into $NaOH$
and $Na_2S_2O_3$ is achieved by means of introducing pyrolusite
(62.3% MnO_2) into the spent electrolyte in an amount equal to
the ratio $MnO_2 / Na_2S = 1.5 - 2$, as well as by vigorous stirring of
the mixture over a period of 2 hours after heating it to a

Card 1/2

137-58-6-11995

Regeneration and Processing of a Spent Electrolyte (cont.)

temperature of 90-100°. In order to separate the Sb completely, it is essential that the quantity of CO₂ passing through the solution be greater than is required stoichiometrically.

G.S.

1. Electrolytes--Processing
2. Electrolytes--Regeneration
3. Antimony
--Electrolysis
4. Barium hydroxides--Applications
5. Permanganates--Applications
6. Manganese dioxides--Applications

Card 2/2

137-58-6-11992

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 115 (USSR)

AUTHORS Agladze, R.I., Gaprindashvili, V.N., Mzareulishvili, N.V.,
Lomidze, T.N.

TITLE Cementation of Antimony With Metallic Precipitants (Tsemen-
tatsiya sur'my metallicheskim osaditelyami)

PERIODICAL Tr. In-ta metalla i gorn. dela. AN GruzSSR, 1957, Vol 8,
pp 135-140

ABSTRACT Conditions permitting maximum extraction of Sb from solu-
tions were studied and various other precipitants were investi-
gated in an effort to replace them with Al. The degree of ex-
traction of Sb increases as the quantity of metallic Al intro-
duced into the reacting mixture is increased; it reaches a max-
imum when the amount of Al is twice as great as the stoichio-
metric value. Introducing an excess of NaOH into the initial
solution reduces the duration of the cementation process from
3 to 1.0-1.5 hours and increases the degree of extraction of Sb
(up to 94%). In the case of aluminum-silicon the degree of Sb
extraction increases with increasing temperature and reaches
its maximum value (65.8%) at 100°C. Maximum extraction of
Sb (98.8%) is attained at an Sb-SiAl ratio of 8. G.S.

Card 1/1

1. Antimony--Separation 2. Solutions--Properties 3. Aluminum--Effectiveness
4. Sodium hydroxide--Effectiveness

137-58-6-11991

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 115 (USSR)

AUTHORS: Agladze, R.I. Caprindashvili, V.N., Mzareulishvili, N.V.

TITLE Raw Ammonia Water Dissolves Sulfide Minerals Containing Antimony and Arsenic (Svraya ammiachnaya voda kak rast voritel' sul'fidnykh mineralov sur'my i mysh'yaka)

PERIODICAL Tr. In-ta metalli i gorn. dela. AN GruzSSR, 1957, Vol 8, pp 141-146

ABSTRACT The process of leaching of sulfide Sb and As ores with raw ammonia water was investigated. Up to 90-92% of Sb and 80-85% of As can be extracted in a leaching operation provided the ore is crushed to a particle size of 2-3 mm, the liquid-to-solid ratio is approximately 2:1, and the pulp is vigorously stirred for a period of one hour. As and Sb are separated from ammoniacal solutions in the form of sulfides.

G.S.

1. Ores--Processing
2. Antimony sulfides--Solubility
3. Arsenic sulfides--Solubility
4. Ammonia-Solvent action

Card 1/1

137-58-6-11994

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 115 (USSR)

AUTHORS Agladze, R.I., Gaprindashvili, V.N., Basmanova, S.N.

TITLE Carbonization of Alkaline Sulfide Antimony Solutions (Karbonizatsiya shchelochno-sul'fidnykh rastvorov sur'my)

PERIODICAL Tr. In-ta metalli i gorn. dela. AN GruzSSR, 1957, Vol 8, pp 147-153

ABSTRACT The carbonization process was carried out in a 300-cc reaction vessel. 98% of CO₂ from a tank were introduced through a constant-pressure vessel. The quantity of gas being supplied to the reactor vessel was determined by means of a transparent tube-type flow gage. The carbonization of the solution showed that the reaction of Sb sulfo salt with CO₂ produces an Sb sulfide precipitate and that the compound NaHCO₃ forms in the solution accompanied by the liberation of H₂S. If the temperature is raised to 100°C the carbonization process terminates in the formation of Na₂CO₃. The amount of CO₂ needed for complete carbonization of the solution is a direct function of the concentration of Sb in the solution. Best results were obtained by carrying out the process at room temperature, by increasing

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137-58-6-11994

Carbonization of Alkaline Sulfide Antimony Solutions

the height of the bubbler column to 5 m, by passing the CO₂ at a volumetric rate of 1.0-1.5 l/hr, and by employing solutions the Sb content of which does not exceed 20 g/l.

G.S.

1. Antimony--Carbonization
2. Antimony sulfide--Chemical reactions
3. Carbon dioxide--Chemical reactions

Card 2/2

137-58-6-11978

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 113 (USSR)

AUTHORS: Agladze, R.I., Gaprindashvili, V.N., Mzareuligivili, N.V.

TITLE: Extraction of Arsenic From Sulfidic Arsenous Ores (Polucheniye mysh'yaka iz sul'fidnykh mysh'yakovistykh rud)

PERIODICAL: Tr. In-ta metalla i gorn. dela. AN GruzSSR, 1957, Vol 8, pp 155-161

ABSTRACT: The process of leaching of sulfide As ores with alkaline and alkaline-sulfide solutions was studied, and the possibility of extraction of As from these solutions was investigated. Na_2S solution was employed in the leaching process. 95% of As can be extracted by a 6% solution of Na_2S from a pulp that has been stirred for a period of four hours, while 91.7% can be extracted by a 13-percent NaOH solution. Metallic As may be extracted from alkaline-sulfide As solutions by means of carburization. By neutralizing alkaline-sulfide solutions with H_2SO_4 the As can be extracted completely in the form of arsenopyrite.

G.S.

1. Ores--Processing
2. Molybdenum ores--Flotation
3. Minerals--Separation

Card 1/1

GAPRINDASHVILI, V.N.

Electrolytic purification of antimony in alkali-sulfide solutions.
Soob. AN Gruz. SSR 20 no. 2:171-178 F '58. (MIRA 11:7)

1. AN GruzSSR, Institut prikladnoy khimii i elektrokhemii, Tbilisi.
Predstavleno akademikom R.I. Agladze.
(Antimony--Electrometallurgy)

GAPRINDASHVILI, V.N.

PHASE I BOOK EXPLOITATION

SOV/5277

Akademiya nauk Gruzinskoy SSR. Institut prikladnoy khimii i elektro-
tekhniki.

Trudy, t. 1 (Academy of Sciences of the Georgian SSR. Institute of Applied
Chemistry and Electrochemistry. Transactions) v. 1. Tiflis, 1960.
186 p. Errata slip inserted.

Personalities cannot be established in Georgian writing.

PURPOSE: This collection of articles is intended for mineralogists, metal-
lurgists, and mining specialists.

COVERAGE: The collection contains articles concerning recent research on
methods for treating antimony- and arsenic-bearing ores and carbonate
ores of manganese. Research on the electrochemical properties of certain
ores and their electrodeposition is also discussed. The collection includes

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Institute of Applied Chemistry (Cont.)

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studies on the corrosion and electrical properties of certain alloys, studies of the properties of certain cements and cement components, and studies of certain phases of the cement production process. The following personalities are mentioned: Professor N. A. Figurovskiy and his scientific assistant T. B. Gavrilova (p. 118, bottom); R. I. Agladze, Academician, AN GSSR (AS Georgian SSR) (p. 150); S. D. Dzhaparidze and N. I. Lagidze (p. 171). The articles which are written in Georgian are followed by a resumé in Russian. References accompany each article.

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Card 2/5

GAPRINDASHVILI, V.N.

Studying the potentials of certain sulfide minerals. Soob. AN
Gruz. SSR 24 no. 4:407-414, Ap '60. (MIRA 13:7)

1. AN Gruz SSR, Institut prikladnoy khimii i elektrokhemii, Tbilisi.
Predstavleno akademikom R. I. Agladze.
(Sulfides--Electric properties)

ADLADZE, V.I.; GAFRIL'S VILE, V.F.

Hydrometallurgical processing of antimony ore from the Zopkhitskoye deposit. Trudy Inst. prikl. khim. i elektrokhim. An Gruz. SSR no. 1:33-50 '80.

(MIRA 14:2)

(Sov. Akad. Nauk)

AGLADZE, R.I.; GAPRINDASHVILI, V.N.; BASMANOVA, S.N.

Preparation of arsenic trisulfide. Trudy Inst. prikl. khim. i
elektrokhim. AN Gruz. SSR no. 1:125-130 '60. (MIRA 14:2)
(Arsenic sulfide)

GAPRENDASHVILI, V.M.

Cementation of antimony from alkali sulfide solutions. Trudy Inst.
prikl. khim. i elektrokhim. Ak. Gruz. SSR no. 1:131-138 '60.

(SIRA 14:2)

(Antimony) (Alkali metal sulfide)