

GALEA, Gh., conf.; MICHEL, J., dr.; ALEXE, E., dr.

A case of luetic paroxysmal hemoglobinuria. Serological aspects.
Med. Intern., Bucur 12 no.11:1683-1685 N '60.

1. Lucrare efectuata in Clinica medicala, Spitalul "Brincovenesc",
I.M.F. Bucuresti.
(HEMOGLOBINURIA, PAROXYSMAL case reports)
(SYPHILIS complications)

.....IA

GALEA, Gh., Lecturer; BUCUR, H., MD; CONSTANTINESCU, M., MD;
ALEXU, E., MD; BRACHE, M., MD.

Medical Clinic of the "Erincovenesc" hospital (Clinica
Medicală a Spitalului "Erincovenesc" - (for all)

Bucharest, Viata Medicală, No 11, 1 Jun 63, pp 735-739

"Treatment of Hepatic Cirrhosis with Hypoglycaemia-Inducing
Sulfonamides."

5

MORAFIU, Tiberiu; CONSTANTINESCU, Gherasim; NEGREANU, Elena;
LAZARESCU, Victor; POENARU, Ilie; ALEXEI, Olga; BOUREANU,
Camelia

"The Guidebook of Rumania." Natura Geografie 12 no. 6:
141-142 N-D '60.

1. Membru corespondent al Academiei R.P.R. Cluj (for Morariu,
Constantinescu.

NESTORESKO, N.; ALEXENCO, Ecaterina; GEORGESCO, Colette; TUPA, Sanda;
SZEGELI, Lucia; CAFFE, Ileana

Characteristics of the antibiotic resistance of certain strains of
Staphylococcus and Salmonella isolated from patients undergoing
antibiotic treatments. Arch. Roum. path. exp. microbiol. 20 no.3:
381-385 S '61.

1. Travail de l'Institut "Dr. I.Cantacuzino" Service des
Enterobacteriacees.

(STAPHYLOCOCCUS pharmacology) (SALMONELLA pharmacology)
(ANTIBIOTICS pharmacology)

POPOVICI, Marcella; ALEXINCO, Ecaterina

Experimental studies of the acquired resistance of staphylococci to antibiotics "in vivo". Arch. Roum. path. exp. microbiol. 20 no.3:387-391 S '61.

1. Travail de l'Institut "Dr. I. Cantacuzino Service des Enterobacteriacees.
(STAPHYLOCOCCUS pharmacology) (ANTIBIOTICS pharmacology)

POPOVICI, Marcella; NESTORESCO, N.; ALEXENCO, Ecaterina; SOARE, Luiza;
GHIONI, Elena; ALESSANDRESCO, D.; TEODORU, G.

Influence of the cyclic use of antibiotics on the characteristics of
staphylococci in a maternity hospital. Arch. Roum. path. exp. microbiol.
20 no.3:393-398 S '61.

1. Institut Dr. I. Cantacuzino Service des Enterobacteriacees (for
Popovici, Nestoresco, Alexenco, Soare, Ghioni. 2. Maternite Polizu
(for Alessandresco, Teodoru).
(STAPHYLOCOCCUS pharmacology) (ANTIBIOTICS pharmacology)

ALEXENCO, Ecaterina; GEORGESCO, Colette; SOARE, Luiza

Research on the value of 2 methods of determination of antibiotic sensitivity. Arch. Roum. path. exp. microbiol. 20 no.3:537-540 S '61.

1. Travail de l'Institut "Dr. I. Catacuzino" Service des
Enterobacteriacees.
(BACTERIA pharmacology) (ANTIBIOTICS pharmacology)

NICOLESKO, Marcela; ALEXENKO, Ekaterina

Comparative study of several strains of *S. typhi* isolated from the same patient by hemoculture and coproculture. Arch. roum. path. exp. microbial. 21 no.1:101-108 Mr '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" — Service des Enterobacteriacees.

(SALMONELLA TYPHOSA) (FECS)

POPOVICI, Marcella; NESTORESCO, N.; ALEXENCO, Ecaterina

Research on the relations between strains of Staphylococcus of lysotypes 80, 81 and 80/81, estimated from the characteristics of the endogenous phages. Arch. roum. path. exp. microbiol. 21 no.2:294-301 '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" -- Centre National de Bacteriophage-References.

(STAPHYLOCOCCAL PHAGES)

(STAPHYLOCOCCUS)

NESTORESCO, N.; FICPOVICI, Marcella; ALEXENCO, Ecaterina

Genetic interrelationships in the phenomenon of lysogenization
of staphylococci. Arch. Roum. path. exp. microbiol. 22 no.1:
93-99 Mr '63.

(STAPHYLOCOCCAL PHAGES) (GENETICS)

CIUCA, M., acad.; NESTORESCU, N., prof.; BRUCKNER, Silvia, conf.; POPOVICI, Marcela; ALEXENCO, Ecaterina; SARAGEA, Alice; ELIAN, Marius; MEITERT, Eugenia.

Research on fago-bacterial systems in the rhinopharyngeal ecology. Pt.2. Microbiologia (Bucur) 6 no.1:54-55 Ja-F '61.

NESTORESCU, N., prof.; POPOVICI, Marcela; ALEXENCO, Ecaterina

Studies on the relation between induced resistance of staphylococci in vitro under antibiotic substance influence and their sensibility in the presence of specific phages. Microbiologia (Bucur) 6 no.1:55 Ja-F '61.

NESTORESCO, N.; POPOVICI, Marcella; ALEXESCU, Ecaterina; TRILU, P.

Contribution to the study of the factors of pathogenicity of staphylococci in relation to specific immunity. Pt.2. Arch. Roum. path. exp. microbiol. 23 no.4:899-1000 1964.

1. Travail de l'Institut "Dr. I. Cantacuzino" et de la Chaire de Microbiologie II, Institut Medico-Pharmaceutique de Bucarest. Submitted June 15, 1964.

RUMANIA

576.8.097.22:615.779.93

POPOVICI, Marcella, Dr, ALEXENCO, Eoaterina, Dr, and BAICEV, Victoria, Dr. Work performed at the "Dr I. Cantacuzino" Institute (Institutul "Dr I. Cantacuzino").

"Comparative Studies of Different Methods for the Estimation of Bacterial Sensitivity to Antibiotics."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 3, May-Jun 66, pp 221-225.

Abstract: A report on a comparative study of antibiograms made with I.C.M. tablets (of the Rumanian State Drug Control authorities), with discs supplied by Stockholm's Karolinska Institut, and using the determination of minimum inhibiting concentration by the dilution method. The study used 100 strains of staphylococci and 100 strains of enterobacteria. Analyzing the results, it was found that in general the I.C.M. values agree with those obtained by the minimum inhibiting concentration method; the inhibition areas obtained with the two diffusimetric methods agreed for some of the strains, were larger with the Stockholm discs for others, and larger with the I.C.M. tablets for another group.

Includes 3 tables and 5 references, of which 3 Rumanian 1/1 and 2 English-language. -- Manuscript submitted 2 December 1965.

ALEXI, Istvanno; PEAKPALVI, Endre

Shiny mickel plating. Gopgyartastechn 2 no.9:348-349 S '62.

L 15610-66

ACC NR: AP6008206

SOURCE CODE: BU/0011/65/018/004/0327/0330

AUTHOR: Alexiev, B.

ORG: Geologic Institute, Bulgarian Academy of Science

TITLE: Elimination of absorption errors in X-ray fluorescent analysis of rocks and minerals

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 4, 1965, 327-330

TOPIC TAGS: x ray analysis, fluorescence, mineralogy, x ray absorption

ABSTRACT: A major drawback of the X-ray-fluorescent method is the absorption effect of the secondary X-ray radiation in the sample on the intensity of the analytical lines. Usually, the correction is effected by means of inner standards. Here a new method is proposed for the elimination of absorption effects using external standards. Since according to $I = I_0 e^{-\mu d}$ and $\mu = \mu_0 \rho$ equations the absorption (reducing the intensity from I_0 to I) depends on the layer thickness d , sample density ρ , and the atomic number of the substance z (μ_0 , ρ , and λ are constants), one eliminates the effects of d

Card 1/2

1 15610-66

ACC NR: AP6008206

and ρ by using samples (and standards) of equal volume and weight. The dependence on λ is eliminated following various approaches (suitable for various types of substances) described in the article. The paper was submitted by M. Penchev, Corresponding Member Bulgarian Academy of Sciences, 25 December 1964. Orig. art. has 4 figures. /JPRS/

SUB CODE: 08, 07, 20 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 002
SOV REF: 001

TS
Card 2/2

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

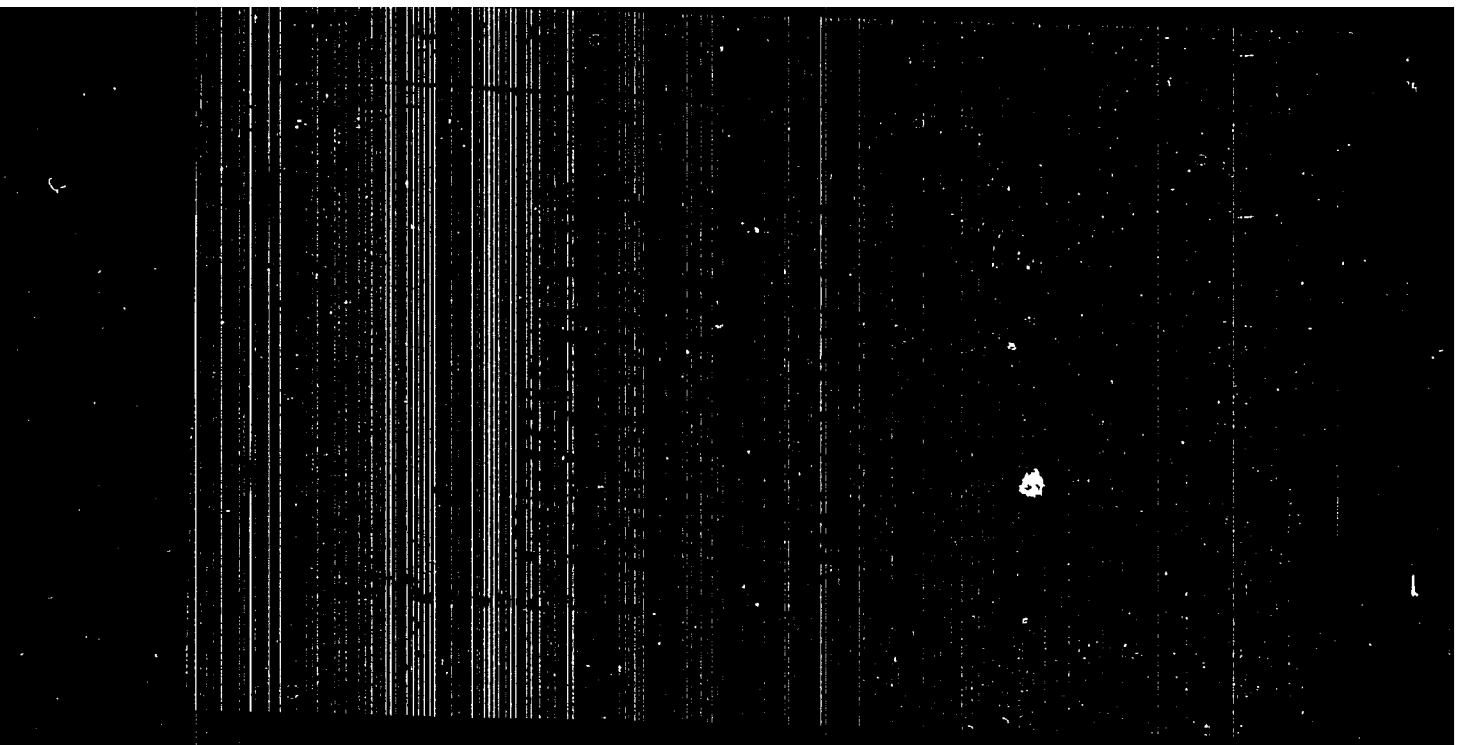
CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

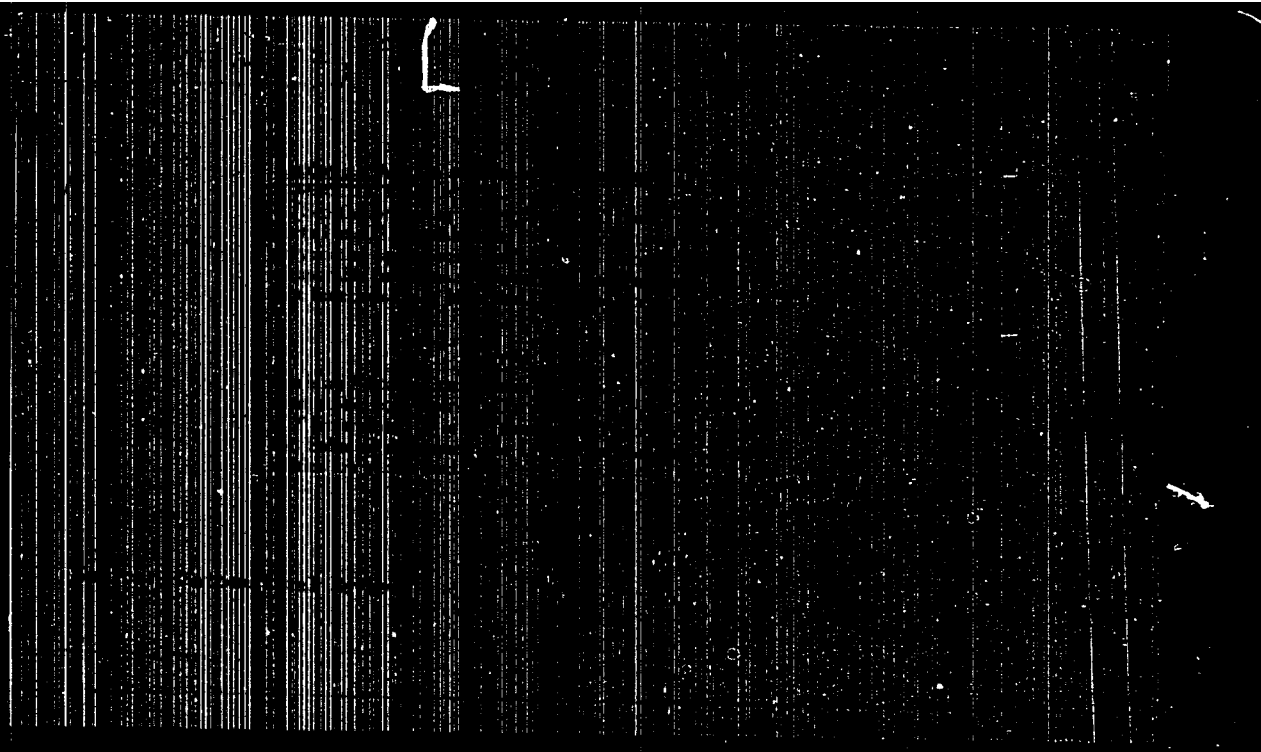
CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

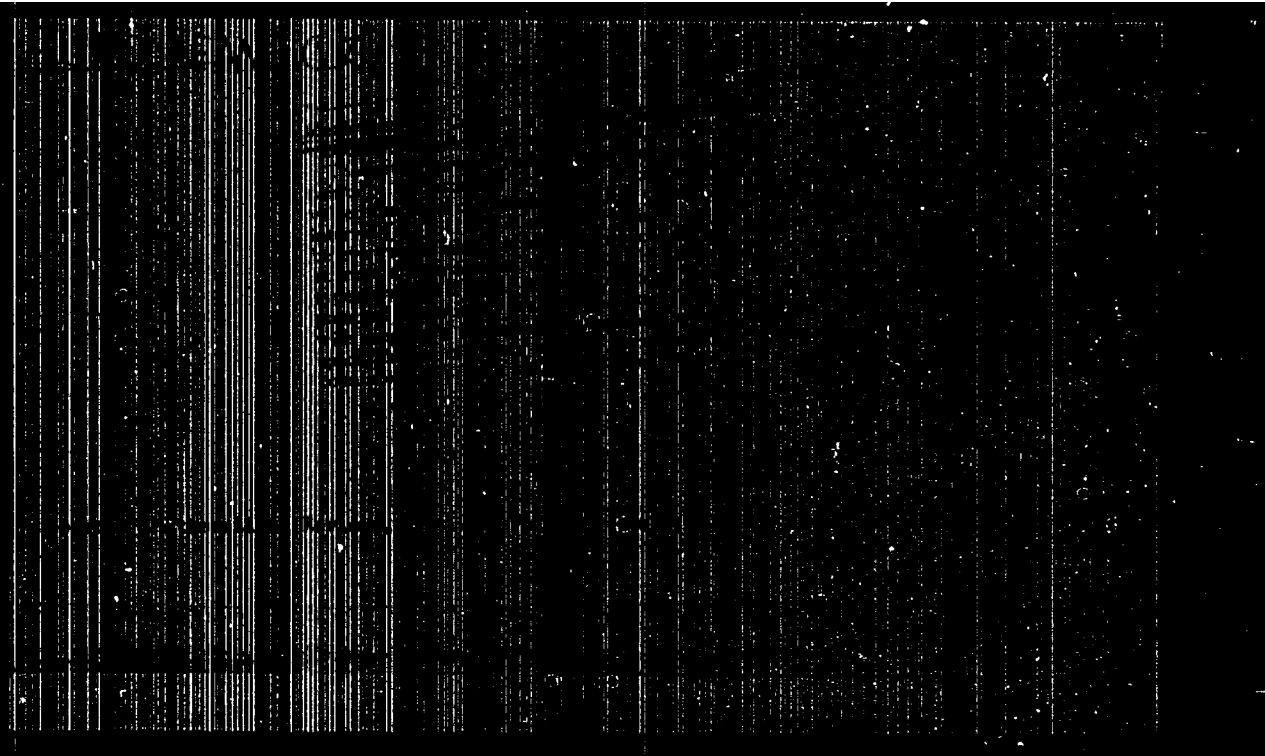
CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

ALEKSIEWICZ, H.

Mathematical Reviews
Vol. 14 No. 11
Dec. 1953
Analysis

6-23-54
LL

Aleksiewicz, A., and Orlicz, W. On the differentials in Banach spaces. Ann. Soc. Polon. Math. 25 (1952), 95-99 (1953).

Let X and Y be two real Banach spaces and $y = F(x)$ a function from X to Y . It is shown that if $A \subset X$ is open and if F is continuous in A and if

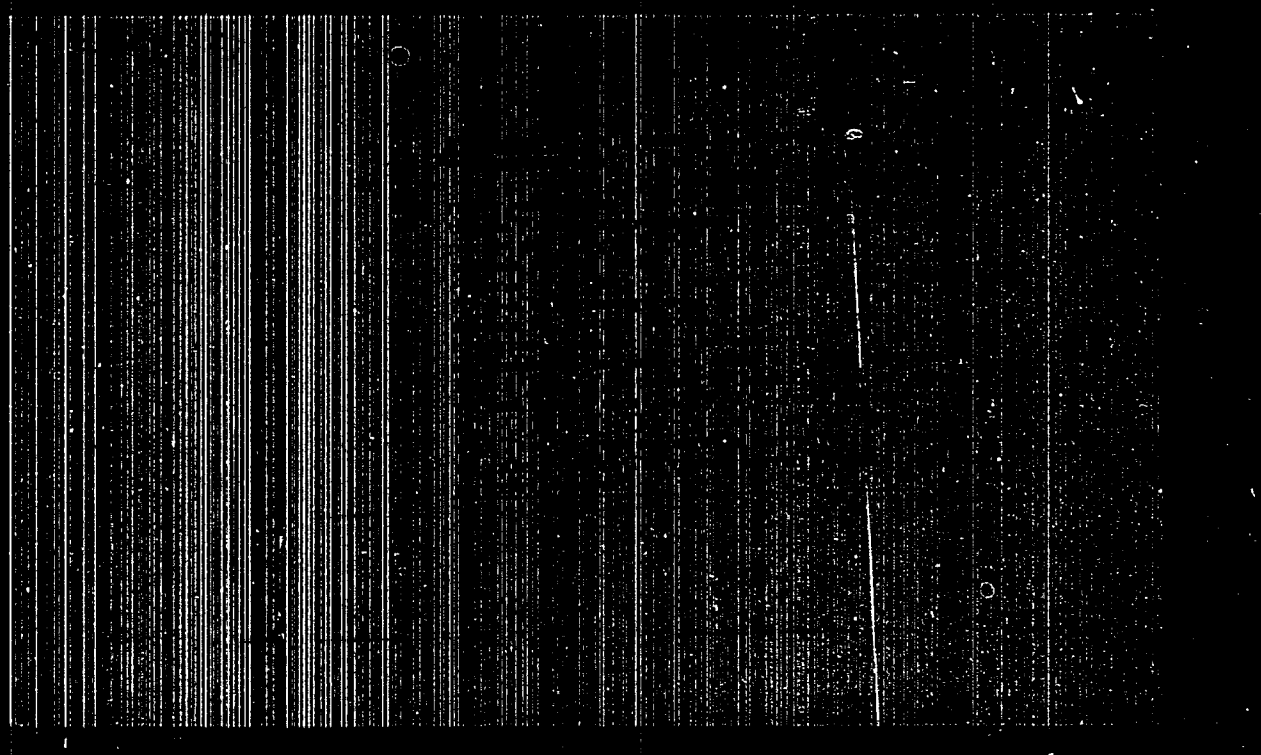
$$\lim_{h \rightarrow 0} \frac{F(x+h) - F(x)}{h} = \delta F(x, h)$$

exists for each $h \in X$, $x \in A$ then $\delta F(x, h)$ is linear and continuous in h for all $x \in A$ except for a set N of first category (i.e. is the continuous Gateaux differential of F in $A - N$). An example is given of a Lipschitzian function defined from an infinite-dimensional Banach space X to itself having at all points a Gateaux differential continuous in x and h jointly but not possessing a Fréchet differential at any point of X .
R. E. Fullerton (Madison, Wis.).

0000

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

ALEXANDER, A.

Mathematical Reviews
Vol. 14, No. 11
Dec. 1953
Analysis

8-10-54
LL

Alexander, A. On some theorems of S. Saks. Studia
Math. 13, 18-29 (1953).

Let X and Y be \mathcal{F} spaces, T an abstract set and \mathcal{G} a σ -ring of subsets of T on which is defined a countably additive measure μ with $\mu(T) < \infty$. Assume that the measure space (T, \mathcal{G}, μ) is separable in the topology defined by the metric $d(e_1, e_2) = \mu(e_1 + e_2 - e_1 e_2)$. Let $U(x, t)$ denote an operation from $X \times T$ to Y satisfying

$$(a) \quad U(x_1 + x_2, t) = U(x_1, t) + U(x_2, t)$$

a.e. in T . (b) $x_n \rightarrow 0$ implies $\|U(x_n, t)\| \rightarrow 0$ in measure on T .

(c) If $S \subset T$ is open, for any $x \in X$, $E_t[U(x, t) \in S]$ is measurable. Under these conditions it is shown that if R is a Borel measurable linear manifold in Y there exists a decomposition $T = A \cup B$; $AB = \emptyset$; $A, B \in \mathcal{G}$ with (i) $U(x, t) \in R$ for all $x \in X$ and almost all $t \in A$, (ii) $U(x, t)$ non- $\in R$ for almost all $t \in B$ and all $x \in X$ except for a fixed set of first category. By applying this theorem for arbitrary X and for Y the space of measurable functions, the author deduces various theorems as special cases, among them certain theorems of Saks [Fund. Math. 10, 186-196 (1927); Trans. Amer. Math. Soc. 38, 549-556 (1933); 41, 160-170 (1937)].
R. E. Fullerton (Madison, Wis.).

(1)
math
3

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

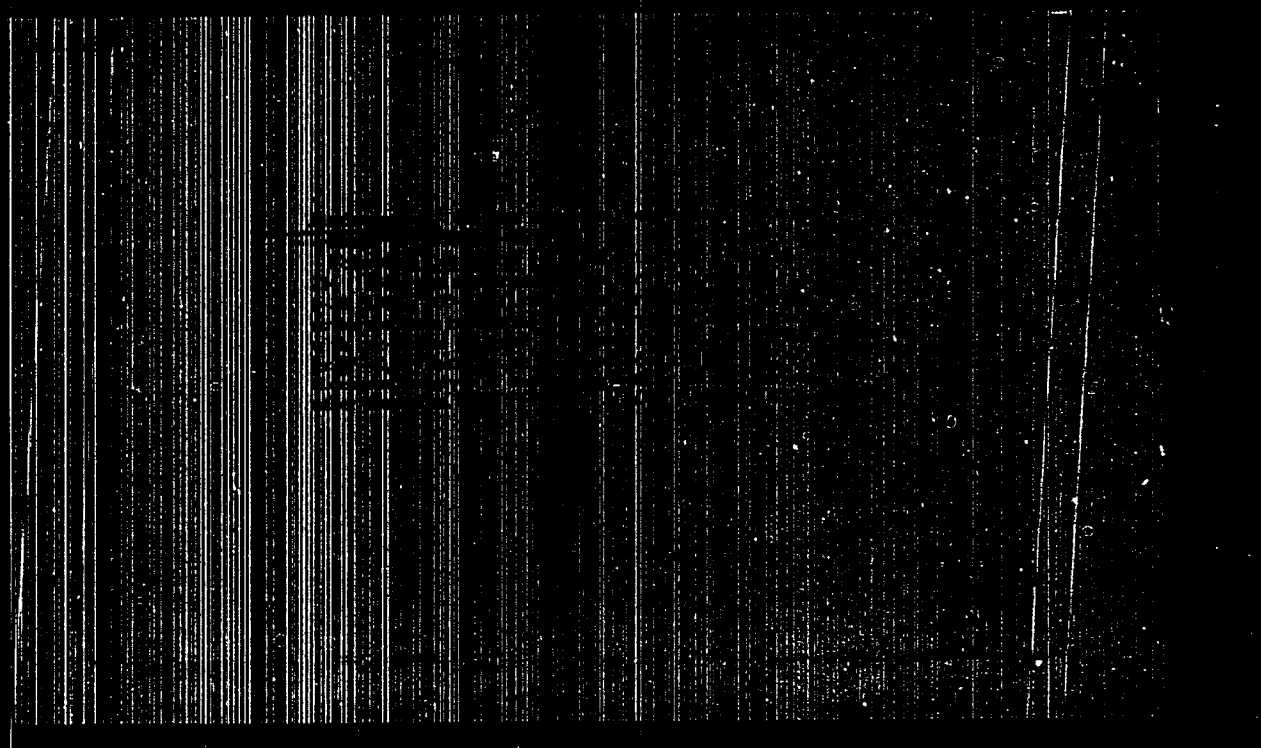
CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

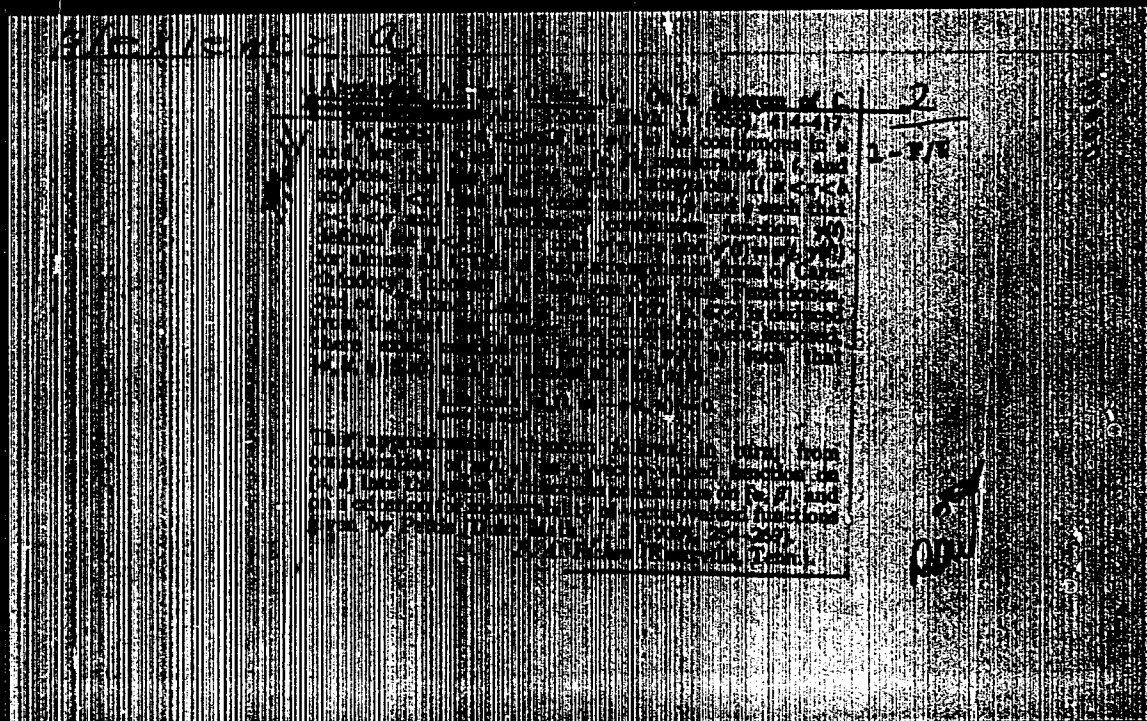
"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"



"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

1957, 1.

1. Group's conservation theorem. In English.

1. 10 (1957) 1-10 (1957) 10, No. 1, 1957

1. 10 (1957) 1-10 (1957) 10, No. 1, November 1957

1-FW

19643:

Alexiewicz, A.; and Semadeni, Z. A generalization of two norm spaces. *Linear functionals*, Bull. Acad. Polon. Sci. Sér. Sci. Math. Astr. Phys. 6 (1948), 135-139.

The authors state the following special case of Grothendieck's theorem (N. Bourbaki, *Espaces vectoriels topologiques*, Actualités Sci. Ind. no. 1230, Hermann, Paris, 1955; MR 17, 1109; Chap. IV, Section 3, Ex. 3): Let X be a locally convex topological vector space, and S a convex, équilibrée subset which is closed, bounded, and absorbing; then the completion of the dual space X' under the norm defined by the polar S° consists of those linear functionals on X which are continuous on S . The proof of this is given essentially in an accompanying paper (#6644 below).

As applications they show (A) that certain linear functionals on the Banach space of bounded continuous functions on a completely regular Hausdorff space are given by Borel measures, and (B) that a linear functional on a Banach space is continuous if and only if it is weakly continuous on the unit ball. The third, and principal, application is as follows. Suppose that X and S are as above; that in addition X is a vector lattice; S is normal in the sense that $x \in S$, $|y| \leq |x| \rightarrow y \in S$; and the topology of X has a neighborhood basis at 0 consisting of normal sets; that finally X_0 is a normal linear subspace. Then a linear functional on X_0 which is continuous on S can be extended to a linear functional on X with the same property.

S. Kaplan (Detroit, Mich.)

ALEKSEWICZ, A.

On certain "weak" properties of vector-valued functions. In English. p. 65.

STUDIA MATHEMATICA. (Polska Akademia Nauk) Warszawa, Poland. Vol. 17, no. 1, 1958.

Monthly List of East European Accessions (MEAL) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

ALEXIEWICZ, A.

Addition to the paper "On some Theorems of S. Saks." In English. p. 69.

STUDIA MATHEMATICA. (Polska Akademia Nauk) Warszawa, Poland. Vol. 17, no. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

ALEXIEWICZ, A.

"Linear functionals on two-norm spaces"

p. 121 (Studia Mathematica, Papers issued by the Polish Academy of Sciences,
Vol. 17, no. 2, 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, no. 1, Jan. 59.

ALMIRANTE, A. (Roman)

The 100-ton spec. (Mila bath for spec no.1:17-20 '63.

ALEXIĚV, B.; HOLEYISOVSKY, V.; SORM, F.

On the structure of some peptides separated from the trypsin hydrolysate of S-sulfotrypsinogen. Doklady BAN 15 no.7: 755-758 '62.

1. Institut für Organische Chemie and Biochemie an der Tschechoslowakischen Akademie der Wissenschaften, Prag.
Vorgelegt von Akademiemitglied D. Ivanóff [Ivanov, D.].

HOLEYSOVSKY, V.; ALEXIJEV, B.; TOMASEK, V.; MIKES, O.; SORM, F.

On proteins. Part 78: Peptides isolated from the soluble amount of tryptic digest of S-sulfo-trypsinogen. Coll Cz Chem 27 no.11:2662-2680 N '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague. 2. Present address: Institute of Chemical Technology, Sofia (for Alexijev).

ALEXINSCHI, A.

"Contributions To The Study of New or Rare Macrolepidoptera In The Fauna of Rumania. p. 15"
BOLETIN STIINTIFIC, Vol. 4, No. 1, Jan./Mar. 1952, Bucurest, Rumania.

SO: Monthly List of East European Accessions, LC. Vol. 2, No. 11, Nov. 1953, Uncl.

ALEXINSCHI, A.; NICULESCU, E.

Contribution to the morphologic study of Aspergillus of Rumania. p.925

COMUNICARILE. Bucuresti, Rumania. Vol. 8, no. 9, Sept. 1958

Monthly list of European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

ALEXINSCHI, Al.; PRIU, M.

Fauna of Lepidoptera in Moldavia and the region of Iasi. Pt. 7.
Studii biol agr Iasi 13 no.1:69-78 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari
stiintifice, Biologie si stiinte agricole" - Filiala Iasi -
(for Alexinschi).

ALLENHESCHI, A.

Contributions to the knowledge of the Lepidoptera fauna of
the Rodna Massif (Microlepidoptera). Pt.2. Studiile
Iasi 14 no.1:59-68 '63.

ALEXINSCHI, Al. & KONIG, Fr.

Contributions to the knowledge of Lepidoptera fauna in
the Lotru and Paringului Mountains. Comunicari zoolog
2: 137-149 '63.

ALEXANDRU, A.; PETRU, M.; PASCOVICI, V.; FILIPESCU, C.; PATRUSCANU, Elena

Ecologic and systematic contributions, and the Hibernia
latr. genus distribution in Rumania. Studii biol agr Iasi
14 no.1:69-83 '63.

ALEXITS, György

Mathematical Reviews
Vol. 14, No. 11
Dec. 1953
Analysis

ALEXITS, György. The significance of the Lebesgue function for the problem of convergence of expansions in orthogonal polynomials. *Comptes Rendus du Premier Congrès des Mathématiciens Hongrois, 27 Août-2 Septembre 1950*, pp. 233-248. Akadémiai Kiadó, Budapest, 1952. (Hungarian. Russian summary)

Let $\{P_n(x)\}$ be the orthonormal system of polynomials associated with the L -integrable weight $w(x) \geq 0$, $a \leq x \leq b$. The series $\sum c_n P_n(x)$ is almost everywhere convergent provided the following conditions are satisfied: (a) the series is almost everywhere $(C, 1)$, (b) in any $a + \epsilon, b - \epsilon$, $\epsilon > 0$, we have $|P_n(x)| \leq M = M(\epsilon)$ uniformly, (c) $f_n^{(1)}$ and $f_n^{(2)} |P_n(x)| = O(\log n)$, (d) $\sum c_n \log n < \infty$. In a further part $\max |f(x) - s_n(x)|$, $-1 + \epsilon \leq x \leq 1 - \epsilon$, $\epsilon > 0$, is estimated where $s_n(x)$ is the n th partial sum of the expansion of $f(x)$; it is assumed that $f^{(1)}(x)$ exists and satisfies a Lipschitz condition of exponent α , $0 < \alpha \leq 1$. The same difference is estimated if $\alpha = 0$, provided the total variation of $f^{(1)}$ in $-1, +1$ is given. Finally expansions in terms of the Jacobi polynomials are studied in further detail.

G. Szegő (Stanford, Calif.)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

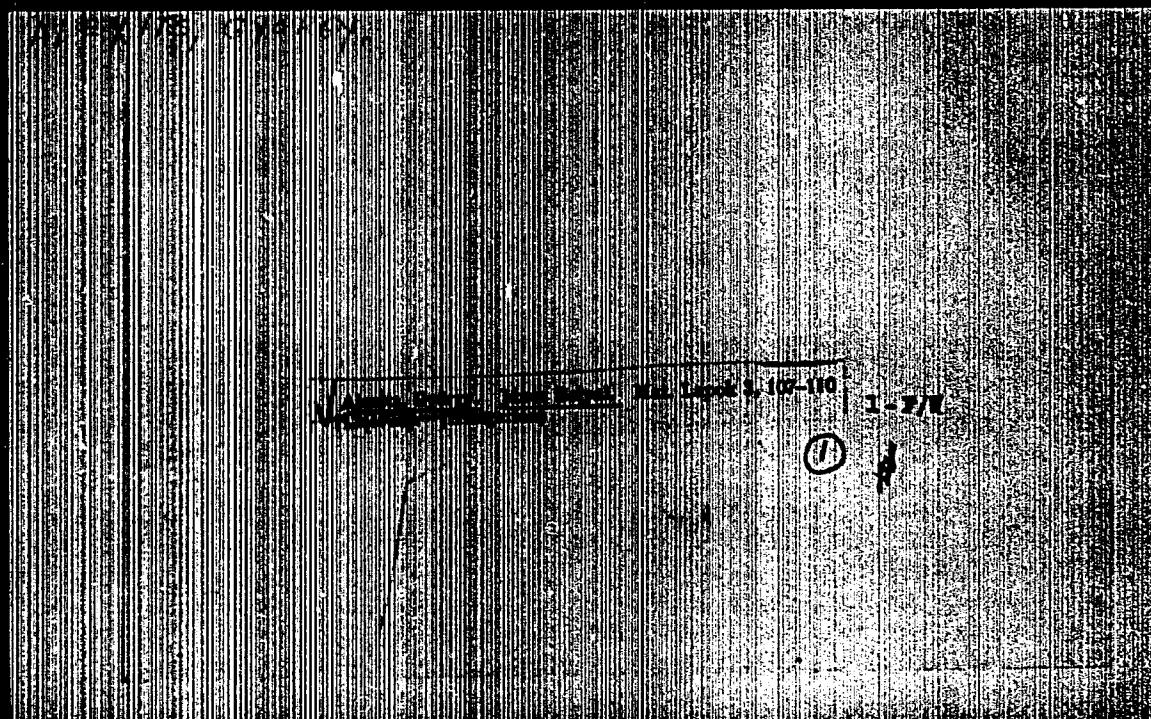
APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

TEXTS, GEORGE

*Bolyai Janos. (Budapest) Muvelt Nep, 1952. 122 p. (Nagy Tudosok) (Janos Bolyai)

SO: East European, L. C. Vol. 2, No. 12, Dec. 1953



"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

ALBERTS, G.

Mathematical Reviews
Vol. 14 No. 11
Dec. 1953
Analysis

Alberts, G. Sur les sommes de fonctions orthogonales.

Ann. Soc. Polon. Math. 25 (1952), 183-187; (1953).

The $\phi_n(x)$ form a normal orthogonal system over (a, b) , and the c_n are arbitrary real numbers. If $s_n(x) = \sum_{k=0}^n c_k \phi_k(x)$ and if the $\sigma_n^{(\alpha)}(x)$ are their n th Cesàro means of order α , then it is shown that

$$(i) \quad s_n(x) = o(\log n \cdot (L_n(\rho, \epsilon) \sum_{k=0}^n c_k^2)^{1/\alpha}),$$

$$(ii) \quad \sigma_n^{(\alpha)}(x) = o((L_n(\rho, \epsilon) \sum_{k=0}^n c_k^2)^{1/\alpha})$$

hold for almost all x in (a, b) , provided that $\epsilon \geq 1$. Here $L_n(\rho, \epsilon) = \log n \cdot \log_2 n \cdots \log_p n \cdot (\log_{p+1} n)^{1+\epsilon}$, $\epsilon > 0$. The proof follows the usual lines; (ii) holds for all $\alpha \geq 0$ when $n = 2^m$. [Cf. Kaczmarik and Steinhaus, Theorie der Orthogonalreihen, Warszawa-Lwów, 1935, p. 165; I. S. Gál, Ann. Inst. Fourier Grenoble 1, 53-59 (1950); these Rev. 12, 475.]

IV. IV. Rogosinski (Newcastle-on-Tyne).

"APPROVED FOR RELEASE: 09/24/2001

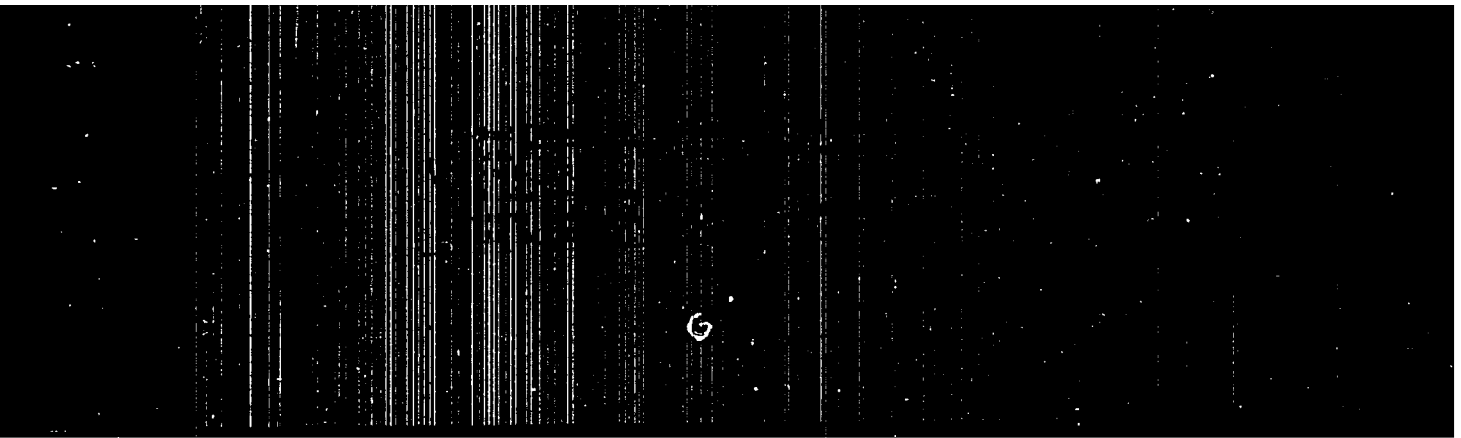
CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

ALLEN, G.

"Summability of orthogonal series."

Acta Mathematica, Budapest, Vol 4, No 3/4, 1962, p. 181

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1964, Lib. of Congress

ALEXITS, G. ph

"An observation about the problem of convergence in Lagrange's formula of interpolation."
Acta Mathematica, Budapest, Vol. 4, No 3/4, 1953, p. 233

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

ALEXITS, G.

"Influence of the Structure of a Function on the Almost Complete Convergence of Its Fourier Series." p. 95 (ACTA MATHEMATICA, Vol. 4, No. 1/2, 1953) Budapest, Hungary

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

ALEXIS, G.

Theorem for summation of orthogonal series. In German. p.5.
Vol. 7, No. 1 1956. ACTA MATHEMATICA. Budapest, Hungary

SOURCE: East European Accessions List, (EEAL) Library of
Congress, Vol. 6, No. 1 January, 1956

ALEXITS, GEORGE

On the Absolute Convergence of Certain Orthogonal Series

v. Alexits, Georges. Sur la convergence absolue de certaines séries orthogonales. Acta Math. Acad. Sci. Hungar. 8 (1957), 303-310.

Aus einer Funktionenfolge $\{\varphi_n(x)\}$, $a \leq x \leq b$, mit $|\varphi_n(x)| \leq K$, $\int_a^b \varphi_n^2(x) dx = 1$ wird eine neue Folge $\{\psi_n(x)\}$ für $n \geq 1$ gebildet durch $\psi_n(x) = \varphi_{n-1}(x) \cdots \varphi_{n-1}(x)$, $n = 2^k + 2^l + \dots + 2^m$ ($0 \leq l < m < \dots < k$). Ferner sei $\varphi_0(x) = 1$. Wegen $\varphi_{n-1}(x) = \varphi_n(x)$ enthält $\{\psi_n(x)\}$ alle Funktionen $\varphi_n(x)$. Der Verf. bezeichnet $\{\psi_n(x)\}$ als multiplikativ orthogonal. Falls $\int_a^b \varphi_n(x) dx = 0$ ist für $n = 1, 2, \dots$. Es gilt nun folgender Satz: Ist $\{\psi_n(x)\}$ multiplikativ orthogonal und ist $f(x)$ beschränkt und so beschaffen, dass $\int_a^b f(x) \psi_n(x) dx = 0$ ist für $n \neq 2^k - 1$, so ist

$$\sum \left| \int_a^b f(x) \psi_n(x) dx \right| = \sum \left| \int_a^b f(x) \varphi_{n-1}(x) dx \right| < \infty.$$

Aus diesem Satz ergibt sich u.a. als Spezialfall eine Verschärfung des bekannten Sidonschen Satzes über lakunäre Fourierreihen. Es werden verschiedene weitere Spezialfälle behandelt.

A. Peyerimhoff (Gießen)

1-FW

ALEXITS, GEORGE.

Contribution to the Constructive Theory of Functions ¹⁶

778:

✓ Alexits, Georges. Une contribution à la théorie constructive des fonctions. Acta Sci. Math. Szeged 19 (1958), 149-157.

²
1-FW

Let $\{p_n(x)\}$ be a system of polynomials, orthonormal with respect to a weight function $\rho(x) \geq 0$ on $\langle a, b \rangle$. In generalisation of a familiar theorem of S. Bernstein the following result is obtained. Suppose that, on a subinterval $\langle c, d \rangle$, one has $(n+1)^{-1} \sum_{k=0}^n p_k^2(x) \leq C_1$ and

$0 \leq \rho(x) \leq C_2$. Let $f \in L_p \langle a, b \rangle$ and $f \in \text{Lip } \alpha$ on $\langle c, d \rangle$, where $0 < \alpha < \frac{1}{p}$. Then, for each $\delta > 0$

$$(*) \quad \frac{1}{n+1} \sum_{k=0}^n |s_k(x) - f(x)| \leq \frac{C(\delta)}{n^\alpha} \text{ on } \langle c+\delta, d-\delta \rangle.$$

Conversely, if (*) holds, then $f \in \text{Lip } \alpha$ on $\langle c, d \rangle$, provided that $0 < m \leq \rho(x) \leq M$ there. These results are further extended to certain other orthonormal systems.

W. W. Rogosinski (Newcastle-upon-Tyne)

FILEX 175

AUTHOR: Smol'skay, S. M., Doctor of Physical and Natural Sciences. -30-1-14/30

TITLE: Mathematical Conference in Szeged
(Matematicheskaya konferentsiya v Szegede).

PERIODICAL: Vopr. AN SSSR, 1958, Vol. 21, Nr 1, pp. 84-85 (USSR)

ABSTRACT: The conference took place in connection with the 10 years' celebrations of the Hungarian Mathematical Society from September 21 to September 23, 1957, and was organized jointly with the Hungarian Academy of Science. The Society is named after the great Hungarian mathematician Janos Bolyai, who, independent of Lobachevskiy, discovered non-Euclidian geometry. The names of F. No, A. Khar, and G. Had' are connected with the university of Szeged. A. Khar, professor of mathematics (topics), L. Redei (geometry, algebra), and G. Had' (analysis of functions, theory of functions) are leading in their respective fields. The periodical "Acta Mathematica" is being published since 1922. The conference was attended by foreign guests from Bulgaria, the German Democratic Republic, Poland, Romania, USSR, Czechoslovakia, and Yugoslavia. L. Kalmár's report was about the theoretical description of an electron and the planned by him. G. Khayosh, in his report on

Card 1/3

Mathematical Conference at Szeged

X-1-14/35

"Geometry in Geometry", spoke about the character of the representation of geometric problems in the textbook for students. J. Hlavin spoke about the convergence of orthogonal series, and B. L. on some new results obtained with the theory of operators in Hilbert's space. L. Rodai spoke about remarkable points of the triangle, O. Varga on new results obtained by the theory of differential-geometric spaces, L. Fuks on the extension of the Kluksa's theorem to infinite groups. Among the foreign guests it was the author (USSR), who spoke about the character of the enclosure (vložheniya) for functions the different partial derivatives of which are differently normal; M. Groll (German Democratic Republic) spoke about regular prime ideals; T. Popovitchi (Romania) spoke about a problem connected with the theory of ordinary differential equations. In the sections for algebra and the theory of numbers, analysis, geometry, logic, the theory of mathematical machines, the theory of probabilities, and pedagogics special reports were heard and discussed. The Collective of Hungarian Mathematicians successfully combines the development of a number of general theoretical fields of mathematics with the development of the applied fields, especially of statistics and

Card 2/3

Mathematical Conference in Szeged

30-1-1, '35

Machine Mathematics.

AVAILABLE:

Library of Congress

1. Mathematics-Conference

CONF 3/3

PHASE I BOOK EXPLOITATION

GER/4835

Alexits, György

Konvergenzprobleme der Orthogonalreihen (Convergence Problems of Orthogonal Series) Budapest, Verlag der Ungarischen Akademie der Wissenschaften [1960] 307 p. No. of copies printed not given.

Reviewers: B. Sz.-Nagy and K. Tandori; Resp. Ed.: György Bernat, Director, Publishing House, Hungarian Academy of Sciences; Tech. Ed.: Istvan Huth.

PURPOSE: This book is intended for mathematicians, particularly those concerned with the theory of convergence and summation of orthogonal series.

COVERAGE: The book delineates the present state of the convergence and summation theory of general orthogonal series and indicates the relationship to corresponding problems of classical developments. The reader is assumed to be familiar with the theory of real functions and Fourier series.

Ger-1/5

Convergence Problems of Orthogonal Series

GER/4835

The author refers to the book by Kaczmarz and Steinhaus as an excellent systematic representation of the convergence theory of orthogonal series, but feels a new attempt in this field is justified in view of the fact that twenty-five years have elapsed since its publication. A supplement to the Russian edition (1958) of the Kaczmarz - Steinhaus work written by Guter and Ul'yanov is also referred to. The author thanks B. Sz. Nagy and K. Tandori. There are 148 references: 58 French, 51 German, 27 English, 12 Soviet.

TABLE OF CONTENTS:

Preface	5
Ch. I. Fundamental Concepts. Examples of Orthogonal Series	9
1. Orthogonality, orthogonalization, orthogonal series	9
2. L^2_μ - space. Riesz-Fischer theorem. Complete orthogonal systems	15
3. Orthogonal polynomials	26

Card 2/3

ALEXITS, G. [Alexits, Gyorgy]; KRALIK, D.

On the absolute summability and the convergence of orthogonal series. Mat kut kozl MTA 7 series A no.3:363-371 '62.

1. Technische Hochschule, Budapest. (for Kralik).

ALFALTS, Georg [Alexits, Gyorgy]; KRALIK, D.

Degree of approximation in case of strong summation of continuous functions. Mat kut kozl MTA 8 series A no. 3:317-327 '63('64).

1. Technische Hochschule, Budapest.

CARPINISAN, C., prof.; CONSTANTINOPOL, Th., dr.; ALEXIU, Gh., dr.;
KERCIA, V., dr.; SCHREIBER, E., dr.

Secondary pulmonary aspergilloma. Med. intern., Bucur 12 no.10:
1523-1530 0 '60.

1. Lucrare efectuata la Spitalul de tuberculoza Filaret (director:
prof. C.Carpinisan).
(LUNG DISEASES case reports) (ASPERGILLOSIS case reports)

ENESCU, St., ing.; PETRESCU, M., ing.; ALXIU, I., ing.

Aspects of fatigue phenomena occurring in reinforced concrete elements.
Rev transport 9 no.10:435-442 0 '62.

ALEXIU, I., ing.; BALANESCU, C., ing.; CATUNEANU, V., ing. candidat in stiinte
tehnice; DANILIU, N., ing.; RUSU, N., ing.

Elementary commutation circuits with magnetic cores. Telecomunicatii
7 no.1:12-18 Ja-F '63.

CATUNEANU, V., ing.; ALEXIU, I., ing.; DANILIUC, N., ing.; BALANESCU, C., ing.

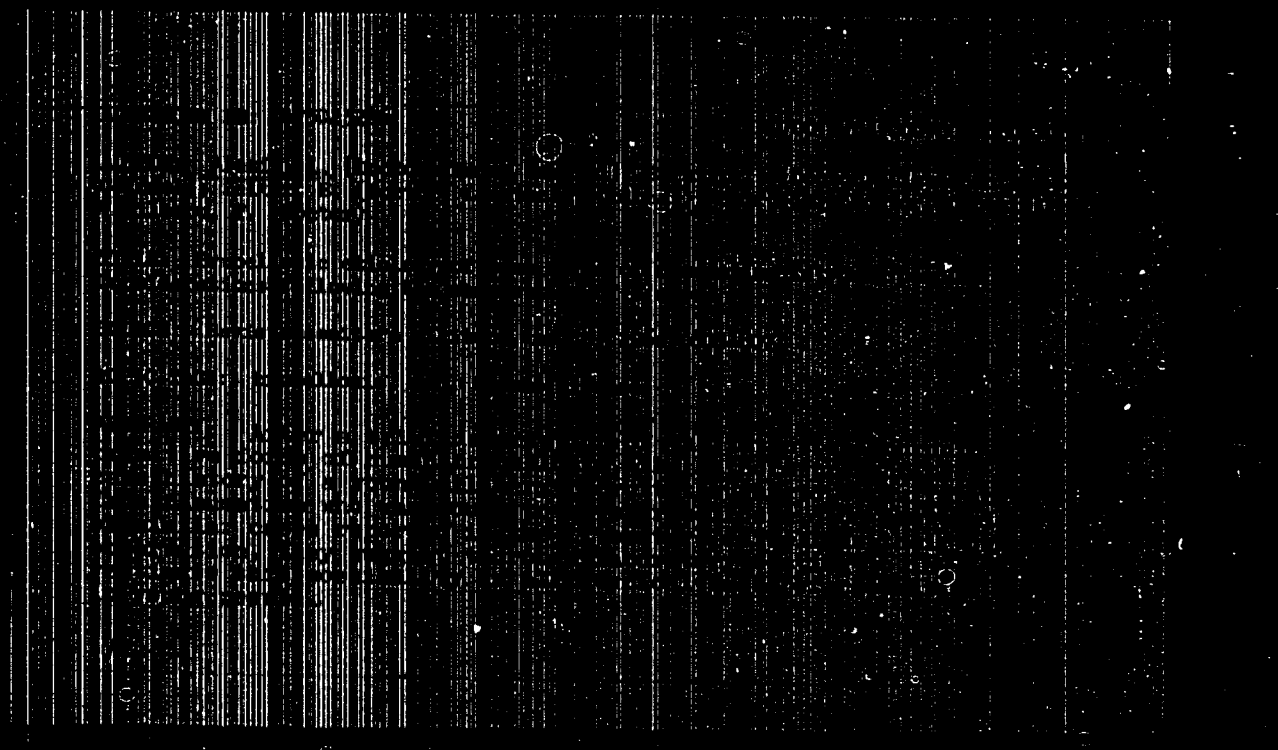
Signaling devices with semiconductors for automatic telephone exchanges
for institutional use. Telecomunicatii 7 no.2:69-74 Mr-Ap '63.

ALEXIU, I., ing.

"General technology in the electronic industry" by V. Stanescu
and others. Reviewed by I. Alexiu. Electrotehnica 11 no. 10:
387 0'63.

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5

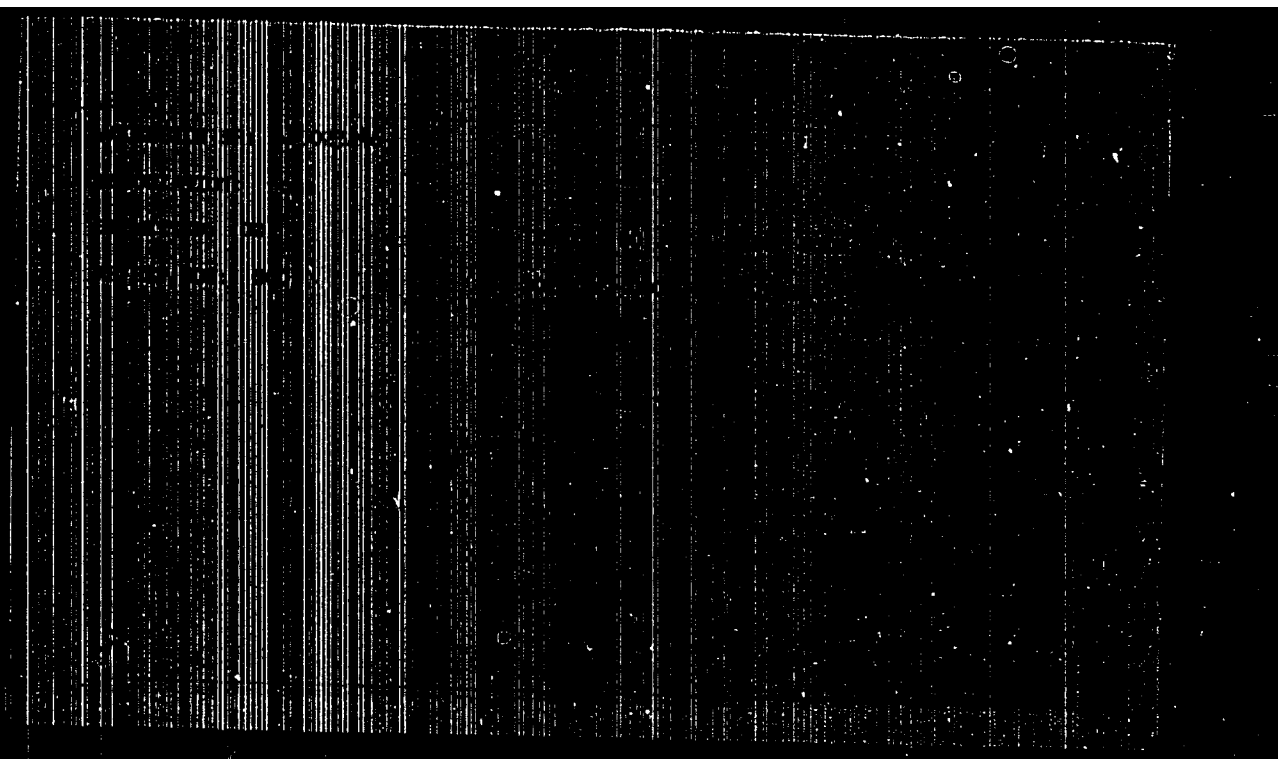


APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000101020011-5"

RUMANIA

ALEXIU, I., Maj-Gen, Dr, IONESCU, M., Col, Dr, ZELTER, E., Lt-Col, Dr, NICOLAE, A., Lt-Col, Dr, MIHAILESCU, C., Maj, Dr, and CARUNTU, C., Capt, Dr [affiliation not given]

"The Study of Post-Virotic Chronic Hepatitis in Military Environment."

Bucharest, Revista Sanitara Militara, Vol 59, No 3, May-Jun 63, pp 447-459.

Abstract: A study based on an evaluation of 190 cases of post-virotic chronic hepatitis. Reviews the conditions of the study and discusses the factors influencing the development of chronic hepatitis. Includes an analysis of the etio-pathogeny and diagnosis of the disease, its evolution and curative and prophylactic measures. Contains data as to the results of the various treatments in reducing the duration of the disease. Includes 4 tables, 3 figures and 24 references, of which 19 Rumanian, 4 Russian and 1 English.

1/1

21

CARPINISAN, C., prof.; ALEXIU, G.; STAN, A.

Right pneumonectomy with retrograde ligature of the pulmonary artery
after primary section of the main bronchus. Romanian M Rev. no.3:-6
Jl-S '60;

(PNEUMONECTOMY)

ALEXIU, P.; ROZEN, A.

Economic efficacy of the productive activity and the national
income increase. Probleme econ 17 no.1:18-31 Ja '64.

ALEXU, S.

Cur public activists. p. 4. CONSTRUCTORUL. (Ministerul Constructiilor
si Industriei Materialelor de Constructii si Uniunea Sindicatelor de
Salarati din Intreprinderile de Constructii) Bucuresti. Vol. 7, no. 310,
Dec. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

ALEX, Julius, doc., inz., CSc.

School and practical needs. Tech praca 16 no. 1:62-63 Ja '64.

1. Slovenska vysoka skola technicka, Bratislava.

NAGY, Jozsef, dr.; ALEXY, Miklosne, dr.

Tularemia and cytomegaly in a 4-month-old infant. Gyermek-
gyógyászat 15 no.2:52-56 F164.

1. Győr-Sopron Megyei Tanács Kórház igazgató: Szász, János,
dr.) Kórházorvosi Osztályának (először: Soos, József, dr., egy-
m. tanár) és Gyermekosztályának (először: Székely, Ferenc, dr.
egy. m. tanár) közleménye.

✱