

SHERSHEN', L., kand. tekhn. nauk; TITOV, A.; ZUBOV, A.; SOLOMONOV, S.

Opinions of the leaders of the economic councils and special industrial designers bureaus. Tekh. est. 2 no.7:4-6 J1 '65.

(MIRA 18:8)

1. Predsedatel' Tekhniko-ekonomicheskogo soveta Leningradskogo soveta narodnogo khozyaystva (for Shershen'). 2. Nachal'nik Spetsial'nogo khudozhestvenno-konstruktorskogo byuro Leningradskogo soveta narodnogo khozyaystva (for Titov). 3. Zamestitel' predsedatelya Leningradskogo soveta narodnogo khozyaystva (for Zubov). 4. Glavnyy inzh. Spetsial'nogo khudozhestvenno-konstruktorskogo byuro Leningradskogo soveta narodnogo khozyaystva (for Solomonov).

SOLOMONOV, S.A., inzh.

Investigating the unloading process by the stiff curvilinear blades
of the feeder of rotating snow-removal machines. Trudy ~~MIT~~ no.147:
150-163 '62. (MIRA 16:5)

(Snow plows--Testing)

IVANOV, I.I., kand.tekhn.nauk; SOLOMONOV, S.A., kand.tekhn.nauk

Scientific workers in the institutions of higher education struggle
for technological progress. Zhel.dor.transp. 45 no.8:31-35
Ag '63. (MIRA 16:9)

1. Nachal'nik otdela vysshikh uchebnykh zavedeniy Glavnogo upravleniya
uchebnymi zavedeniyami Ministerstva putey soobshcheniya (for
Ivanov). 2. Starshiy pomoshchnik nachal'nika otdela vysshikh
uchebnykh zavedeniy Glavnogo upravleniya uchebnymi zavedeniyami
Ministerstva putey soobshcheniya (for Solomonov).
(Railroad research)

SOLOMONOV, S. A. nzh.

Constructive design of a snow removal machine. Put' i pat. khiz.
9 no. 1818 165 (MIRA 1962)

SOLOMONOV, Sh., nauchnyy sotrudnik

Leninabad silk combine. Tekst.prom.17 no.11:40 N '57. (MIRA 10:12)

1. Otdel ekonomiki AN Tadzhikskoy SSR.
(Leninabad--Silk manufacture)

SOLOMONOV, Sh.A.

Ensure a stable supply of raw products for the canning industry of Tajikistan. Kons.i ov.prom. 12 no.8:41-42 Ag '57. (MIRA 10:10)

1. Akademiya nauk Tadzhikskoy SSR.
(Tajikistan--Canning industry)

SOLOMONOV, S. I.

PA 3/4/T19

USSR/Chemistry - Laboratories, Industry
Chemistry - Analysis

Aug 48

"Progressive Standards in Analytical Work," S. I.
Solomonov, Supervisor, Chem Lab, "Hammer and Sickle"
Factory, 1½ pp

"Zavod Lab" Vol XIV, No 8

Table shows methods used and time taken for various
determinations of C, Mn, S, P, Si, Ni, Cr, Cu, Mo
and Ti in author's laboratory.

3/49T19

SOLOMONOV, Sh.M.

Increasing salt production in Asht District and the use of
salt resources. Izv. Otd. obshchestv. nauk AN Tadsh. SSR no.
8:119-122 '56. (MLRA 9:9)

1. Otdel ekonomiki AN Tadshikekey SSR.
(Asht region--Salt)

ARVANITAKI, Ye.S.; OLEYNICHENKO, D.I.; SOLOMONOV, Sh.M.; STARETS, R., red.;
KOZLOV, N., tekhn.red.

[Canning industry of Tajikistan; a collection of articles]
Konservnaya promyshlennost' Tadzhikistana; sbornik statei.
Stalinabad, Tadzhikgosizdat, 1957. 54 p. (MIRA 11:4)
(Tajikistan--Canning industry)

SOLOMONOV, Sh.M.

Utilization of productive capacities and distribution of
cottonseed oil mills in Tajikistan. Trudy AN Tadsh.SSR 92:
65-73 '58. (MIRA 13:4)
(Tajikistan--Cottonseed oil mills)

SOLOMONOV, Sholom Mikhaylovich; DESYATCHIKOV, B.A., kand.ekon.nauk,red.;
KOTSABENKO, Ye.G., red.izd-va; FROLOV, P.M., tekhn.red.

[Present-day state and prospects for the expansion of the
canning industry in the Tajik S.S.R.]Sovremennoe sostoianie
i perspektivy razvitiia konservnoi promyshlennosti Tadzhikskoi
SSR, Stalinabad, Izd-vo Akad.nauk SSR, 1957. 95 p. (Akademiia
nauk Tadzhikskoi SSR, Stalinabad, Trudy, vol.65).

(MIRA 12:12)

(Tajikistan--Canning industry)

POLYARUSH, Ye.; SOLOMONOV, Sh.; STARETS, R., red.; POITORAK, I.,
tekhn.red.

[Aromatic plants of Tajikistan] Efiromaslichnye Tadzhikistana.
Stalinesbad, Tadzhikgosizdat, 1959. 46 p.

(MIRA 14:3)

(Tajikistan--Aromatic plants)

OLEYNICHENKO, D.I.; SOLOMONOV, Sh.M.; STARETS, R., red.; POLTORAK, I.,
tekhn.red.

[Development of the food industry in Tajikistan] Razvitie
pishcheroi promyshlennosti Tadzhikistana. Stalinabad,
Tadzhikgosizdat, 1961. 106 p. (MIRA 14:12)
(Tajikistan--Food industry)

3076000, 1. . ., 3076000, 1000

Prospects for the development of the textile industry of
Tajikistan. Tekst. prom. 25 no.7:24-25 JI '65. (MIPA 18:2)

1. Dekan ekonomicheskogo vechernego fakul'teta Tadzhijskogo gosudarstvennogo universiteta imeni Lenina.

SOLOMONIK, S.S., inzh. (Moskva)

Calculation of high-voltage pulse cables with a semiconductor
layer. Elektrichestvo no.11:66-71 N '64.

(MIRA 18:2)

U

USSR/General Problems of Pathology - Immunity.

Abs Jour : Ref Zhur Biol., No 5, 1959, 2263⁴

Author : Kantsur, M.Ya., Izbavitelev, P.V., Golembo, S.N.,
Solomonov, Sh.Sh., Blokhov, V.P.

Inst : Military-Medical Academy

Title : On Providing C-Vatimin in Soldier's Rations and Influence
of Vitamin C on the Production of Immune Bodies in the
Organism.

Orig Pub : Voyen.-med. zh., 1958, No 3, 43-51

Abstract : In culinary preparations in soldiers' rations during the
Spring-Summer period, the actual content of vitamin C
may be below 40-60 mg. The soldiers were immunized with
'NIISI' vaccine; 1 group recieved an additional amount
of ascorbic acid with food (I; 50 mg per person). The
antibody titer (AT) was determined 1, 4, and 9 weeks after

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- 4 -

Abs Jour : Ref Zhur Biol., No 5, 1959, 2263⁴

vaccination. In those receiving I, At by 4th week was
1:100 - 1:400; by the 9th week it was somewhat decreased.
In the control group, the increase of AT was weaker; the
highest AT was at the 9th week. A comparison of the in-
cidence of impetiginous (ID) and cold diseases (CD) dur-
ing a certain period in 1955 and 1956 showed a decrease
correspondingly by 20.3 and 35%. It was shown on Military
School students that the introduction of vitamin C and A
decreased the incidence of ID 4.1 times, of SD - 6.3 times.

Card 2/2

BUCHAY, Boris Martynovich, prof.; RYNIN, A.V., inzh., retsenzent [deceased];
SOLOMONOV, V.D., inzh., retsenzent; BURKOV, V.I., red.; POLUNICHEV,
I.A., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Technology of cabinetwork and furniture manufacture; textbook for
technical schools] Tekhnologiya stoliarno-mebel'nogo proizvodstva;
uchebnik dlia tekhnikumov. Izd. 2., perer. Moskva, Goslesbumizdat,
1960. 326 p. (MIRA 13:9)
(Cabinetwork) (Furniture)

SOLOVYOV, V.S.

Fishery Products

Collective of the Moscow Fish Combine follows the initiative of Mariya Levchenko and Grigoriy Mukhanov. Ryb. khoz. Zh., no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, AUGUST 1952 1953. Unclassified.

TURBOVICH, I.T.; SOLOMONOV, V.G.

Errors in rapid methods of measuring telephone channel frequency
characteristics. Sber.nauch.rab. po prov. svyazi no.4:103-110 '55.
(Telephone--Testing) (MLRA 9:2)

AUTHOR: TURBOVIĆ, I.T., KNIPPER, A.V., SOLOMONOV, V.G. PA - 2015
 TITLE: A Device for the visual Observation and Measurement of Frequency Characteristics of Group-Propagation Time, Phase Shift, and of the Modulus of the Wireless Transmission Coefficient (Frequency Characterograph).
 (Pribor dlja vizualjnogo nabljudenija i izmerenija častotnyh harakteristik gruppovogo vremeni pasprostranenija, fazovogo smešćenija i modulja koeficienta perdači (častotnyj harakterograf). Russian.
 PERIODICAL: Radiotekhnika, 1957, Vol 12, N r 1, pp 31-42 (U.S.S.R.)
 Received: 2 / 1957 Reviewed: 3 / 1957
 ABSTRACT: In connection with the measuring of the characteristics, the time needed for this purpose is of essential importance. A high degree of accuracy as well of rapidity when measuring frequency characteristics is obtained by means of the frequency modulation method with the aid of oscillographs. The authors are not of the opinion that these methods are less accurate than those based upon point measurement. The present paper describes the construction of a device for the rapid measurement of frequency characteristics; errors are investigated, and the block scheme of the device, which was developed between 1953 and 1955 in the laboratory of the USSR Academy of Sciences, is described. Calculations show that in most of the cases under investigation the complex error committed when measuring the wireless transmission coefficient is negligibly small within the range of high
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PA -- 2015

A Device for the visual Observation and Measurement of Frequency Characteristics of Group-Propagation Time, Phase Shift, and of the Modulus of the Wireless Transmission Coefficient (Frequency Characterograph).

frequencies and in the case of a velocity of frequency modification of 6 kc/sec^{-1} . Group propagation time is measured in accordance with the method developed by Nyquist. The error which characterizes this method, together with that which is due to the rapid method of measuring amounts to a total of less than $0,02 \mu\text{sec}$ in the case of most broad-band objects. The block scheme of the device is described. It consists of two parts: one for transmission and one for reception. The scheme of the transmitting part remains unchanged in the course of measurements of all three characteristics. The receiving part performs the following tasks: Measuring the amplitude of the envelope at the output of the object under investigation (during measurement of the wireless transmission coefficient), comparison and measurement of the phase differences of the envelope at the input and output of the object (during measurement of the group-propagation time), integration of group time according to frequency (when measuring deviations of phase shift from the linear characteristics). Reading off recordings made by the device is carried out by the comparison method. The measuring process is divided into two stages: a measuring

CARD 2 / 3

SOLOVYOV, V.G., Cand Tech Sci--(disc) "Synthetization and measuring of
frequency characteristics of ^{wide-band}~~wide-spectrum~~ objects." Eng. Communications Pub-
lishing House, 1952, 11 pp (Min of Communications USSR. Low-Electr En-
gineering Inst of Communications), 100 copies (KL,26-28, 112) *ipal*

SOLOMONOV, Vasilii Georgiyevich; LYUSTIBERG, V.F., inzh., ved. red.;
YAKOVLEV, D.A., inzh., red.; SOROKINA, T.M., tekhn. red.

[Device for synthesizing characteristics (magazine with various characteristics)] Ustroistvo dlia sinteza kharakteristik (magazin kharakteristik). Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 34 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 36. No.P-58-9/4) (MIRA 16:3)
(Television--Equipment and supplies) (Electric filters)
(Attenuators (Electronics))

A. CHOR. Solemonov, V.G.

106-58-3-1/19

TITLE: Synthesis of Characteristics (Sintezirovaniye kharakteristik)

PERIODICAL: Elektrosvyaz, 1958, ¹² Nr 3, pp 3 - 10, (USSR)

ABSTRACT: The principles and method of amplitude-frequency and phase-frequency characteristic synthesis are discussed and a short description is given of apparatus built in the Academy of Sciences Laboratory for Line Communications in 1955-56 (Ref.4). The amplitude-frequency characteristic $A(\omega)$ of an electrical system can be represented by the Fourier series:

$$A(\omega) = \frac{a_0}{2} + \sum_{n=1}^{\infty} a_n \cos n\omega t \quad (1)$$

and the phase-frequency characteristic $B(\omega)$ by:

$$B(\omega) = b_0 \omega + \sum_{m=1}^{\infty} b_m \sin m\omega t \quad (2)$$

Reproduction of the desired number of terms of Eqs.(1) and (2) is obtained by the arrangement shown in Fig.1. This consists of a delay line with tapings (branches) at fixed time intervals τ , a control on each branch, and a summing device. The

106-98-3-1/19

Synthesis of Characteristics

controls are used to vary the modulus of the transfer coefficient and the signal polarity of each branch. The transfer coefficient of the whole system is determined as follows: the voltage at the centre tapping of the delay line is considered as the fundamental and initially only two auxiliary branches α and β are assumed to be connected in circuit, the two branches α and β being symmetrically disposed with respect to the centre and having transfer coefficients with moduli p and q , respectively. Assuming a sinusoidal input voltage u_1 of frequency ω and letting the voltage at the centre of the delay line be:

$$u_0 = U_1 e^{i\omega t}$$

then the transfer coefficient of the system is:

$$F(\omega) = \frac{u_2}{u_1} = (1 + p e^{-i\omega\tau} + q e^{i\omega\tau}) e^{-i\omega\tau} \quad (3)$$

and since $e^{-i\omega\tau}$ represents a common phase lag, it can be ignored.

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Synthesis of Characteristics

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If $p \ll 1$ and $q \ll 1$, then from Eq.(3):

$$A(\omega) \approx 1 + (p + q) \cos n \tau \omega \quad (4),$$

$$B(\omega) \approx (p - q) \sin n \tau \omega \quad (5).$$

Thus, from Eqs. (4) and (5), it follows that by connecting additional branches and adjusting the controls, any desired characteristic can be obtained. The apparatus may also be used to obtain any given transfer coefficient. The functioning of the apparatus is illustrated with examples and the errors due to taking a finite number of terms are calculated. There are 5 figures and 7 references, 4 of which are Soviet, 2 English and 1 German.

SUBMITTED: August 22, 1957

AVAILABLE: Library of Congress

Card 3/3

1. Amplitude frequency-Characteristics

Doc. 6 m. 200, V. 6.

- 6(0) PHASE I BOOK EXPLOITATION SOV/2792
Akademiyu nauk SSSR. Laboratoriya sistem peredachi informatsii
Problemy peredachi informatsii, vyp. 2 (Problems of Information
Transfer, Nr. 2) Moscow: Izdat. AN SSSR, 1959. 99 p. Errata
slip inserted. 2,000 copies printed.
- Ed. of Publishing House: Ye.K. Vinichenko; Tech. Ed.: Yu.
Nylina; Editorial Board: A.A. Kharkevich (Resp. Ed.), V.N.
Kuznetsov, I.A. Ovsyevich, V.N. Roginskiy, and V.G. Solomonov.
- PURPOSE: This collection of articles may be useful to engineers
engaged in the design of wire communication systems.
- COVERAGE: The authors discuss the theory of transmission of infor-
mation, describe methods used in transmission. They consider
attenuation of signals over a line and cable impedance and discuss
problems of coding, decoding, and predicting communication sig-
nals. They also consider statistical analysis of information sig-
nals and discuss systems used. No personalities are mentioned.
- SUMMARY, Ye.G. The Least Error and the Best Method of Transmitting
Statistical Information with Linear Coding and Decoding for the
Case of Quasi-Stationary Communication Channels
The author derives formulas expressing the mean-square
error of transmission and obtaining the best method of translat-
ing information, with linear coding and decoding, by Gaussian
communication channels. There are 3 references, all Soviet
(including 1 translation).
- Kazaryan, R.A. Some Problem of Prediction of Communication
Signals
The author discusses problems of constructing circuits for
signal prediction and analyzes their operation under near-
actual operating conditions. He also presents an example of
extrapolating a speech signal. There are 11 references: 6
Soviet (including 1 translation) and 5 English.
- Meshkovskiy, K.A. Some Problems of the Theory of Coding
The author discusses the principle of constructing, analyzing
and comparing of codes. There are 5 references: 3 Soviet and
2 English.
- Garmash, V.A. Methods of Using Punched-card Computing Machines
for Statistical Information Analysis
The author shows the advantages of punched-card computing ma-
chines over other types of computers for statistical analysis
of information. He also discusses methods of using these ma-
chines. There are 3 references, all Soviet.
- Lebedev, D.J. Device for Printing Images on Punched Tape
The author describes a device for printing images on punched
tape. The device is used in the study of statistics of tele-
vision information. It converts a continuous signal obtained
in scanning a motion picture into a sequence of binary num-
bers. There are 2 references, both Soviet.
- Lebedev, D.J. and V.A. Garmash. Statistical Analysis of Three-
Letter Combinations of a Russian Text
The authors present methods and results of a study of fre-
quency of three-letter combinations of a Russian text and de-
termining the rate of transmission of telegraph information.
There are 3 references: 1 Soviet and 2 English.
- Kolomoyn, V.G. Errors in the Synthesis of Characteristics
The author presents a theoretical proof of the possibility
of synthesizing characteristics and analyzes the error of
synthesis by means of a delay-line system. There are 5
references, all Soviet.
- Tsengel, G.I. Some Problems in the Operation of a Time Equalizer
The author derives an expression for determining delay time of
a time equalizer from the pulse characteristic of a communi-
cation channel and determines the nature of equalizer distortions.
He also discusses deviations of the attenuation characteristic
of an equalizer operating in a linear spectrum. There are 9
references: 3 Soviet and 6 English.

PINSKER, Mark Semenovich; YAGLOM, A.M., otv. red.; SOLOMONOV, V.G.,
zamestitel' otv.red.; SOROKIN, I.P., red.izd-va; VOLKOVA, V.V.,
tekhn.red.

[Information and the informational stability of random quantities
and processes] Informatsiia i informatsionnaia ustoichivost'
sluchainykh velichin i protsessov. Moskva, Izd-vo Akad.nauk SSSR,
1960. 201 p. (Problemy peredachi informatsii, no.7). (MIRA 14:8)
(Information theory)

SOLOMONOV, V.G.

Linear displacement of a synthesized characteristic. Prohl.pered.
inform. no.6:147-150 '60. (MIRA 13:11)
(Frequency regulation)

BLOKH, Efraim Leont'yevich; KHARKEVICH, A.A., otv.red.; SOLOMONOV, V.G.,
kand.tekhn.nauk, zam.otv.red.; GRIGOR'YEV, Ye.N., red.izd-va;
SIMKINA, G.S., tekhn.red.

[Interference rejection of communication systems with feedback.]
Pomekhoustoichivost' sistem svyazi s peresprosom. Moskva, 1963.
170 p. (Problemy peredachi informatsii, no.13). (MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Kharkevich).

SOLOMONOV, V.G., kand. tekhn. nauk; LAKHAROVA, I.V.

Recognition of continuous functions. Probl. pered. inform. no.15:
71-74 '63 (MIRA 17:3)

L 33501-65 EWG(j)/EWT(m)/EPF(c)/EWP(j)/EWA(h)/I/EWA(1) Pc-4/Pr-4/Feb RM
ACCESSION NR: AR5003889 S/0081/64/000/018/S085/S085

SOURCE: Ref. zh. Khimiya, Abs. 18S493

AUTHOR: Bezuglyy, V. D.; Solomonov, V. M. 15 35 B

TITLE: A method for production of plastic scintillators in the form of granules

CITED SOURCE: Sb. Stsintillyatory i stsintillyats. materialy. Khar'kov, Khar'kovsk. un-t, 1963, 22-24

TOPIC TAGS: scintillator, plastic, polymerization, polystyrene, dosimetry, granule formation 19

TRANSLATION: In order to obtain polystyrene scintillators in the form of granules ranging in size from 0.1 to 1 mm, a granular polymerization method was selected. The technical processes were found which make it possible to control particle size. A stainless steel reactor (1 l in capacity) equipped with stirrer and reflux condenser is charged with 133 g of styrene and 2% p-terphenyl and 0.06% ROROR are introduced at 50° C. After complete dissolution, benzoyl peroxide and polyvinyl alcohol stabilizer solution are added. 150-500% water is added. The mixture is heated to 80° C and kept at this temperature for 6 hours after which it is cooled 15

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ACCESSION NR: AR5003889

to 40° C. The obtained suspension is washed on a filter. The granules are dried at 20° C and sieved to obtain the proper size fraction. The yield of granules is in excess of 90%. The obtained scintillators will be used for measurement of radioactive dosimetry. Work has been initiated on the production of scintillators from polymethyl styrene by an analogous method. L. Kotlyarevskaya

SUB CODE: OC

ENCL: 00

Card 2/2

SOLOMONOV, V.M., kand. tekhn. nauk

Adjustment of valves according to
IIT no.10:56-59 '59.
(Valves)

diagrams. Trudy Khab.
(MIRA 12:7)

RYBNIKOV, V.A.; PILIPENKO, M.B.; SOLOMONOV, Ye.F.

Unburned chrome-magnesite bricks for end walls of average capacity open-hearth furnaces. Ogneupory 22 no.11:492-496 '57. (MIRA 11:1)

1. Leningradskiy institut ogneuporov (for Rybnikov). 2. Kuznetskiy metallurgicheskiy kombinat (for Pilipenko, Solomonov).
(Firebrick) (Open-hearth furnaces)

BENEDIKTOVA, N.B.; ZAMYATIN, S.R.; MEMNONOVA, T.V.; SOLOMONOV, Ye.F.

Manufacture of resin and dolomite firebrick and its testing in
service. Ogneupory 27 no.4:151-155 '62. (MIRA 15:4)

1. Kuznetskiy metallurgicheskiy kombinat.
(Firebrick)

USSR/Medicine - Otolaryngology

Medicine - Dysentery

May 1947

"The Question of Latent Otitis as the Cause of Toxicosis in Toxic Dyspepsia and Dysentery," E. V. Solomonov, 6 pp

"Vest Oto-rino-larin" No 3

Discusses causes of toxicosis with following conclusion: (1) The role of latent (hypothetical) otitis in etiological toxicosis for toxic dyspepsia and toxic dysentery is often overestimated. (2) Attitude of basing paracentesis and antitoxin on the general serious condition and underestimating the otoscopic data is in need of revision.

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(3) At present, the result of paracentesis is more effective in cases of otological disposition, the sooner it is carried into effect.

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SOLOMONOV, Ye. V.

Cand. Medical Sci. Mbr., Children's Infections Hosp., Frunze Rayon, Moscow, -c1948-.
"The Question of Latent Otitis as the Cause of Toxic Dysentery and
Dysentery," Vest. Oto-Rino-Laringol., No. 3, 1947; "Use of Penicillin to Treat Complications of the Upper Respiratory Tract and the Ear in Scarlet Fever Patient," Vop Ped. Okhran. Mater. i Det., 16, No. 4, 1948

SOLOMONOV, Ye. V.

447T90

USSR/Medicine - Scarlet Fever
Medicine - Penicillin

Jan/Feb 1948

"Penicillin Therapy in Scarlet Fever Complications,"
Ye. V. Solomonov, Candidate Med Sci, Cent Sci Res Inst
Otorhinolaryngol, Ministry Health RSFSR, 32 pp

"Vest Oto-Rino-Laringol" No 1

Describes treatment of children with scarlet fever by
intramuscular injection of penicillin every four hours
for 5 - 10 days depending on condition of the patient.
Indicates satisfactory results and advocates use.

47T90

USSR/Medicine - Penicillin, Therapy Jul/Aug 48
Medicine - Scarlet Fever, Therapy

"Use of Penicillin to Treat Complications of the Upper Respiratory Tract and the Ear in Scarlet Fever Patients," Ye. Solomonov, Cand Med Sci, Children's Infectious Hosp, Frunze Rayon, Moscow, 1 3/4 pp

"Vop Ped 1 Okhren Mater 1 Det" Vol XVI, No 4

Data includes 106 cases. Concludes that penicillin is effective against otitis, necrotic and phlegmonous angines, ulcerous stomatitis, acute purulent sinusitis, and purulent lymphadenitis

34/497104

USSR/Medicine - Penicillin, Therapy Jul/Aug 48
(Contd)

with periodontitis in scarlet fever patients.

34/497104

SOLOMONOV, Ye.V.

Functional state of the auditory organ and of the vestibular apparatus in various stages of hypertension. Vest. otorinolar., Moskva 14 no. 5: 32-38 Sept-Oct 1952. (CLML 23:3)

1. Candidate Medical Sciences. 2. Of the Central Scientific-Research Institute for Certification of Working Capacity and Organisation of Work of Invalids.

SOLOMONOV, E.V., starshiy nauchnyy sotrudnik; PIS'MENNYI, R.Ya., starshiy
nauchnyy sotrudnik

Effect of stimulation of the vestibular analyzer on the functional
state of the heart; electrocardiographic data. Vest. oto-rin. 16
no.4:20-25 J1-Ag '54. (MIRA 7:8)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo instituta ekspertizy
trudospособnosti i organizatsii truda invalidov.

(HEART, physiology,

*eff. of stimulation of vestibular appar., ECG)

(VESTIBULAR APPARATUS, physiology,

*eff. of stimulation on heart, ECG)

SOLOMONOV, Ye.V., starshiy nauchnyy sotrudnik

A method of determining capacity for work and arrangement of work in impaired hearing, deafness and deaf-muteness. Vest.otorin. 18 no.2: 35-39 Mr-Apr '56. (MLRA 9:7)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov

(HEARING DISORDERS

work capacity & work accomm. determ. & work accomm.)

(WORK, in various dis.

accomm. & capacity determ. in hearing disord.)

SOLOMONOV, Ye.V. (Moskva)

Significance of otoneurological examination in disability evaluation of subjects with residual symptoms of encephalitis [with summary in English]. Vest.oto-rin 21 no.1:83-87 Ja-F '59 (MIRA 12:1)

1. Iz Tsentral'nogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov.

(ENCEPHALITIS, compl.

late seq., value of otoneurol. investigation for expert testimony of work capacity (Rus))

(EXPERT TESTIMONY,

on work capacity in encephalitis with late seq. value of otoneurol. investigation (Rus))

(WORK,

capacity in encephalitis with late seq. value of otoneurol. investigation in expert testimony (Rus))

SOLOMONOV, Ye.V., starshiy nauchnyy sotrudnik

Expert work capacity evaluation in hearing loss. Vest. otorin.
22 no. 6:44-49 '60. (MIRA 14:1)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo instituta ekspert-
tivy trudosposobnosti i organizatsii truda invalidov, Moskva.
(HEARING---TESTING) (DISABILITY EVALUATION)

SAFIR'YI, N.M.; URBAN, V.P.; PILLER, N...; JALYMA, Y.S.

Selecting the rate of press molding of refractories. (Gosstroy 30
no.5:23-27 '65. (MIRA 18:5)

1. Kuznetskiy metallurgicheskiy kombinat.

SHAKIR'YANOV, Nazib (1928-); SOLOMONOVA, A., red.; MIRONOV, A.,
tekhn. red.

[Atlantic diary]Atlanticheskii dnevnik. Riga, Latviiskoe
gos.izd-vo, 1962. 243 p. (MIRA 15:8)
(Voyages and travels)

ACCESSION NR: AP4037177

8/0069/64/026/003/0324/0329

AUTHOR: Kiselev, A. V.; Ly*gin, V. I.; Solomonova, I. N.

TITLE: Infrared study of chemically modified aerosil

SOURCE: Kolloidny*zhurnal, v. 26, no. 3, 1964, 324-329

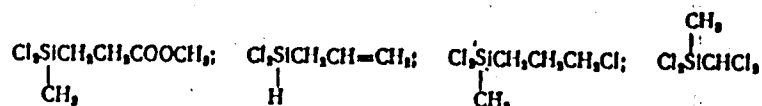
TOPIC TAGS: aerosil, modified aerosil, aerosil adsorbent, gas chromatography, infrared aerosil spectrum, substituted dichlorosilane, surface active ester, radical heat resistance, hydroxy group, aerosil adsorptive property, deuterium treatment, chlorine containing group, allyl radical

ABSTRACT: The work concerns aerosils treated with surface-active esters, allyl and chlorine-containing functional groups, for use as adsorbents and carriers for gas chromatography or fillers and pigments for polymers. The aerosil used (made by Degus) had a surface of 170 m²/g. Substituted dichlorosilanes with carbon chains of various length and functional endgroups were used as modifiers in a dioxane medium.

Card

1/3

ACCESSION NR: AP4037177



The laboratory procedure is described. The extent of substitution of surface hydroxyl groups by organic radicals was found at less than 50% (C determination by wet combustion). The material obtained was pressed into tablets for infrared inspection. The spectra were obtained and it was concluded that mainly free surface hydroxyl groups participated in the modification reaction; the functional ester and chlorine-containing groups surface radicals are hydrogen-bonded to the remaining surface hydroxyls; and the most heat-resistant radicals were those with ester and chlorine-containing groups, allyl was less heat resistant. At the low experimental density of the modifying layer, the remaining hydroxyl groups determined essentially the adsorptive properties of the modified aerosils. Treatment with deuterium and methylation of the latter's surface revealed availability of part of the surface hydroxyls for small molecules and another part for large molecules, such as diethyl ether. For gas chromatography denser layers should be

Card 2/3

ACCESSION NR: AP4037177

obtained. "The authors wish to thank K. D. Sheherbakov and I. V. Dorisenko for their help in modifying the specimens and in their analysis." Orig. art. has: 4 formulas and 1 figure.

ASSOCIATION: Moskovskiy universitet im. M. V. Lomonosova, Khimicheskiy fakul'tet (Moscow University Chemistry Faculty)

SUBMITTED: 24Jul63

ENCL: 00

SUB CODE: GC

NO REF SOV: 011

OTHER: 005

3/3

Card

POLIKAR, A.; TENCHEV, G.; SOLOMONOVA, K.; STOYANOV, D. [Stoianov, D.];
DITSOV, S.

Tests in a simultaneous immunization against diptheria, tetanus,
whooping cough, and tuberculosis. Trudy epidemiol mikrobiol 8:
65-72 '61 [publ.'62].

MANOLOV, D.G., d-r; MARCHEV, N.; GAKEV, V.; SOLOMONOVA, K.

Selection of producer-horses for producing antitetanic serum.
Trudy epidemiol mikrobiol 8:185-188 '61 [publ.'62].

ZAKHARIYEVA, M. [Zakharieva, M.K.], d-r; SOLOMONOVA, K.

Standardization of the tetanus anatoxin. Pt. 1. Trudy epidemiol
mikrobiol 8:83-89 '61 [publ.'62].

1. Chlen Redaktsionnoy kollegii, "Trudy Nauchno-issledovatel'-
skogo instituta epidemiologii i mikrobiologii" (for Zakharieva).

X

SOLOMONOVA, L.N.

Atherosclerotic cardiosclerosis. Sov. med. 21 no.7:56-65 J1 '57.
(MIRA 12:3)

1. Iz gospiatal'noy terapevticheskoy kliniki (dir. - prof. P.Ye. Lukomskiy) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina.

(ARTERIOSCLEROSIS

atherosclerotic cardiosclerosis (Rus))

(CORONARY DISEASES, complications,

arteriosclerotic cardiosclerosis (Rus))

SOLOMONOVA, L. B., Cand Med Sci -- (diss) "Atherosclerotic cardiosclerosis. (A clinico-morphological investigation)." Moscow, 1960. 14 pp; (First Moscow Order of Lenin Medical Inst im I. M. Sechenov); 200 copies; price not given; (KL, 18-60, 157)

L 06426-67 EWT(1)/EWT(m)/EWP(j) IJP(c) GG/RM
ACC NR: AP6026701 SOURCE CODE: UR/0181/66/008/008/2455/2457
AUTHOR: Poplavko, Yu. M.; Solomonova, L. P.
ORG: Kiev Polytechnic Institute (Kievskiy politekhnicheskii institut)
TITLE: Dielectric relaxation in triglycine sulfate crystals
SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2455-2457
TOPIC TAGS: dielectric property, sulfate, glycine, ferroelectric crystal

ABSTRACT: The dielectric relaxation of triglycine sulfate (TGS) was studied over a wide frequency range (10^2 - 10^{10} cps), and the relaxation spectrum was analyzed. Two regions of dielectric relaxation were observed. In the first (low-frequency) region, the increase of ϵ' and $\tan \delta$ with decreasing frequency may be due to the fact that process of reorientation of the domains begins to manifest itself even in low electric fields. In the second region (10^5 - 10^7 cps), the relaxation spectrum is more diffuse than in the case of classical Debye relaxation. The relaxation time obtained was 10^{-5} - 5×10^{-7} sec. The relaxation spectrum of the TGS crystals changes radically when a bias electric field is applied: ϵ' and $\tan \delta$ decrease in a strong field ($E_b = 7$ kV/cm) and the spectrum becomes more diffuse. On the other hand, at $E_b = 0.02$ - 0.04 kV/cm, $\tan \delta$ increases substantially (by a factor of 20-40 in some crystals), but the value of $\tan \delta_{\max}$ does not remain constant and in 20-100 sec drops by 30-50%. The increase of the dielectric loss of TGS in the vicinity of the domain relaxation at

Card 1/2

L 06426-67

ACC NR: AP6026701

a weak subpolarization is apparently due to the appearance of nuclei of new domains; this leads to a more intense relaxation, since the concentration of domain walls in the crystal increases considerably. This explanation accounts for both the time instability of the effect described and for its hysteresis-type character. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 03Sep65/ ORIG REF: 004/ OTH REF: 005

Card 2/2 *llh*

SOLOMONOVA, M.; AKIMOV, A.

Programs for economic development in India and Burma [with
summary in English, p.31]. Vnesh. torg. 26 no.8:7-12 Ag '56.
(MLRA 9:10)

(India--Economic policy) (Burma--Economic policy)

YAKOVLEVA, Nina Vasil'yevna; SOLOMONOVA, Margarita Dmitriyevna; KOSTINSKIY,
D.N., redaktor; NOGIMA, N.I., tekhnicheskiy redaktor

[Thailand] Tailand. Moskva, Gos.izd-vo geogr. lit-ry, 1957. 37 p.
(Thailand) (MIRA 10:7)

SOLOMONOVA, Nadezhda Leonidovna; VOL'FKOVICH, S.I., akademik, akad.;
KONDRASHKOVA, S.F., red.; GUR'YANOV, V.P., tekhn.red.

[Analysis of gases] Gazovyi analiz. Moskva, Izd-vo
Mosk. univ. 1957. 35 p. (Laboratornyi praktikum po khimicheskoi tekhnologii, no.2) (MIRA 17:1)

SOLOMONOVA, Madezhda Leonidovna; VOL'FKOVICH, S.I., akademik, red; KONDRASHKOVA,
S.F., red.; GUR'YANOV, V.P., tekhn.red.

[Gas analysis; laboratory practices in chemical engineering]
Gazovyi analiz; laboratornyi praktikum po khimicheskoi tekhnologii.
[Moskva] Izd-vo Mosk.univ. No.2. 1957. 35 p. (MIRA 11:5)
(Gases--Analysis)

ALEKSANDROVA, G.G.; ZHUKOVA, V.A.; KONDRAT'YEV, N.N.; KUSKOV, V.K.;
MALETS, A.M.; SOLOMONOVA, N.L.; FEDOROVICH, R.M.;
VOL'FKOVICH, S.I., akademik, red.; KOROBTSOVA, N.A., red.;
YERMAKOV, M.S., tekhn. red.

[Work in technology] Tekhnologicheskie raboty. Moskva, Izd-
vo Mosk. univ. 1963. 115 p. (Laboratornyi praktikum po khi-
micheskoi tekhnologii, no.4) (MIRA 17:1)

SOLOMONOVA, O.N.

Practices in crossbreeding Swedish Black and White cattle with
Jersey cattle. Trudy Inst. gen. no.29:276-281 '62.

(MIRA 16:7)

(Dairy cattle breeding)

SOLOMONOVA, O.N.

Study of the effectiveness of crossing Swedish Black and White with Jersey bulls on various farms. Trudy Inst. gen. no.33:51-56 '65.

Some physiological characteristics of Jersey cattle crosses. Ibid.:57-60 (MIRA 18:12)

SOLOMONOVA, H.

Regulation of foreign trade in Burma [with English summary in
insert]. Vnesh. torg. 28 no. 5:40-43 '58. (MIRA 11:6)
(Burma--Commerce)

SOLOMONOVA, T.V.

Treatment of internal diseases by tissue extracts. Vrach.delo no.2:
(MLBA 9:?)
201-202 P '56.

1. Kafedra vnutrennikh bolezney Molotovskogo meditsinskogo stomatologicheskogo instituta.
(TISSUE EXTRACTS)

SOLOMONOVA, YE.I.

SHAFIR, A.I., professor; APNSHINSKAYA, N.M., nauchnyy sotrudnik;
~~SOLOMONOVA, YE.I.~~ nauchnyy sotrudnik

Hygienic rating of various types of ventilation in apartment houses
[with summary in English]. Gig. i san. 22 no.1:18-25 Ja '57.
(MLRA 10:2)

1. Iz Leningradskogo nauchno-issledovatel'skogo sanitarno-gigiyeni-
cheskogo instituta.

(VENTILATION

hyg. characteristics of various types in dwellings (Rus))

SOLOMONOVICH, A. 

General, Scientific-Popular Literature (2021)
Metsniyereba da tekhnika, No 5, 1953, pp 14-18

SOLOMONOVICH, A.

"Radioastronomy"

Describes radio apparatus used in astronomy.

SO: Referativnyy Zhurnal--Astronomiya i Geodeziya, No 2, Feb 54; SO: (W-30785, 28 July 1954)

SOLOMONOVICH, A. E. , VIKHRECH, V. V., FOMIN, A. D., and UDALTSEV, V. A.

"Radioimage of the Sun on the 3 cm wavelength,"

PAPER SUBMITTED FOR THE SYMPOSIUM ON RADIO ASTRONOMY, 30 Jul - 6 Aug 58, Paris,

SOLOMONOVICH, M.A. (Rostov-na-Donu).

Questioning students during astronomy lessons. Fiz. v shkole 18
no.2:112-114 Mr-Apr '58. (MIRA 11:2)
(Astronomy--Study and teaching)

BIRYUKOV, V.I., kandidat tekhnicheskikh nauk. SOLOMONOVICH, Ye.D., kandidat tekhnicheskikh nauk.

Three-component instrument for measuring cutting forces. Trudy MNI
no.17:179-183 '56. (MLRA 9:10)
(Metal cutting) (Measuring instruments)

EXCERPTA MEDICA Sec 2 Vol 13/5 Physiology May 60

2451. HIGHER NERVOUS ACTIVITY IN PATIENTS WITH A TRAUMATIC
CEREBRAL SCAR - Cercetări de activitate nervoasă superioară la bolnavii
cu cicatrice cerebrală traumatică - Solomonovici A. and Marcovici
N. - STUD. CERCET. NEUROL. 1958, 3/4 (453-464) Graphs 1 Tables 3
illus. 1

Higher nervous activity was studied in 18 persons with a history of head injury, most of whom were hemiplegic and suffered from epileptic seizures. Tests used were the verbo-motor conditioned reflex method of Ivanov and Smolenski, the verbo-verbal association method and the reproduction of a rhythm. Results were interpreted according to pavlovian concepts. Defective fixation of conditioned reflexes, decrease of active inhibition and reduced mobility of cortical processes were found in these patients. Surgical excision of the scar was followed by considerable improvements.

Voiculescu - Bucharest (II, 8*)

MISON-CRIGHEL, N.; PINTILIE, C.; CONSTANTINESCU, E.; LUCA, N.;
COSTA-FORU, D.; SOLOMONOVICI, A.

The effect of blood sugar changes on intermediate metabolism
in patients with asthenic neuroses. I. Effect of the administra-
tion of glucose and insulin. Rev. sci. med. 8 no.3/4:111-115
'63.

(NEURASTHENIA) (BLOOD SUGAR) (GLUCOSE)
(INSULIN) (PHARMACOLOGY) (METABOLISM)
(MENTAL DISORDERS)

PINTILIE, C.; COSTA-FORU, D.; MISON-CRIGHEL, N.; CONSTANTINESCU, E.;
LUCA, N.; SOLOMONOVICI, A.

The effect of blood sugar changes on intermediate metabolism
in patients with asthenic neuroses. II. Effect of treatment
with increasing doses of insulin. Rev. sci. med. 8 no.3/4:
159-162 '63.

(BLOOD SUGAR) (INSULIN) (NEURASTHENIA)
(PSYCHOSES, MANIC-DEPRESSIVE) (METABOLISM)
(CITRATES)

SANDRU, L., ing.; RADULESCU, L., ing.; STATULESCU, I., tehn.; SCLOMONOVICI, I.,
tehn.

New aspects of the research on rock pressure in lignite mines. Rev
min 15 no.2:62-73 F '64.

SCHIFFER, Menahem; SPENCER, Donald C.; SOLOMONTSEV, Ye.D. [translator];
BITSADZE, A.V., red.

[Functionals of finite Riemann surfaces by Menahem Schiffer and
Donald C. Spencer. Princeton, N.J., 1954] [Translated from the
English] Funktsionaly na konechnykh rimanovykh poverkhnostiakh.
Perevod s angliiskogo M.D. Solomentseva. Pod red. A.V. Bitsadze.
Moskva, Izd-vo inostrannoi lit-ry, 1957. 347 p. 27^{cm}. (MIRA 11:10)
(Riemann surfaces)

SOLOMONYUK, R. ^Y/_E.

"Ultraviolet Luminescence of NaCl Crystals X-Rayed at Room Temperature," Dok. AN, 24,
No. 7, 1939. Mbr., Inst. Physics, Odessa, State Univ., in. I. I. echnikov, -1939-.

[illegible]

PLOTICHER, S.Ya., kand.fiz.-matem.nauk; NESTEROVSKAYA, Ye.A., kand.
fiz.-matem.nauk; KIRILLOV, Ye.A., prof., doktor fiz.-matem.
nauk, zasluzhennyy deyatel' nauki USSR, red.; SOLOMONYUK,
R.Ye., dotsent, kand.fiz.-matem.nauk, red.; SHAPIROVICH,
M.D., tekhred.

[Recent investigations of absorption centers in colored alkali
halide crystals] Novye issledovaniia tsentrov pogloshcheniia
v okrashennykh shchelochno-galoidnykh kristallakh. Odessa,
Odesskii gos.pedagog.in-t, 1959. 77 p. (MIRA 13:3)
(Alkali halide crystals)

BURSANOVSKIY, S.; SOLOMOVICH, M., inzhener, nachal'nik tsekha.

"Hot conveyer." Znan.sila no.10:36-37 0 '53.

(MLR 6:10)
(Car wheels)

SOLOMOVICH, M. A.

Geography - Study and Teaching

More about repeating the 5th grade course. Geog. v shkole No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

SOLOMOVICH, M.A.

Popular science literature in studying climate. Geog. v shkole 20 no.3:
33-38 My-Je '57. (MLRA 10:6)
(Climatology--Study and teaching)

SOLOMOVICH, Mikhail Aleksandrovich,; SMIRNOVA, N.P., red.; SIMAKOV, A.T.,
tekhn. red.; SHCHEPTEVA, T.A., tekhn. red.

[Belles lettres and popular science fiction in geography lessons
for grades 5 to 7; a manual for teachers] Khudozhestvennaia i
nauchno-populiarnnaia literatura na urokakh geografii v V-VII
klassakh; posobie dlia uchitelia. Moskva, Gos. uchebno-pedagog.
izd-vo M-va prosv. RSFSR, 1958. 127 p. (MIRA 11:11)
(Geography--Study and teaching)

AUTHOR: Solomovich, M.A., (Kostov-on-Don) 47-58-2-5/30

TITLE: The Testing of Pupils on Astronomy Lessons (Opros uchashchikh-
sya na urokakh astronomii)

PERIODICAL: Fizika v Shkole, 1958, Nr 2, pp 42-44 (USSR)

ABSTRACT: Only 34 hours (in one school year) are devoted to the study
of the astronomy, and not much time can be spared for testing
the pupils. The author describes a procedure by which as many
as 5 pupils can be tested in 15-18 minutes of each one-hour
lesson. Three pupils are called to the blackboard and given
problems to be solved, and 2 more are questioned by the teacher
at the same time. There is one Soviet reference.

AVAILABLE: Library of Congress

Card 1/1 1. Astronomy-Study and teaching

SOLOMOVICH, M.A.

Study of industry in lessons on the economic geography of the
U.S.S.R. Geog. v shkole 21 no. 4:40-45 J1-Ag '58. (MIRA 11:7)
(Geography, Economic--Study and teaching)

SOLOMOVICH, M. A. (Rostov-na-Donu)

Inculcating an interest in knowledge during geography lessons.
Geog. v shkole 26 no. 3:28-36 My-Je '63. (MIRA 16:6)

(Geography—Study and teaching)

SOLOVICH, Mikhail Aleksandrovich

[Belles lettres and popular science literature in geography lessons; a manual for teachers] Khudozhestvennaia i nauchno-populiarnaia literatura na urokakh geografii; posobie dlia uchitelei. Izd.2. Moskva, Uchpedgiz, 1961. 154 p.

(MIRA 18:12)

SHIFRIN, Mikhail Yul'yevich; SOLOMOVICH, Moisey Yakovlevich; ARONOVICH, M.S.,
redaktor; GOLYATKINA, A.G., redaktor; MIKHAYLOVA, V.V., tekhnicheskiy
redaktor

[The production of seamless rolled wheels and bands] Proizvodstvo
tsel'nokatanykh koles i bandazhei. Moskva, Gos. nauchno-tekhn. izd-
vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 500 p. (MLRA 8:3)
(Car wheels)

ZVYAGINTSEV, A.F.; IVANOV, Yu.N.; KAZAKOV, V.E.; STETSENKO, A.M.;
SOLOMOVICH, M.Ya.; KORZH, V.I.; DASHKEVICH, A.A.; Prinimali
uchastiye: LIPTSEN, S.Kh.; RYZHIKOV, A.P.; STAL'NOKRITSKIY,
V.N.; LEVENETS, L.Ye.; MOGILA, V.A.; KOVAL', A.A.; VLASOV, V.P.;
ROSHCHIN, A.G.; RAYKO, V.P.; KORNIYENKO, V.G.; PANTYUSHKIN, N.V.

Investigating the possibility of manufacturing all-rolled
electric locomotive wheels with existing equipment. Kuz.-shtam.
proizv. 5 no.11:11-14 N '63.

(MIRA 17:1)

SOLOMOVICH, Ye.I. (Stalino)

Noise abatement in the central blower plant. Gig.truda i prof.
zab. 2 no.3:56-57 My-Je '58 (MIRA 11:6)

1. Mediko-sanitarnaya chast' metallurgicheskogo zavoda imeni
Stalina.
(BLOWERS--NOISE)

8/12/64, 164.

Instruction measuring device for rolled strip. Stal' 24 no.12:

164-1107 P 164.

(MIRA 18:2)

MALINOVSKIY, M.S.; YUDASINA, A.G.; SKRODSKAYA, T.S.; SOLOMOYCHENKO, T.N.

Preparation and properties of asymmetrical oxides of methyl-
tert-hexylethylene, methyl-tert-hyptylethylene, and methyl-
tert-octylethylene. Ukr. khim. zhur. 30 no.1:72-74 '64.
(MIRA 17:6)

1. Dnepropetrovskiy gosudarstvennyy universitet.

POL'SKIY, N.I.; GOKHBERG, I.TS.; DYNIN, A.S.; SOLOMYAK, M.Z.; VILENKIN, N.Ya.;
BRODSKIY, M.L.; SKLIARENKO, Ye.G.

Summaries of papers accepted for publication by the Moscow
Mathematical Society. Usp. mat. nauk 18 no.2:179-188 Mr-Ap
'63. (MIRA 16:8)

(Moscow--Mathematical societies)

SOLOMYAK, M. Z.

Mathematical Reviews
Vol. 15 No. 2
Feb. 1954
Analysis

Solomyak, M. Z. On characteristic values and characteristic vectors of a perturbed operator. Doklady Akad. Nauk SSSR (N.S.) 90, 29-32 (1953). (Russian)

Let A, A_0 be bounded linear self-adjoint operators on a Hilbert space, and λ_0 an isolated eigen-value of A_0 with multiplicity n . Let also $\|R_{\lambda_0}\| \cdot \|A - A_0\| < \frac{1}{2}$, where R_{λ_0} is the generalised resolvent at λ_0 of A_0 . Then A will have n eigen-values in $|\lambda - \lambda_0| \leq \|A - A_0\|$, not necessarily distinct. This fact and inequalities for the eigen-values and eigen-vectors are stated by the author, in extension of the (precise) inequalities given by Gavurin [same Doklady (N.S.) 76, 769-770 (1951); these Rev. 12, 617] for simple eigen-values, but under more general conditions than self-adjointness. Gavurin gave no proofs, and some of these (but not all) are now supplied. *F. V. Atkinson (Ibadan).*

Solomiyak, M. Z.

Solomiyak, M. Z. On orthogonal bases in Banach space.
Vestnik Leningrad. Univ. 12 (1957), no. 1, 27-36, 238.
(Russian. English summary)

Let E be a separable Banach space, let $\{x_n\}$ be its basis.
Then $\{x_n\}$ is said to be orthogonal if and only if

$$\left\| \sum_{k=1}^{n+m} c_k x_k \right\| \geq \left\| \sum_{k=1}^n c_k x_k \right\|$$

is true for arbitrary scalars $c_1, c_2, \dots, c_n, \dots, c_{n+m}$. The author introduces the concept of a constrained subspace which gives a criterion for existence of an orthogonal basis. In fact, the author proves that the system of Haar [J. Schauder, Math. Z. 28 (1928), 317-320] is an orthogonal basis in $L_p([0, 1])$ and in arbitrary separable Orlicz spaces. A linear subspace E_0 of E is said to be constrained if and only if there exists a weakly closed (author uses the term "regularly closed") subspace $\bar{E}_0$ of the conjugate of E having the following properties: 1) For each $f \in \bar{E}_0$, $\sup_{x \in E_0, \|x\|=1} |f(x)| = \|f\|$; 2) for each $x \in E_0$ there exists $f \in \bar{E}_0$ such that $\|f\|=1$ and $f(x)=\|x\|$. The central theorem of the paper: E_0 is constrained if and only if there exists a projection P of E onto E_0 such that $\|P\|=1$.

P. Sazonov (Washington, D.C.).

2
I-FW

1/

AUTHOR: Solomyak, M. Z.

SOV/20-122-5-5/

TITLE: The Application of the Theory of Semigroups to the Investigation of Differential Equations in Banach Spaces (Primeneniye teorii polugrupp k issledovaniyu differentsial'nykh uravneniy v prostranstvakh Banakha)

PERIODICAL: Doklady Akademii nauk, SSSR, 1958, Vol 122, Nr 5, pp 766-769 (USSR)

ABSTRACT: The author considers the problem

$$(1) \quad \frac{du}{dt} + Au = f(t), \quad u|_{t=0} = u_0,$$

where $u = u(t)$ and $f(t)$ are elements of the complex Banach space X ; A is a closed unbounded operator with a region of definition $D(A)$ dense in X . If A is a generating operator of a certain semigroup of linear bounded operators $T(\xi)$, then the formal solution of (1) can be written in the form

$$(2) \quad u(t) = T(t)u_0 + \int_0^t T(t-\tau)f(\tau)d\tau.$$

Theorem. Let $u_0 \in X$; if $f(t)$ satisfies the condition $\text{Lip } \varepsilon$, $\varepsilon \leq 1$, then (2) defines the classical solution of (1), where $\frac{du}{dt} \in \text{Lip } \delta$

Card 1/2

The Application of the Theory of Semigroups to the Investigation
of Differential Equations in Banach Spaces SOV/20-122-5-5/56

for every δ , $0 < \delta < \varepsilon$.

A corresponding assertion holds for certain generalized solutions.
The results are extended to the equation

$$\frac{du}{dt} + Au + B(t)u = f(t)$$

and to parabolic partial equations in the L_p .

Essentially the results are transfers to Banach spaces of the
theorems obtained by Krasnosel'skiy [Ref 3] for Hilbert spaces.
There are 7 references, 2 of which are Soviet, 2 Japanese, and
3 American.

ASSOCIATION: Leningradskiy korablestroitel'nyy institut (Leningrad Institute
for Shipbuilding)

PRESENTED: May 30, 1956, by V.I. Smirnov, Academician

SUBMITTED: May 28, 1956

Card 2/2

SOLOMYAK, M.²~~S.~~, Cand Phys Math Sci — (diss) "~~Productive~~
operators of analytic polygroups and differential equations
in Banach spaces connected with them." Len, 1959, 8 pp
(Len Order of Lenin State Univ im A.A. Zhdanov) 150 copies
(KL, 33-59, 116)

- 6 -

SOLOMYAK, M.Z.

Differential equations in Banach spaces and their applications.
Trudy LKI no.28:213-226 '59. (MIRA 15:5)

1. Kafedra vysshey matematiki Leningradskogo korablestroitel'nogo
instituta.
(Spaces, Generalized) (Differential equations)

10

16(1)

AUTHOR: Solomyak, M.Z.

SOV/20-127-1-9/65

TITLE: The Analytic Nature of the Semi-Group Generated by an Elliptic Operator in L_p Spaces

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 37-39 (USSR)

ABSTRACT: Let Ω be a finite domain of R_n sufficiently smoothly bounded by Γ . Let the equation

$$(1) \quad \lambda u - A u = f(x) \quad (\lambda = \sigma + i\tau)$$

with the boundary condition

$$(2) \quad u|_{\Gamma} = \frac{\partial u}{\partial n}|_{\Gamma} = \dots = \frac{\partial^{m-1} u}{\partial n^{m-1}}|_{\Gamma} = 0$$

be considered in $\bar{\Omega}$, where it is

$$(3) \quad A u = (-1)^m \sum_{\alpha_1 + \dots + \alpha_n = 2m} a_{\alpha_1 \dots \alpha_n}(x) \frac{\partial^{2m} u}{\partial x_1^{\alpha_1} \dots \partial x_n^{\alpha_n}} + T u$$

Card 1/3