

The radiation vulcanisation of ...

S/081/63/000/004/049/051
B156/B180

plotted versus temperature in the 40 - 200°C range. The effect of irradiation on mixtures of rubbers with polyethylene or polystyrene is that cross-linking occurs between the two polymers, to form substances with valuable physical and mechanical properties: the plasticity is greatly reduced, while the strength, wear-resistance and heat-resistance are improved. Abstracter's note: Complete translation.

Card 2/2

VYACHESLAV SHCHIEV, V.M.

Finding slow-hardening cements for the reinforcement of high-temperature wells. Trudy Turk. fil. VNIIT Inst C no. 63120-112
'63 (MIRA 1737)

VYAZEL'SHCHIKOV, Viktor Petrovich; PARITSKIY, Zakhar Nikonovich;
IVANOVSKIY, M.D., prof., red.; MARENKOV, Ye.A., red.;
MISHARINA, K.D., red. izd-va; DOBUZHINSKAYA, L.V., tekhn. red.

[Handbook on the treatment of gold-bearing ores and placers]
Spravochnik po obrabotke zolotosoderzhashchikh rud i rossypei.
Pod red. M.D.Ivanovskogo. Moskva, Metallurgizdat, 1962. 650 p.
(MIRA 15:12)

(Gold—Metallurgy)

WAZEMSKAYA, Lubov' Orestovna

Moscow Order of Lenin and Order of Labor Red Banner Inst of Engineers of Railroad Transport imeni Stalin, Academic degree of Doctor of Pedagogical Sciences, based on her defense, 3 May 1954, in the Council of the 1st Moscow Pedagogical Inst of Foreign Languages, of her dissertation entitled: "Foreign languages in our higher technical educational institutions. Methods of teaching foreign languages in higher technical educational institutions (based on the material of the English language).

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 9, 16 April 55, Byulleten' MVD SSSR, No. 14, Jul 56, Moscow, pp 4-22, Uncl. JPRS/NY-429

VYAZEMSKAYA, N., kand.tekhn. nauk

Use of glass-reinforced plastics as ground protection layer in the
building of embankments. Rech. transp. 22 no.7:51 JI '63.

(MIRA 16:9)

(Glass reinforced plastics)
(Embankments)

VYAZEMSKAYA, N.I., kand.tekhn.nauk

Practical method of designing floating breakwaters in the form
of a rectangular pontoon with extra bouyancy. Trudy LIVT no.8:
42-57 '60. (MIRA 15:2)

(Breakwaters)(Floating bodies)

VYAZEMSKAYA, H. I.

"Investigation of the Effect of Turbulence on Rectangular Pontoons of Excess Buoyancy." Cand Tech Sci, Leningrad Inst of Water Transport Engineers, Leningrad, 1954. (RZhMekh, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions (14)

VYAZEMSKAYA, M.I., kand. tekhn. nauk

Investigating physicomechanical characteristics of scinson
arch type structures made of oriented glass-reinforced plastics.
Trud; LITV no.47:27-33 '63. (MIRA 17:9)

VYAZEMSKAYA, N.I., kand. tekhn. nauk

Physicomechanical characteristics of basaltoplast. Trudy LIT
no.66:27-32 '64. (MIRA 19:2)

VIAZEMSKIY, N.F.

Casting 6N81 cutting machine stands. Lit. proizv. no.11:27 N '60.
(MIRA 13:12)

(Founding)

(Cutting machines)

VYAZEMSKIY, O.V., starshiy nauchnyy sotrudnik kandidat tekhnicheskikh nauk.

Counterpressure in materials having a coalescent-porous skeleton.
Izv. VNIIG 56:3-12 '56. (MLBA 10:8)

(Soil mechanics)

~~VYAZEMSKII, G.N.~~, starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk;
YAGODIN, G.N., inzhener.

Approximate method of calculating the strength of earth and
concrete hydraulic structures according to round cylindrical
and any other arbitrary slipping surface. Izv. VNIIG 57:77-90
'57. (ISL 10:8)

(Structures, Theory of) (Foundations)

VYAZEMSKIY, O. V.

124-11-13216

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p. 135 (USSR)

AUTHOR: Vyazemskiy, O. V., and Yagodin, G. N.

TITLE: On an Approximate Calculation Method for the Stability of Earthen and Concrete Hydrotechnical Structures on Circular-Cylindrical and Otherwise Arbitrarily Shaped Slippage Surfaces. (O'priblizhennom metode rascheta ustoychivosti zemlyanykh i betonnykh gidrotekhnicheskikh sooruzheniy po kruglotsilindrisheskim i inym proizvol'nym poverkhnostyam skol'zheniya)

PERIODICAL: Izv. Vses. n.i. in-ta gidrotekhn., 1957, Vol 57, pp 77-90

ABSTRACT: An analysis is shown of two methods of derivation of the forces in the calculation of the stability of rigid structures and earthen slopes on circular-cylindrical or other slippage surface: Terzaghi (wherein the direction of the forces of interaction between the soil sectors is directed along the tangent to a segment of a circular-cylindrical slippage surface) and Crea (wherein the direction of the interaction force between the soil sectors is horizontal), with preference given the Crea method. In connection therewith, the Authors have developed a proposition relative to the calculation of the coupling

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124-11-13216

On an Approximate Calculation Method for the Stability of Earthen and Concrete
Hydrotechnical Structures on Circular-Cylindrical and Otherwise Arbitrarily Shaped
Slippage Surfaces.
(Continued)

force exerted within the soil. Also provided is a number of computational examples, and recommendations are made on certain practical aspects of the calculation for rigid structures as well as for earthen embankments.

(P. D. Yevdokimov)

Card 2/2

VYAZEMSKIY, O.V., starshiy nauchnyy setrudnik, kand. tekhn. nauk

Designing hydrotechnical earth structures with consideration of
weighing forces. Izv. VNIIG 47:46-56 '52. (MIRA 12:6)
(Earthwork)

124-57-1-778

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 103 (USSR)

AUTHORS: Vyazemskiy, O. V., Kuz'mishchev, P. F., Mikhalevich, P. A.

TITLE: The Operation of an Alluvial Buttress Dam in Complex Hydrogeological Conditions (Rabota namyvnoy podpornoy damby v slozhnykh gidrogeologicheskikh usloviyakh)

PERIODICAL: Izv. Vses. n.-i. in-ta gidrotekhn., 1955, Vol 54, pp 126-139

ABSTRACT: This is the conclusion of a paper bearing the same title and written by the same authors (RzhMekh, 1955, abstract 3157). Following a rise in the headwater level to 50 cm above the normal design level, observations afforded a more accurate picture of the seepage through the foundation of the dam; measures for the improvement of its operation are outlined. Various problems of the stability of the dam and various aspects of the seepage and the hydrochemical and hydrothermal compartment of the dam, as well as the mechanical piping, are examined.

V. V. Fandeyev

1. Dams---Seepage 2. Dams--Stability 3. Dams--Evaluation

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VYAZEMSKIY, O.V., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk.

Forces exerted by heavy liquids on the soil skeleton. Izv.VNIIG
41:40-48 '49. (MLRA 10:2)

(Soil mechanics)

~~VIKAZENSKIY~~ O.V., starshiy naychnyy sotrudnik, kandidat tekhnicheskikh nauk.

Designing plain and reinforced concrete hydraulic structures allowing for suspended forces. Izv. VNIIG no.45:21-67 '51.
(MLRA 10:3)

(Concrete construction) (Hydraulic engineering)

VYAZEMSKIY, O.V., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Simplified method for the calculation of inertia forces in
the design of lock gates. Izv.VNIIG 48:30-42 '52.

(MIRA 12:5)

(Locks (Hydraulic engineering))

VYAZEMSKIY, O.V., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk.
MIKHAILEVICH, P.A., inzhener; KUZ'MISHCHEV, P.F., inzhener.

Operation of a hydraulic fill backwater dam in complex hydrogeologic
conditions. Izv.VNIIG no.54:126-139 '55. (MIRA 10:3)
(Dams)

YEVDOKIMOV, Pavel Dmitriyevich; VYAZEMSKIY, O.V., redaktor; VORCHETSKAYA,
L.V., tekhnicheskiy redaktor.

[Foundation firmness and stability of hydraulic structures on
soft ground] Prochnost' osnovanii i ustoychivost' gidrotekhnicheskikh
sooruzhenii na miagkikh gruntakh. Moskva, Gos. energ. izd-vo,
1956. 271 p. (MIRA 9:5)

(Foundations)

-VYAZEMSKIY, O.V., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk.

Action of the forces of a heavy liquid on the skeleton of concrete.
Izv.VNIIG no.43:89-109 '50. (MLBA 10:2)
(High-pressure research) (Concrete--Testing)

VYAZEMSKIY, O.V., kandidat tekhnicheskikh nauk

Conference on problems of uplift on hydraulic structures. Gidr.
stroi.24 no 6:47-3 of cover '55. (MIRA 8:12)
(Hydraulic engineering)

VYAZEMSKIY, O.V

AID P - 3385

Subject : USSR/Hydr Eng
Card 1/1 : Pub. 35 - 16/16
Author : Vyazemskiy, O. V., Kand. Tech. Sci.
Title : Conference on pressures in hydraulic installations
Periodical : Gidr. stroi., 6, 47-49, Je 1955
Abstract : A summary of addresses delivered at the conference dealing with pressure of rocky and clayey soils on hydraulic installations and on their stability.
Institution : None
Submitted : No date

VYAZEMSKIY, O. V., KUZ'MISHCHEV, P. F., AND MIKHALEVICH, P. A.

Operation of an Alluvial Dam in Complex Hydrogeological Condition

The authors describe the hydrogeological conditions of an earth dam constructed in a region formerly covered by ice. The dam under discussion is limited in height to 17 meters. The authors discuss the filtration regime in the body and foundation of the dam during 11 years of use and describe the additional drainage measures which were necessitated by the appearance of springs. (RZhMekh, No. 6, 1955) Izv. Vses. n.-i. in-ta Gidrotekhn., Vol. 52, 1954, 145-170.

SO: Sum, No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

VIAZEMSKIY, O.V., kandidat tekhnicheskikh nauk; YERSHOV, D.F., inzhener.

Some special features in damming the Volga River at the city of
Uglich. Gidr. stroi. 25 no.7:21-24 Ag '56. (MLRA 9:10)

(Volga River--Dams)

VYAZEMSKIY, O.V., starshiy nauchnyy sotrudnik, kand.tekhn.nauk; MIKHALEVICH,
P.A., inzh.; KUZ'MISHCHEV, P.F., inzh.

Studying the performance of a concrete dam under complex geological
conditions. Izv.VNIIG 64:3-31 '60. (MIRA 14:5)
(Dams)

BELOVA, L.N., red.; BORISOV, N.Ya., red.; VYAZEMSKIY, S.M., red.;
MAVRODIN, V.V., red.; NIKITIN, P.Ye., red.; VISHNYA, L.P., red.

[Guidebook for Leningrad] Putevoditel' po Leningradu.
Leningrad, Lenizdat, 1963. 787 p. (MIRA 17:4)

VYAZENSKIY, V. O. and FEOFANOV, G. N.

"Transitron Oscillator", Sb. Tr. Stud. Nauch. Obshch. Leningrad. Elektrotekhn. Inst., No 1, 1953, pp 29-38.

A schematic diagram for obtaining the transitron characteristic on an oscillator screen, i. e., the dropping section of a pentode characteristic is described. A method of increasing the slope of the transitron characteristic by means of feedback coupling of the anode to the control grid of the tube is pointed out. The dependence of the frequency on the control grid voltage is used for frequency modulation. (RZhFiz, No 1, 1955)
SO: Sum. No. 443, 5 Apr. 55

VYAZEMSKIY, V.O.

AUTHOR: Vyazemskiy, V.O.

109-4-18/20

TITLE: A Possibility of Constructing a Fast Amplitude Analyzer.
(Ob odnoy vozmozhnosti postroyeniya bystrodeystvuyushchego
amplitudnogo analizatora)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.2, No.4,
pp. 507 - 509 (USSR)

ABSTRACT: The proposed system is based on the principle of quantizing the signal (pulse) by means of a regenerative circuit, in which the number of the stable states is equal to that of the analyser channels. The system consists of a pulse-lengthening circuit, a deflection amplifier, a quantizing cathode-ray tube, an output amplifier, a gate generator, a storage tube with a gate generator and a time base, and an adding circuit. Functioning of the system is briefly described and its block schematic is shown. An experimental analyzer of this type was constructed; it had 25 channels and its quantizing time was about 0.5 μ sec.

There are 4 references, of which 2 are Slavic.

SUBMITTED: September 27, 1956.

AVAILABLE: Library of Congress.
Card 1/1

SOV/120-58-5-9/32

AUTHOR: Vyazemskiy, V. O.

TITLE: Counting Losses in Multi-Channel Pulse Height Analyzers Using Periodic Memory Devices (Poteri scheta v mnogokanal'nykh amplitudnykh analizatorakh, ispol'zuyushchikh periodicheskiye zapominayushchiye ustroystva)

PERIODICAL: Priory i tekhnika eksperimenta, 1958, Nr 5, pp 35-40 (USSR)

ABSTRACT: The characteristics of the input device of a multi-channel pulse height analyzer with a periodic recorder are such that one cannot use the well-known formulae, based on the concept of the resolving time, to obtain counting losses. The confusion which exists in this connection has led the author to try and obtain an analytical expression connecting the integral counting rate recorded ν_p and the mean repetition frequency of the pulses ν . The counting losses Δ are then given by $\Delta = \nu - \nu_p$. General formulae are given which connect the integral counting rate and the mean repetition frequency of the incoming pulses for 4 types of pulse height analyzers, using periodic memory devices. These

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SOV/120-58-5-9/32

Counting Losses in Multi-Channel Pulse Height Analyzers Using
Periodic Memory Devices

four types are due to Sanin (Ref.1), Scarrott (Ref.2), Schlutz et al (Ref.3), and a scheme developed at the Leningrad Electrotechnical Institute respectively. The formulae obtained may be used to determine the counting losses and also as criteria in choosing the frequency of the incoming pulses, depending on the type of the input device used in the particular analyzer. There are 6 figures and 3 references, 1 of which is Soviet and 2 are English.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut (Leningrad Electrotechnical Institute)

SUBMITTED: August 29, 1957.

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SOV/120-58-5-10/32

AUTHORS: Vyazemskiy, V. O., Drapchinskiy, L. V., Pisarevskiy, A. N.,
Trifonov, V. V. and Firsov, Ye. I.

TITLE: A Non-Overloading Amplifier with a Wide-Channel Discriminator
(Neperegruzhayushchiysya usilitel' s shirokokanal'nym
diskriminatorom)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 5, pp 40-44
(USSR)

ABSTRACT: The device described consists of the following principal parts: 1) a non-overloading linear amplifier comprising a pre-amplifier, a phase inverter, pulse-forming networks, an output amplifier and a power amplifier; 2) an integrating wide channel pulse discriminator consisting of a lower and upper gate, a charging diode, a resetting triode, an anti-coincidence circuit, the output univibrators of the integrating and differentiating channels followed by power amplifying stages; 3) supply sources. The non-loading amplifier is based on the circuit described by Fairstein (Ref.3) and its circuit diagram is shown in Fig.1. The pre-amplifier of

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1 Non-Overloading Amplifier with a Wide-Channel Discriminator

this unit is based on a cathode coupled circuit, while the phase inverter consists of one tube with anode and cathode resistances. The pulses are formed after the inverter by means of RC networks or by a short circuited delay line (.5 μ sec duration). The final amplifier consists of 5 tubes; the first 3 form a "triple" and are provided with a negative feedback; the 4th tube operates as a cathode follower. The output signal of the amplifier is applied to an external pulse analyser and to the discriminator of the device. The discrimination level can be varied from 5 to 105 V in steps of 1 V; the voltage divider circuit is shown in Fig.2. The instrument is designed for the operation with a scintillation counter. The maximum gain of the amplifier is 2×10^5 and the effective noise amplitude at the output of the amplifier is less than .04 V. The pulse rise time is .15 μ s and the pulse duration is: a) 2, 5, 10 or 20 μ s if RC networks are used, and b) 1 μ s if a delay line is used. The overloading coefficient of the amplifier is over 100. The amplifier is asymmetrical in that it does not amplify negative pulses. The amplitude characteristic of the

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A Non-Overloading Amplifier with a Wide-Channel Discriminator

amplifier is shown in Fig.3, from which it is seen that its output is linear from 2 to 120 V. The instrument is supplied with +300 V at 130 mA and with -250 V at 20 mA. The paper contains 3 figures and 3 English references.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of the USSR Academy of Sciences)

SUBMITTED: November 18, 1957.

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SOV/120-58-6-15/32

AUTHORS: Vyazemskiy, V. O., Drapchinskiy, L. V., Pisarevskiy, A. N.,
Trifonov, V. V. and Firsov, Ye. I.

TITLE: A Counting Instrument Employing Dekatrons (Pereschetnyy
pribor s ispol'zovaniyem dekatronov)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 6, pp 78-81
(USSR)

ABSTRACT: Since a dekatron is a comparatively new device and since its parameters depend to a large extent on the trigger circuit employed to effect the transfer from one cathode to the next, a detailed investigation of the triggering methods was carried out. The authors tried a number of triggering circuits and found that the most successful one was that employing a double triode in which one of the anodes was provided with a delay capacitance; the circuit is shown in Fig.12. The dekatron employed was of the type 10/SG1S and had 2 systems of guide electrodes. The actual counter (see the diagram of Fig.5) consisted of the following elements: 1) a binary counting decade based on vacuum tubes, 2) 4 counting decades based on dekatrons, 3) a timer, 4) a circuit for controlling the timer and the input gate circuit, 5) a gating circuit, 6) an intensity meter, 7) a quartz crystal calibrator, 8) a power supply source, and 9) a mechanical register.

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A Counting Instrument Employing Dekatrons

The operation of the equipment is as follows. An input pulse is applied to the gating circuit which is in the form of a univibrator; the circuit can be blocked by the bi-stable device which also controls the timer. The pulses from the anode of the gating univibrator are applied to the binary decade. The output from the decade is used to trigger the first dekatron, which in turn drives the following dekatrons. The counting can be stopped automatically after a pre-set time interval which is determined by the timer. The basic time intervals are 3, 6 and 15 sec; by employing 2 dekatrons it is also possible to obtain counting intervals of 60, 150, 300, 600 and 1500 sec. The average counting rate is recorded by the intensity meter which is capable of measuring the rates ranging from 200 to 5×10^4 pulses per minute. The instrument can be checked by employing the quartz

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A Counting Instrument Employing Dekatrons

crystal oscillator which operates at 75 kc/s. The device has a resolving time of 12 μ s. The authors express their gratitude to Yu. A. Nemilov for making this work possible and for his interest in it. The paper contains 8 figures and 4 references; 2 of the references are English and 2 are Soviet.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of the Soviet Academy of Sciences)

SUBMITTED: November 18, 1957.

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SOV/120-59-2-33/50

AUTHORS: Vyazemskiy, V.O., Pisarevskiy, A.N., Selyaninov, Yu.Ye.

TITLE: Linear Pulse Gate Circuit (Skhema propoportsional'nogo propuskaniya impul'sov)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2, p 117 (USSR)

ABSTRACT: The arrangement described in Ref 1 uses special beam-deflection valves. The present circuit, Fig 1, contains only standard pentodes 6P 15 P. Until the arrival of the gate pulse at the grid of \mathcal{L}_2 the anode current of \mathcal{L}_1 flows through \mathcal{L}_2 , \mathcal{L}_4 and R_a . If a signal should arrive at the grid of \mathcal{L}_1 the increase in anode current does not evoke a change in output voltage since the anode of \mathcal{L}_2 is effectively earthed via the capacitance of $0.25 \mu\text{f}$. There is no direct transmission through the feedback path R_1, R_2, C_1 since the output resistance of the cathode follower $\mathcal{L}_5, \mathcal{L}_6$ is small. When a gate pulse is applied the anode current of \mathcal{L}_1 switches from \mathcal{L}_2 to \mathcal{L}_3 . If at the same time a signal pulse arrives then \mathcal{L}_1 works as an anode follower. The circuit passes

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Linear Pulse Gate Circuit

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linearly single-polarity pulses of either sign,
amplitudes up to 100 ohms and rise-times better than
Card 2/2 0.1 μ s.
There is 1 figure and 1 English reference.

ASSOCIATION: Radiyevyy institut AN SSSR
(Radium Institute of the Ac. Sc. USSR)

SUBMITTED: June 23, 1958

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S/112/60/000/008/002/012

24.6810

Translation from: Referativnyy zhurnal. Elektrotehnika, 1960, No. 8, p. 249,
4.7039

AUTHORS: Vyazemskiy, V.O., Kazarinov, Yu.M., Trifonov, V.V.

TITLE: Amplitude Analyzer of Nuclear Radiation Spectra

PERIODICAL: Izv. Leningr. elektrotekh. in-ta, 1959, No. 38, pp. 237-248

TEXT: The authors investigate the limitations and advantages of using various memory devices in amplitude analyzers. A description is given of the "AMA-3c" (AMA-3s) type automated multi-channel amplitude analyzer with an electrostatic storage tube as memory device. This model was exhibited at the Geneva Exhibition in 1958. It possesses the following technical data: number of channels - 128; capacity of each channel - 2^{16} , resolving time $0.5 + 22 \mu\text{sec}$ ($n = \text{channel number}$). The results are read on the monitor screen in the form of binary numbers or as histogram. The analyzer can operate with external control pulses (under coincidence or anticoincidence conditions). The number of tubes is 130, power consumption is 850 w.

A.A.N.

Translator's note: This is the full translation of the original Russian abstract.

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VYAZEMSKIY, V. O., Cand Phys-Math Sci — (diss) "Rapid- Acting
Multi-Channel Amplitude Analyzers," Leningrad, 1960, 27 pp, 200 copies
(Radium Institute im V. G. Khlopin, AS USSR) (KL, 46/60, 122)

KAYUMOV, Anas Mardanovich; VYAZEMSKIY, V.O., red.

[Logic features of standard ferrite-transistor cells]
logicheskie vozmozhnosti tipovoi ferrit-tranzistornoj
iacheiki. Leningrad, 1964. 2i p. (Leningradskii dom
nauchno-tekhnicheskoi propagandy. Obmen peredovym o, y-
tom. Seria: Pribory i elementy avtomatiki, no.5)
(MIRA 17:7)

ACCESSION NR: AR4014747

S/0058/63/000/012/A021/A021

SOURCE: RZh. Fizika, Abs. 12A204

AUTHORS: Vyazemskiy, V. O.; Pegoysov, A. N.; Trifonov, V. V.

TITLE: AMA-5 semiconductor small-size multichannel pulse height analyzer

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektronike. T. 2, Ch. 2, Gosatomizdat, 1963, 144-162

TOPIC TAGS: analyzer, pulse height analyzer, miniature analyzer, dynamic memory, magnetostriction delay line, nuclear instrumentation

TRANSLATION: A description of the multichannel pulse-height semiconductor AMA-5 analyzer is presented. The analyzer is intended for use under difficult plant and field conditions. It employs a miniature part and printed wiring. The total number of elements has been

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ACCESSION NR: AR4014747

reduced in AMA-5 to ~1200. Such a reduction has been made possible by maximum utilization of each element. The analyzer employs a dynamic memory with a magnetostriction delay line. The memory (2048 μ sec) is broken up into 128 16-digit memory cells (channels) without pauses between them. The information readout is by a read-out block in three forms: a table of binary numbers, a linear-scale histogram on a cathode-ray tube screen, and a histogram on a paper chart. The maximum counting rate of the analyzer is 3000 pulses per second. L. S.

DATE ACQ: 24Jan64

SUB CODE: PH, SD

ENCL: 00

Card 2/2

VYAZEMSKIY, V.O.; PISAREVSKIY, A.N.; SELYANINOV, Yu.Ye.

Single-channel differential discriminator for coincidence
circuits with scintillation counters. Pr1b. i tekhn. eksp.
6 no.4:64-66 J1-Ag '61. (MIRA 14:9)

1. Radiyevyy institut AN SSSR.
(Electronic circuits)
(Electronic instruments)

VYAZEMSKIY, V.O.; GRIDNEV, K.A.; PISAREVSKIY, A.N.

Separation of particles according to the relative intensity of
the slow de-excitation component in stilbene. Prib. i tekhn.
eksp. 6 no.4:149-150 J1-Ag '61. (MIRA 14:9)

1. Radiyevyy institut AN SSSR.
(Pulse techniques (Electronics))

VYAZEMSKIY, V.O.; PISAREVSKIY, A.N.; TETERIN, Ye.D.

One possibility of increasing the resolving power of fast coincidence
circuits. Trudy Radiov. inst. AN SSSR 9:150-151 '59. (MIRA 14:6)
(Photoelectric multipliers)

VYAZEMSKIY, V.O.; PISAREVSKIY, A.N.; TETERIN, Ye.D.

Antisaturation amplifier for amplitude investigations. Trudy Radiov.
inst.AN SSSR 9:155-163 '59. (MIRA 14:6)
(Amplifiers (Electronics))

29599

S/120/61/000/004/008/034
E202/E592

21.6000

AUTHORS: Vyazemskiy, V.O., Pisarevskiy, A.N. and Selyaninov, Yu.Ye.

TITLE: Single channel differential discriminator for the coincidence circuits of the scintillation counters

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1961, 64-66

TEXT: The authors have designed and tested a single channel differential discriminator for work with fast coincidences circuits employing slow scintillators. In order to eliminate the effect of the build-up time of the investigated pulse on the resolution time of the coincidence circuit, a saturated amplifier has been used as described earlier by G. P. Mel'nikov (Ref.1: PTE, 1959, No.5, 61). In this arrangement the investigated impulse is fed simultaneously to the input of the expander and to the saturated amplifier. The latter is stable under overload conditions. The signal emerging from the saturated amplifier triggers the Schmidt trigger circuit which in turn sends an impulse via the cathode follower into the delay and pulse shaping lines, where it is shaped into a short pulse corresponding to the leading edge of the saturated pulse. The

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Single channel differential ...

S/120/61/000/004/008/034
E202/E592

length of the delay is chosen to match the scintillation time of the phosphors. A detailed circuit is given in Fig.1; which shows the main circuit of the discriminator. (Correction: change the anode loads of the R.H.S. of valves 6 and 7 to 2.2 kohms, and the grid resistance of the L.H.S. to 100 kohms) (8X00 - input, 8b1X00 - output, 8HEWHEE 0MEWEHVE - external bias, 11WM - 11 off [Abstractor's note: meaning 11 resistors in series.] With the working parameters given, the threshold of the discriminator may vary from 5 - 105 V; the width of the window is adjustable in 1 V steps from 1 - 10 V, and then to 14, 16, and 20 V. The threshold value and the window width were found to remain stable to within 1%, after 8 - 10 hours of work. The dead time of the instrument (for a given case) was approximately 3µsec. The duration of the output pulses measured at half peak, were estimated as 0.1 µsec, and their amplitude was 5 V (for both polarities). When the amplitude of the investigated pulses increased from 5 to 125 V, the time spread of the centroids of the output pulses was less than 5×10^{-8} sec. There are 1 figure and 5 references: 2 Soviet and 3 non-Soviet. The English-language references read as follows: Ref.3: W. Gruhle,

Card 2/3

Single channel differential ... ²⁹⁵⁹⁹
S/120/61/000/004/008/034
E202/E592

Nucl. Instrum., 1959, 4, 112; Ref. 4: R. I. A. Levesque,
W.F. Hornyak, Proc. of the Internat. Symp. on Nucl. Electronics,
Paris, 1958, 287.

ASSOCIATION: Radiyevyy institut AN SSSR
(Radium Institute AS USSR)

SUBMITTED: July 15, 1960

Card 3/ 3

VYAZEMSKIY, V.O.; LOMONOSOV, I.I.; PISAREVSKIY, A.N.; PROTOPOPOV, Kh.V.;
RUZIN, V.A.; TETERIN, Ye.D., Primal uchastiye KLYUCHNIKOV, V.H.;
RYBAKOV, B.V., red.; SMOLYAN, G.L., red.; POPOVA, S.M., tekhn.
red.

[Scintillation method in radiometry] Stsintillatsionnyi metod v
radiometrii. By V.O.Viazemskii i dr. Moskva, Gos. izd-vo lit-ry v
oblasti atomnoi nauki i tekhniki, 1961. 429 p. (MIRA 14:9)
(Scintillation counters)

VYAZEMTSEVA, Valentina Nikitichna; KONEVA, Eleonora Dmitriyovna;
ISAYEV, V.A., red.

[Animal husbandry in foreign countries] Zhivotnovodstvo
zarubezhnykh stran; sbornik statei. Moskva, Znanie,
1965. 46 p. (Novoe v zhizni, nauke, tekhnike. V Seria:
Sel'skoe khoziaistvo, no.15) (MIRA 18:7)

VYAZENKIN, G.N., inzh.; KUCHARNYUK, V.A., inzh.

Automatic noncontact pumping system. Mekh. i avtom. proizv.
18 no.1:23-25 Ja '64. (MIRA 17:8)

VYAZENKIN, G.N.

Method for calculating the efficiency of flowmeters with instantaneous cutting off of equal fluid volumes in a measuring chamber and the subsequent displacement of this fluid into a manifold. Nefteprom. delo no.10:35-38 '63.

(MIRA 17:6)

1. Oktyabr'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta kompleksnoy avtomatizatsii neftyanoy i gazovoy promyshlennosti.

VYAZENKIN, G.N.

Increasing the quality of oil-well output measurement. Nefteprom.
delo no.8:17-21 '63. (MIRA 17:4)

1. Oktyabr'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo i
proyektno-konstruktorskogo instituta kompleksnoy avtomatizatsii
neftyanoy i gazovoy promyshlennosti.

VYAZENKIN, G.N.; KIN, K.F.

Transient processes in a gauging device for the cyclic measurement of oil well output. Nefteprom.delo no.11:29-32 '63. (MIRA 17:3)

1. Oktyabr'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta kompleksnoy avtomatizatsii neftyanoy i gazovoy promyshlennosti.

VYAZGICHEV, B.M., mayor, propagandist

New methods of political studies. Komm.Vocruzh.Sil 3 no.20:63-68
O '62. (MIRA 15:10)

(Russia--Army--Political activity)
(Communist education)

VYAZHEVICH, V.K.

Epidemiology of anthrax in persons in Novosibirsk Province during
the decade 1949-1958. Zhur. mikrobiol. epid. i immun. 31 no.2:100-101
D '60. (MIRA 14:6)

1. Iz Novosibirskiy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(NOVOSIBIRSK PROVINCE--ANTHRAX)

VYAZHEVICH, V.K.

Some peculiarities of human and bovine smallpox. Zhur.mikrobiol.
epid. i immunit. 32 no.4:149 Ap '61. (MIRA 14:6)

1. Iz Novosibirskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(VACCINIA) (NOVOSIBIRSK PROVINCE—SMALLPOX)

VYAZHEVICH, V.K.

USSR/Virology. Human and Animal Viruses.

E-3

Abs Jour: Ref. Zhur.-Biol., No 7, 1957, 28749.

Author : ~~Vyazhevich, V.K.~~

Inst : Not given.

Title : A Case of Birth of a Healthy Child to a Mother During
the Incubation Period of Rabies.

Orig Pub: Sluchay rozhdeniya zdorovogo rebenka materyu, nakhodiv-
sheysya v inkubatsionnom periode zabolevaniya beshenstvom.
Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No 7,
105-106.

Abstract: No abstract.

9

Card : 1/1

VYAZHEVICH, Vladimir Konstantinovich; NEYMAN, M.I., red.

[Tick-borne encephalitis] Kleshchevoi entsefalit. Moskva, Meditsina, 1964. 1 p. (MIRA 18:3)

LUKINA, K.V., VYAZHEVICH, V.K.

Organizing polio vaccination in rural areas. Zdrav.Ros.Fed. 2
no.10:28-32 0'58 (MIRA 11:10)

1. Iz Novosibirskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(POLIOMYELITIS)
(NOVOSIBIRSK PROVINCE--PUBLIC HEALTH, RURAL)

VYAZHEVICH, V.K.

Delivery of a normal infant from a mother during the rabies incubation period. Zhur.mikrobiol.epid. i immun. 28 no.7:105-106 J1 '57.
(MIRA 10:10)

1. Iz Novosibirskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

(RABIES, in pregnancy,
delivery of normal inf. from mother in incubation period
(Rus))

(PREGNANCY, complications,
rabies, incubation period, delivery of normal inf.
(Rus))

VYAZHLINSKIY, P. A.

VYAZHLINSKIY, P. A. "The rotating pasture system is the most important factor in the struggle with helminthosis of sheep," Karakulevodstvo i zverovodstvo, 1949, No 3, p. 72

SO: U- 5240, 17Dec53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

9 (7)

AUTHOR:

Vorob'yev, Yu. V., Vyazigin, A. A. SOV/20-126-6-28/67

TITLE:

On the Chromatic Aberration Field in the Electron Microscope
(O polevykh khromaticheskikh aberratsiyakh v elektronnom
mikroskope)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1248 - 1249
(USSR)

ABSTRACT:

Earlier papers (Refs 1 and 2) had shown that the chromatic aberration field may be corrected by an appropriate choice of current strength and voltage in the electron microscope lenses. The present paper deals with the investigation of the chromatic aberration field of an electron microscope, in which the axes of the lenses are individually displaced with respect to one another. Formulas (1) give the displacement of the image of any arbitrary object point by a change in the accelerating voltage by ΔU . Formula (2) serves for the determination of the section of the total chromatic aberration field in the axial optical system, and formula (3) the same for nonaxial optical systems. In the case of electron microscopes with high resolving power, however, chromatic aberration is very slight, and therefore, a correction is not necessary. It is further

Card 1/2

On the Chromatic Aberration Field in the Electron Microscope SOV/20-126-6-28/67

stated that the chromatic aberration may, in consequence of bad collimation, be decreased only by a better collimation and a steadier accelerating voltage. There are 2 references.

PRESENTED: March 23, 1959, by A. A. Lebedev, Academician

SUBMITTED: March 16, 1959

Card 2/2

VIAZHEVICH, V.K., vrach-epidemiolog (Novosibirsk)

Some mistakes in antiepidemic tactics in connection with the
rise of sporadic infectious diseases. Med.sestra 19 no.4:35-
37 Ap '60. (MIRA 13:6)

(COMMUNICABLE DISEASES--PREVENTION)

VYAZHEVICH, V.K.

Case of rabies in man contracted from a wild fox. Zhur.mikrobiol.
epid.i immun. 30 no.10:146-147 0 '59. (MIRA 13:2)

1. Iz Novosibirskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(RABIES transm.)

VYAZHEVICH, V.K. (Novosibirsk)

Case of complication following smallpox vaccination. Fel'd.
i akush. 25 no. 5:44-45 My '60. (MIRA 13:7)
(SMALLPOX--PREVENTION)

VYAZHLINSKIY, P. A.

Ch, Veter Div, Main Admin of Karakul Sheep-Raising Sovkhozes, Min of State Farms USSR
(Karakulevodstvo i Zverovodstvo, No 1, 1950)

SO: Summary #665, 31 Oct 55

VYAZIGIN, A.A.; VOROB'YEV, Yu.V.

Phase contrast and maximum resolving power of an electron microscope. Izv. AN SSSR. Ser. fiz. 27 no.9:1122-1126 S '63.
(MIRA 16:9)

(Electron microscope)

L 36549-66 EWT(1) IJP(c)

ACC NR: AP6015752

(A, N)

SOURCE CODE: UR/0048/66/030/005/0730/0734

AUTHOR: Vyazigin, A. A.; Vorob'yev, Yu. V.

ORG: none

TITLE: Influence of aberrations on image quality under conditions for realizing the ultimate resolution of an electron microscope /Report, 15th All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 730-734

TOPIC TAGS: electron optics, electron microscope, spherical aberration, astigmatism, chromatic aberration, image contrast, optic resolution

ABSTRACT: It has previously been shown by the authors³ (Izv. AN SSSR. Ser. fiz. 27, 1122 (1063)) that the ultimate resolution of an electron microscope can be improved only by reducing the spherical error or increasing the accelerating potential. In the present paper the authors use the methods and results of their earlier paper to calculate the effects of axial astigmatism, defocusing, and chromatic error on the image contrast and resolution of an electron microscope. The results are presented graphically and in tabular form and are discussed. It is found that image contrast deteriorates more rapidly than resolving power with increasing axial astigmatism or defocusing. If one decreases the spherical aberration, the chromatic aberration de-

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ACC NR: AP6015752

creases also. It is concluded that it is not necessary to improve the stability of the power supplied of modern first class electron microscopes in order to realize the improved resolution that might be made possible by a decrease of their spherical aberrations. Orig. art. has: 13 formulas, 4 figures, and 3 tables.

SUB CODE: 20/

SUM DATE: 00/

ORIG REF: 001/

OTH REF: 001

Card 2/2/11P

ACC NR: AP7002414

SOURCE CODE: UR/0051/66/021/006/0666/0672

AUTHOR: Vyazigin, A. A.

ORG: none

TITLE: Scattering of electrons on heavy atoms

SOURCE: Optika i spektroskopiya, v. 21, no. 6, 1966, 666-672

TOPIC TAGS: electron scattering, electron microscopy, atomic electron scattering, atomic radius computation, spectroscopy, electron optics, self consistent field method, Thomas Fermi model, Slater model

ABSTRACT: The scattering of electrons at small angles plays an important part in the formation of images in electron microscopy. A method is proposed for computing the mean square of the radius of a heavy atom based on a self-consistent field, which makes it possible to determine electron scattering at small angles. A comparison is made between values obtained for the mean square of atomic radii using the proposed method, and those obtained by the Thomas-Fermi and Slater models. Orig. art. has: 10 formulas and 2 tables. [Translation of author's abstract] SUB CODE: 20/SUBM DATE: 17 Jun 65/ORIG REF: 002/ [SP]

Card 1/1

OTH REF: 010/

UDC: 539.183.5.01

VYAZIGIN, D.V.

Do wheel assembly repair in one or two sheds on the road, Elek. i
tepl. tiaga no. 2:26-27 Ag '57. (ILRA 10:8)

1. Zamestitel' nachal'nika lokomotivnogo otdela Nadezhdinskogo
otdeleniya, Sverdlovskaya doroga,
(Car wheels)

VYAZIGIN, S. A.

32402, Vyazigin, S. A. Materialy po istoricheskoy geografii Turkmenistana.
Sobshch. 2. Izvestiya Turkm. Filiala Akad. nauk SSSR, 1949, No. 1, s.
17-21. ---- Bibliogr: s. 20-21.

SO: Letopis' Zhurnal'nykh Statey, Vol. 44

VYAZIGIN, S. A.

Coins, Byzantine

Byzantine solidus of the 5th century from the site of Novaya Nisa. Izv. Turk. fil. AN SSSR No. 3, 1951.

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

KARAKHODZHAYEV, B., dotsent; VYAZIKOV, F.S., assistant

Study of recurrences of tuberculous meningitis. Med. zhur. Uzb.
no.12:29-31 1 '60. (MIRA 14:1)

1. Iz kliniki detskikh bolezney (zav. - dotsent M.A.Mirzamukhamedov)
Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni
I.P.Pavlova.

(MENINGES--TUBERCULOSIS)

KARAKHODZHAYEV, B., dotsent; VYAZIKOV, F.S., assistant

Course of dysentery in children with otitis. Nauch. trudy SanM
21:33-35 '62. (MIRA 17:5)

1. Iz kafedry detskikh bolezney Samarkandakogo meditsinskogo
instituta imeni Pavlova.

VYAZIKOV, F.S., assistant

Comparative evaluation of different methods of treating rheumatic fever in children. Nauch trudy SamMI 23:85-88 '63
(MIRA 17:3)

1. Iz kafedry detskikh bolezney Samarkandskogo meditsinskogo instituta.

KARAKHODZHAYEV, B., dotsent; VYAZIKOV, F.S., assistant; SALIKHBAYEVA, G.,
klinicheskiy ordinator

Course of dysentery in children affected with rickets. Med. zhur.
Uzb. no.2:67 F '60. (MIRA 15:2)
(DYSENTERY) (RICKETS)

KARAKHODZHAYEV, B., dotsent; VYAZIKOV, F.S., assistant; SABIROVA, R.S.,
ord.; SALAKHUTDINOVA, Kh.S.

Clinical statistical data on rheumatic fever in children during
the period 1955-1960. Med. zhur. Uzb. no.1:31-34 Ja '62.

(MIRA 15:3)

1. Iz kafedry detskikh bolezney Samarkandskogo gosudarstvennogo
meditsinskogo instituta imeni I.P. Pavlova.
(RHEUMATIC FEVER)

VYAZININ, Ivan Nikolayevich

[Southern Il'men' region] Iuzhnoe Priil'men'e. Novgorod,
Novgorodskaja pravda, 1963. 205 p. (MIRA 18:1)

VYAZINKIN, V. F.

USSR/Miscellaneous - Switchboards

Card 1/1 Pub. 133 - 7/23

Authors : Vyazinkin, V. F., Engineer of Rostov/Don Central Telegraph Station

Title : A long-distance subscriber-line telegraph switchboard

Periodical : Vest. svyazi 8, 11-12, Aug 1954

Abstract : A Soviet-manufactured toll-line telegraph switchboard, for servicing ten or more subscribers, is described, and detailed instructions for the switchboard operation are given. The position of relays and switches for various conditions of operation are illustrated. Diagram.

Institution: ...

Submitted : ...

VYAZINKIN, V.P.

Commutator of a subscribers' telegraph for switching-in lines
of remote subscribers. Vest.sviazi 14 no.8:11-12 Ag '54.
(MLRA 7:9)

1. Inzhener Rostovskogo-na-Donu tsentral'nogo telegrafa.
(Telegraph--Apparatus and supplies)

TITOVA, R.; YEROKHINA, N.; VYAZKINA, R. (g. Yaroslavl')

We invite you to go with us! Babotnitsa 36 no. 6:12 Ja '58.
(MIRA 11:8)

(Walking)

VINOGRADSKIY, O.V., kand. med. nauk; VYAZITSKIY, P.O.

Functional state of external respiration in various degrees of mitral stenosis. Kardiologiya 5 no.2:15-17 '63. (MIRA 17:2)

1. Iz kafedry fakul'tetskoy terapii (nachal'nik - prof. V.A. Beyer) i kafedry khirurgii dlya usovershenstvovaniya vrachey (nachal'nik deystvitel'nyy chlen AMN SSSR prof. P.A. Kupriyanov) Voenno-meditsinskoy ordena Lenina akademii imeni Kirova.

VYAZITSKIY, P.O. (Leningrad K-9, Botkinskaya ul., 15, kv.141)

Determination of the degree of manifestation of the "second barrier"
in patients with mitral stenosis. Vest. khir. no.7:40-44 J1 '64.
MIRA 18:4)

1. Iz fakul'tetskoy terapevticheskoy kliniki (nachal'nik - prof.
P.A.Kupriyanov [deceased]) Voenno-meditsinskoy ordena Lenina
akademii imeni Kirova.

VINNIKOV, O.V., major medical service, Karlovskiy, Acad. Sci. USSR, VIENNA,
USSR, major medical service

Use of the DeLan apparatus for the examination of the dynamics of
gas metabolism in healthy persons. Voen.-med. zhurn. no. 3 (1965) 104.
(RUS 1215)

GEYRO, S.B., dozent; VYAZITSKIY, P.O.; YERYKALOVA, O.K.; VYSKUBENKO, S.I.

Direct transfusion of the blood in some hematologic diseases and in
the syndrome of acute fibrinolysis. Voen.-med.zhur. no.8:27-29 '64.

VINOGRADARSKIY, O.V., kand.med.nauk; IZBINSKIY, A.L., kand.med.nauk;
VYAZITSKIY, P.O., kand.med.nauk

Significance of the study of gas metabolism in combination
with controlled physical stress in the evaluation of immediate
and late results of mitral commissurotomy. Sov.med. 28 no.11:27-
33 N '65. (MIRA 18:12)

1. Kafedra fakul'tetskoy terapii (nachal'nik - prof. V.A.
Beyyer) i kafedra khirurgii dlya usovershenstvovaniya vrachey
No.1 (nachal'nik - prof. A.P.Kolesov) Voenno-meditsinskoy
ordena Lenina akademii imeni S.M.Kirova, Leningrad.

VYAZITSKIY, P.O. (Leningrad, K-9, Eotkinskaya ul.d. 15, kv.141)

Importance of the indices of the function of external respiration
in the diagnosis of mitral stenosis. Grud. khir. 6 no.4:30-33 J1-1f
'65. (MIRA 18:4)

1. Kafedra fakul'tetskoy terapii (nachal'nik - prof. V.A.Beyyer)
i kafedra khirurgii dlya usovershenstvovaniya vrachey (nachal'nik -
deystvitel'nyy chlen AMN SSSR prof. P.A.Kupriyanov [deceased])
Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

POPOV, S.Ye.; VYAZITSKIY, P.O.; KUDRYAVTSEV, G.V.; VINOGRADSKIY, O.V.
DYGIN, V.P.

Complications in ACTH and corticosteroid therapy. Sovet. med.
27 no.9:21-25 S'63 (MIRA 17:2)

1. Iz kliniki fakul'tetskoy terapii (nachal'nik -- prof. V.A.
Boyyer) Voenno-meditsinskoy ordena Lenina akademii imeni
Kirova.

VYAZKOV, N., kandidat tekhnicheskikh nauk.

Effect of building construction on heating expenditures. Zhil.-
kom.khoz. 6 no.5:15-16 '56. (MLRA 9:11)
(Heating--Costs) (Municipal building) (Apartment houses)

VYAZKOVA, S.F., kand.veterinarnykh nauk

Disinfection shower unit (DDU-V) for mechanized treatment of animals,
Veterinariia 38 no.6:79-80 Je '61. (MIRA 16(6))

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy
sanitarii.

(Disinfection and disinfectants) (Veterinary hygiene)

LYASHENKO, A.F.; MUZYCHENKO, V.P.; VYAZKOVA, Ye.A.

Determination of chlorides in petroleum. Khim.i tekhn.topl.i
masel 7 no.2:65-67 F '62 F '62. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Petroleum--Analysis) (Chlorides)

