POLAND / Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60345.

Abstract: the cylindrical Cu anode was studied, and the equivalent electrical conductivity ( $\lambda$ ) and the viscosity of the solution ( $\eta$ ) were determined as well. It is shown that the EP takes place at E from +0.82 to +1.6 v (stand. H electrode). i(lim) increases linearly with m at the rise of m from 60 to 670 revolutions per min. At m = 400 rev. per min., the experimental data are expressed by by the equation  $1/i(\lim) = A + Bc$ . It was found that  $\eta$  and  $1/\lambda$  depend linearly on c, and that  $i(\lim)\eta = const$ . and  $i(\lim)\lambda = const$ ., if c was changing. It is assumed that the limiting stage of the EP is the diffusion of the phosphoric acid radical to the anode surface, and that the conversion of Cu into Cu<sup>2+</sup> proceeds through an intermediate formation of an oxide phase.

Card 2/2

40

ZEMBURA, Z.

POLAND / Physical Chemistry. Electrochemistry.

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 63894

: III. Kamecki Julian, Zembura Zdzislau; IV.

Author Zembura Zdzislaw

: Not given Inst

: Anode Behavior of Metals. III. Iron in Solutions of Phosphoric Acid. IV. Copper in Title

Solutions of Sodium Hydroxide.

Orig Pub: Roczn. chem., 1957, 31, No 1, 185-195; No 2,

627-635

Abstract: III. The anode passivity of Fe and steel in 1, 3, 20 and 40 n.H3PO4, as well as in 20 n.H3PO4 containing 1 and 2 mole/L. Fe at 200,

B

Card 1/4

POLAND / Physical Chemistry. Electrochemistry.

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 63894

Abstract: was investigated. In the case of highly diluted solutions of H<sub>3</sub>PO<sub>H</sub>, hysteresis of the anode polarized curves (PC) is observed; in concentrated solutions of H<sub>3</sub>PO<sub>H</sub>, hysteresis is absent, and in a wide interval of potentials of the anode (V) the density of the current I does not vary. An increase in the quantity of Fe dissolved in the electrolyte does not change the form of PC. In 20 and 40 n· of H<sub>3</sub>PO<sub>H</sub>, the electropolishing of Fe and steel is possible in conditions which conform to the rising segment of PC in the area of O<sub>2</sub> isolation. It is proposed that the passivity is specified by reactions of the type M+2OH- → —)MO+H<sub>2</sub>O+2e. The differences of the form of PC in H<sub>3</sub>PO<sub>H</sub> solutions of various concentrations is explained by the different rate of dissolution

Card 2/4

c

POLAND / Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 63894

Abstract: of the layer of oxide in the acid. The results obtained indicate the possibility of protecting Fe and steel from corrosion during work in H<sub>3</sub>PO<sub>4</sub>

IV. An attempt is made to explain the mechanism of reaction which leads to Cu passivity in NaOH solutions (1.00; 4.52 and 12.88 n.), on the basis of the results of measuring anode PCs during electrolysis with fixed pressure, as well as VA curves dependent on the t duration of electrolysis with I=const. The curves (I, VA) have a similar form for all NaOH solutions. The

Card 3/4

POLAND / Physical Chemistry. Electrochemistry.

В

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 63894

Abstract: curves can be separated into 4 sections (I, V<sub>A</sub>) and (V<sub>A</sub>,t); the first two represent the anode in an active condition, the third the passivity is assumed that the passivity is caused not by see RZhKhim, 1958, 35551.

Card 4/4

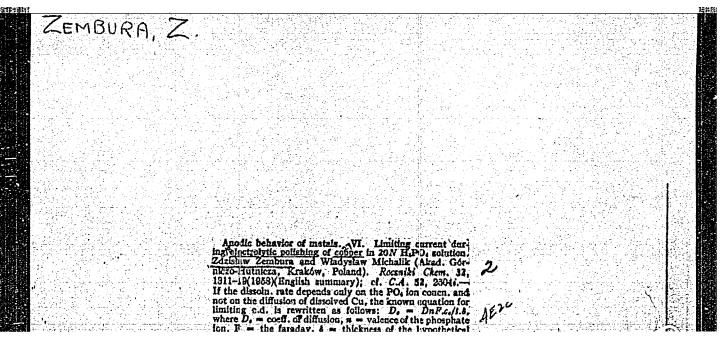
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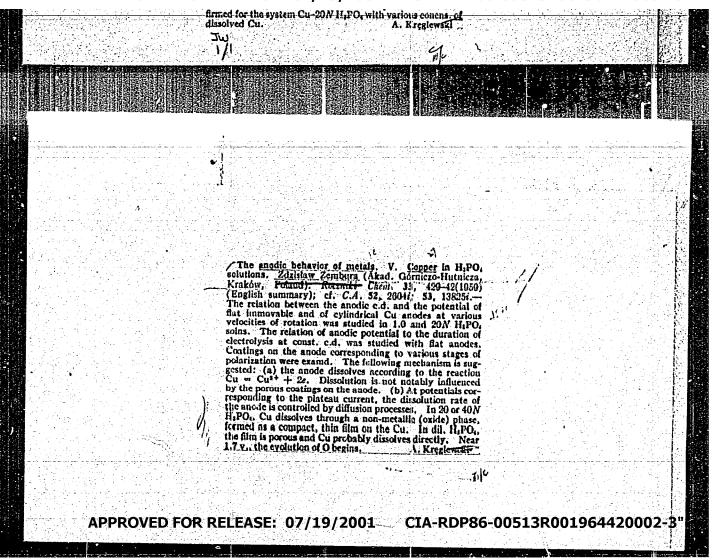
ZEMBURA, Z.

Polarization of copper anodes in some electrolyte solutions; an abridged thesis. p. 479

WIADOMOSCI CHEMICZNE. (Polskie Towarzystwo Chemiczne) Wroclaw. Vol. 12, no. 8, Aug. 1958 Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959 Uncl.





POLAND / Chemical Technology, Chemical Products and Their Application. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 42713.

Author : Sedzimir J., Zembura Z.

: Not given. Inst

: Corrosion of Chrome Steel. Title

Orig Pub: Hutnik (Polska), 1958, 25, No 7-8, 303-307.

Abstract: A case of corrosion (C) is described involving storage of the stainless steel parts of a steam generator made of ST. 2H13 (0.16-0.24% C, 12-16% Cr) wrapped with well oiled and graphited asbestos tape. Before the storage the involved parts were subjected to a hydraulic (or steam-water) test at a temperature of 360°. These tests were conducted in a chamber for 72 hours, at 80°, and at high humidity conditions. The test involved determin-

Card 1/3

H-5

POLAND / Chemical Technology | Chemical Products and H. Their Application. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 42713.

Abstract: ation of the potential difference of the galvanic cell created by steel and graphite while employing 3% HCl solution. Curves of the cathode polarization of steel in 3% HCl solution were then degrease decomposition products on C, water was analyzed after the treatment of greased tape in an grease decomposition do not contain corrosive compounds (such as chlorides and sulfates), hence, basic reason of the existence of C is the contact the increased rate of steel C is proportional to

Card 2/3

POLAND / Chemical Technology. Chemical Products and Their Application. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 42713.

Abstract: this contact (increased contact surface of cathodegraphite causes greater C). -- F. Smolyanskaya.

Card 3/3

H-6

ZEMBURA, Z.; KAMECKI, J.

"Anodic Behavior of Copper in Phosphoric Acid Sclutions", P. 31, (POLSKA AKADEMIA NAUK, Vol. 2, No. 1, 1954, Varsovie, Poland)

SO: Monthly List of Fast European Accessions (FEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

### ZEMBURA, Z.; KAMECKI, J.

"Current Potentials and Densities on Zinc Anodes in 7 N KOH in Dependence Upon Time", P. 175, (POLSKA AKADEMIA NAUK, Vol. 2, No. 4, 1954, Varsovie, Poland)

SO: Monthly List of Fast European Accessions (FEAL), LC, Vol. 4, Mc. 3, March 1955, Uncl.

ZEMBURA, Z.; KAMECKI, J.

"The Amodic Polishing of Zinc in KOH Solutions", P. 181, (POLSKA AKADEMIA NAUK, Vol. 2, No. 4, 1954, Varsovie, Poland)

SO: Monthly List of East European Accessions (HEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

ZEMBURA, Z.; KUBAS, Z.; KAMECKI, J.

The anodic behavior of zinc in phosphoric acid solutions. In English. p. 281 (FRAGMENTA FLORISTICA ET GEOBOTANICA, Vol. 2, No. 6, 1954, Krakow, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5 May 1955, Uncl.

BAKOWA, S.; BIELANSKA, A.; ZEMBUROWA, K.

Bacterial flora in diarrheas in infants. Polski tygod. lek. 11 nc. 42:1793-1795 15 Oct 56.

1. Z Zakładu Mikrobiologii Lekarskiej A.M. w Krakowie; kierownik: prof. dr. Z. Przybyłkiewicz i z Kliniki Chorob Dzieci A.M. w Krakowie; kierownik: prof. dr. W. Bujak, Krakow, ul. Czysta 18. Zakład Mikrobiologii Lek. A.M.

(DIARRHEA, in infant and child, fecal bacteriol. in (Pol))

(FECES, microbiology, in diarrhea in inf. (Pol))

### ZEMBURA, Zdzislaw

The anodic behavior of metals. VIII. Copper in sulfuricacid solutions. Rocz chemii 33 no.4/5:1049-1059 \*59. (EEAI 9:9)

1. Katedra Chemii Fizycznej i Elektrochemii Akademii Gorniczo-Hutniczej, Krakow.

(Copper) (Sulfuric acid) (Solutions) (Polarization) (Anodes)

### ZEMBURA, Z.

The anodic behavior of metals. VII. Anodic formation of coatings on Cu in Na 250 tions. p. 157.

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, No. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959. Uncl.

## ZEMBURA, Z.

刘邦省村

The anodic behavior of metals, V. Copper in orthophosphoric acid solutions. p. 429.

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, no. 2, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 9, September 1959.

CLAND

DRIBERA, Alicja; Knystvas ZEMEUROVA and Jerzy PEORGIADES; apartment of Nedicel Microbiology (Zakled Microbiologii skarekiej), AM /Akademia Medyczna -- Medicel Bohool/, Kra-zw, Director: Prof Dr Z. FRZYBYLKIEWIOZ.

The Istunoelectrophoretic Picture of the Blood Serum Fro-

ration Przeciad Lebanski, Vol 18, No 12, 62, pp 463-466.

instruct: Authors English superry modified Ironnoslaccophoratic analysis was carried out on 64 serums taken
the street and 32nd day after the appearance of
uncles in patients with infectious hapatitis. The impunoectrophoratic diagrams of the serums tested obtained with
impunising rabbit serums and 1 impunising horse serum all
lowed hypoalbuminemia, hyper-beta, hyper-beta, and hypermma-globulinemia.

The changed immunoelectrophoretic picture of the betaobulin fraction of the serume tested in of special interest

F-2

ZEMBUROWA,

Poland Microbiology. Antibiosis and Symbiosis. Antibiotics.

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35576

Author Porebska, A.; Zemburowa, K.

The Sensitivity of Diptheria Bacilli to Some Title

Antibiotics in vitro

Med. doswiad. i mikrobiol. 1956, 8, No. 3, Orig Pub:

351-355

Abstract: Revealed was the bacterio-static activity of

aureomycin and chloromycin in a concentration

(in V/ml.) of 0.37-3 dihydro-streptomycin 0.18-3 of terramycin 0.18-1.5; and also pennicillin 0.01-0.45 in relations to 155 strains of Corynebacterium diptheriae (121 of the gravis

type, 34 of mitis).

Card 1/1

### POLAND

LASKOWNICKA, Zofia; POREBSKA, Alicja; and ZEMBUROWA, Krystyna; Department of Medical Microbiology at the Krakow Medical Acedemy (head: Frof Dr Z. PRZYBYLKIEWICZ)

"The Bjorklund Method as Applied to the Serological Typing of Candida Albi-

Warsaw, Medycyna Doswiadczalna i Mikrobiologia, Vol 18, No 2, 66, pp 171-176

Abstract [authors' Russian and English summaries, modified]: Serological analysis was performed on 147 Candida albicans strains isolated from various clinical materials. Agar gel precipitation was applied as modified by Bjorklund. Autolysates prepared from the tested strains and from Hasenclever standard strains types A and B were used as antigens, and rabbit immune antisera C. albicans type A. Among the 147 tested strains isolated from 107 patients,9.3 percent were type B and 90.7 percent were type A. Eleven Western references.

1/1

POLAND

LASKOWNICKA, Zofia; POREBSKA, Alicja; and ZEMBUROWA, Krystyna; Department of Medical Microbiology at the Krakow Medical Academy (head; Prof Dr Z. PRZYBYLKIEWICZ)

"Immunological Evaluation of Candida Albicans Antigens. Part 1. Complement-Fixation Test."

Warsaw, Medycyna Doswiadczalna i Mikrobiologia, Vol 18, No 2, 66, pp 177-182

Abstract [authors' Russian and English summaries, modified]: Antigenic activity was compared in preparations obtained from seven strains of Candida albicans type A by sonication of cells, grinding with sand, autolysis, and acetone precipitation of the culture medium. Antigens prepared by the above methods were found to be equally suitable for complement-fixation tests. Their activity was high in the test, the titers ranging from 1:512 to 1:8192. 14 Western references.

1/1

POLISH

IASKOWNIC/A, Zoria; POREDCKA, Alicja; and ZEMBUROWA, Krystyna; Department of Medical Microbiology at the Krakow Medical Academy (head: Prof Dr Z. PRZYBYLKIEWICZ)

"Immunological Evaluation of Cardida Albicans Antigens. Part 2. Agar Gel Precipitation Test."

Warsaw, Medyeyna Doswiadczaina i Mikrobiologia, Vol 18, No 2, 66, pp 183-187

Abstract [authors' Russian and English summaries, modified]: The specific precipitation inhibition test according to Bjorklund was found to be highly applicable in determining serotypes of the tested strains. An analysis of 16 human sera, previously tested by complement-fixation, permitted the detection of antibodies in two cases. One precipitation band was found in tests with these antibodies. One Soviet-bloc and 15 Western references.

1/1

CHARLES BESTELLE STATE OF THE SECOND SECOND

PRZYBYLKIEWICZ, Zdzislaw; ZEMBUROWA, Krystyna; POREBSKA, Alicja; KWIATKOWSKA, Eugenia; GARLICKA, Zdzislawa; PAJOR, Zdzislaw

Investigations on the immunology of diseases of central nervous system in children. Neurol. neurochir. psychiat. Pol. 15 no.4: 625-633 Jl-Ag '65.

1. Z Zakladu Mikrobiologii Lekarskiej AM w Krakowie (Kierownik: prof. dr. Z. Przybylkiewicz) i z Kliniki Psychiatrycznej AM w Krakowie (Kierownik: prof. dr. K. Spett).

POREBSKA, Alicja; ZEMBUROWA, Krystyna

Specific gel precipitation. Postepy hig. med. dosw. 17 no.1/2: 1-30 163.

1. Z Zakladu Mikrobiologii Lekarskiej /M w Krakowie Kierownik: prof. dr Z. Przybylkiewicz.

(ANTIBODIES) (ANTIGENS)

POREBSKA, Alicja; PRZYBYLKIEWICZ, Zdzisław; ZEMBUROWA, Krystyna

Typing of Corynebacterium diphtheriae isolated in the Krakow region during 1955. Med. dosw. mikrob. 8 no.3:345-350 1956.

1. Z Zakladu Mikrob. Lekarskiej AM w Krakowie.

(CORYNEBACTERIUM DIPHTHERIAE,
typing strains isolated in Poland (Pol))

POREBSKA, Alicja; PRZYBYLKIEWICZ, Zdzielaw; ZEMBUROWA, Krystyna

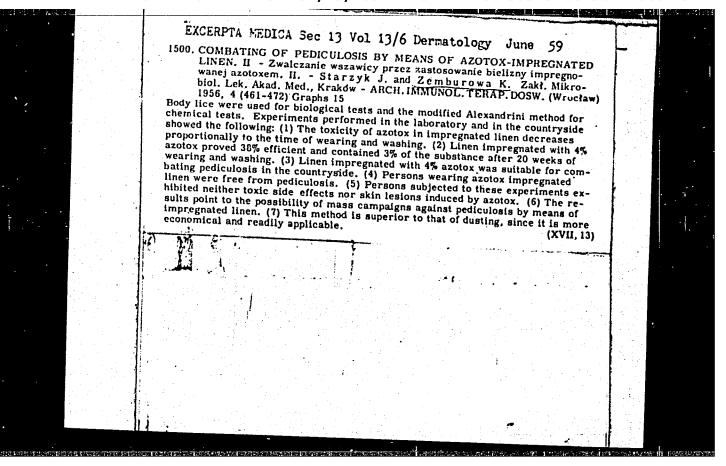
Determination of toxicity of Corynebacterium diphtheriae in
vitro. Postepy hig, med. dosw. 10 no.4; 389-400 1956.

1. Zaklad Mikrobiologii Lekarskiej AM, Krakow, ul. Czysta 18.
(CORYNEBACTERIUM DIPHTHERIAE,
toxin, determ. of prod. in vitro (Pol))

POREBSKA, Alicja; ZEMBUROWA, Krystyna

Sensitivity of Corynebacterium diphtheriae to certain antibiotics in vitro. Med. dosw. mikrob. 8 no.3:351-355 1956.

1. Z Zakladu Midrob. Lekarskiej AM w Krakowie.
(CORYNEBACTERIUM DIPHTHERIAE, effect of drugs on, antibiotics (Pol))
(ANTIBIOTICS, effects, on Corynebacterium diphtherias (Pol))



POLAND/Zooparasitology - Ticks and Insects Vectors of Desease Agents.

Abs Jour

: Ref Zhur Biol., No 1, 1959, 1039

Author

Starzy, Jan; Zemburowa, Krystyma

Inst Title

: Eradication of Lice by Improgration of Linens with

Azotox

Orig Pub

: Arch. immunol. i terap. doswiadcz., 1956 (1957), 4,

461-472

Abstract

: For the extensive eradication of linen lice the materials were successfully impregnated with a 4% Azotox solution. After 20 weeks of washing and wearing the linens contained 3% of the active preparation and preserved an insecticide property. The preparation is nontoxic for humans.

Card 1/1

- 35 -

CIA-RDP86-00513R001964420002-3" **APPROVED FOR RELEASE: 07/19/2001** 

SEBALA, Antoni; ZEEBUROVA, Krystyna

The second second second

New attempt at an early diagnosis of meningeal tuberculosis. Polski tygod.lek. 10 no.22:715 30 May 155.

1. Z Kliniki Chorob Dzieci A.M. Krakow; kierownik: prof. dr Wl. Bujak i z Zakladu Mikrobiologii A.M. Krakow; kierownik: prof. dr Z Przybylkiewicz) Krakow, ul. Kolberga 15 m. 8.

(TUBERCULOSIS, MENINGRAL, diagnosis early, progr.)

### POLAND

POREBSKA, Alicja and ZENBUROWA, Krystyna, Dopartment of Medical Microbiology (Zaklad Mikrobiologii Lekarskiej). AM [Akademia Medyczna, Medical Academy] in Krakow (Director: Prof. Dr. Z. PRZYBYLKIEWICZ)

"Specific Precipitation in Gel."

Warsaw, Postopy Higieny i Medycyny Doswiadczalnej, Vol 17, No 1-2, 63, pp 1-30.

Abstract: Referring the reader for the theoretical back-ground to the literature, the authors review the single, as well as double antigen-antibody diffusion tests in agar gel, dwelling in particular on the Ouchterlony method and its modifications, including the Crowle comparator, the identification of the specific precipitation lines, use for purposes of quantitative determination, and application to the study of various antigens. There are 292 references, almost exclusively Western (one Polish and four Czech, with possibly some of the German references being the exception).

1/1

PRZYBYLKIEWICZ, Zdzislaw; POREBSKA, Alicja; ZEMBUROWA, Krystyna; TUROWSKA, Bozena

Immunoelectrophoretic analysis of rabbit precipitins against human perum proteins. II. Heterologous reaction. Acta med. pol. 4 no.1: 127-142.163.

1. Department of Medical Microbiology, Medical Academy, Cracow Director: Prof. Dr. Z. Przybylkiewicz Serum and Vaccine Production Laboratories, Cracow Director: Dr. Z. Moszczenski.

(IMMUNOELECTROPHORESIS) (PRECIPITINS)

PRZYBYLKIEWICZ, Zdzielaw; POREBSKA, Alicja; ZEMEUROWA, Krystyna; TUROWSKA, Bozena

Immunoelectrophoretic analysis of rabbit precipitins against human serum proteins. I. Homologous reaction. Acta med. pol. 4 no.1: 105-125 '63.

1. Department of Medical Microbiology, Medical Apademy, Cracow Director: Prof. Dr. Z. Przybylkiewicz. Serum and Vaccine Production Laboratories, Cracow Director: Dr. Z. Moszczenski.

(PRECIPITINS) (IMMUNOELECTROPHORESIS)

## POREBSKA, Alicja; ZEMBUROWA, Krystyna

Utilization of Linggood's medium in the determination of toxic properties of Corynebacterium diphtheriae in vitro. Postepy hig. med. dosw. 12 no.3: 293-294 1958.

1. Zaklad Mikrobiologii Lekarskiej AM. Krakow, ul. Czysta 18. (CORYNEBACTERIUM DIPHTHERIAE,

virulence, determ, with Linggood's culture medium (Pol)) (CULFURE MEDIUMS,

Linggood's medium, determ. of Corynebacterium diphtheriae virulence (Pol))

ZEMBUROWA, R.

BAKOWA, S.; BIRLANSKA, A.; ZEMBUROWA, R.

Phagocytic index in infant diarrheas. Pediat. polska 29 no.5:

495-500 May 54.

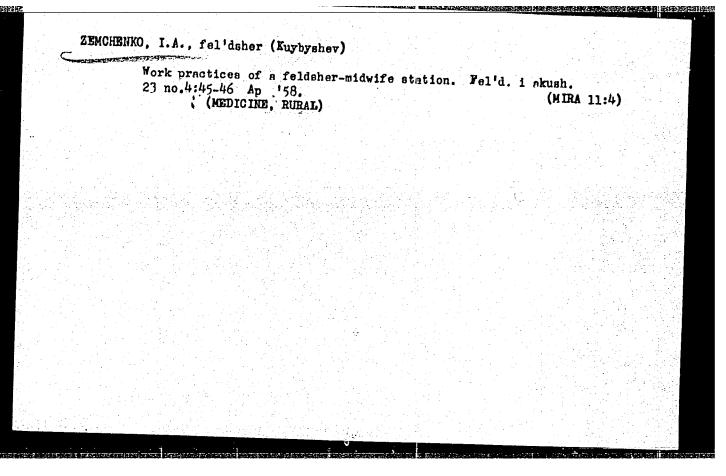
1. Z Kliniki Chorob Dzieci Akademii Medycznej w Krakowie,
Kierownik: prof. dr med. W.Bujak i z Zakladu Mikrobiologii
Lekarekiej Akademii Medycznej w Krakowie, Kierownik: prof. dr med.

Z.Przybylkiewicz.

(DIARRHEA, in infant and child,
\*phagocytic index in)

(HAGOCTTOSIS, in various diseases,
diarrhea in inf.)

	ZIMCHE	NKO, I.A.	(Kuybyshev)	
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Speed up the introduction of workers' suggestions. Besop. truda v prom. 1 no.6:39 Je '57. (MIRA 10:7)  1. Shakhta "Pionerskaya" tresta Belovugol'. (Kusnetsk BasinGoal mines and mining)	1. Shakata "Pionerskaya" tresta Belovugol'.	ZIMOH	ENKOV, I., gornyy master.	
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			1. Shakata "Pionerskaya" tresta Belovugel'. (Kusnetsk BasinCoal mines and mining)	

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### ZEMCHOROVSKAYA, G.A.

Pseudopositive reactions. Vest.ven. i derm. no.3:57 My-Je 156.
(MLRA 9:9)

1. Iz L'vovskogo kozhno-venerologichenkogo instituta. (SYPHILIS-DIAGNOSIS--WASSERMAN REACTION)

ZEMCIK, Tomas

Determination of some structural properties of crystals from the directional dependence of the g-factor. Cs cas fys 14 no.3:186-194 \*64.

1. Institute of Metal Properties, Czechoslovak Academy of Sciences, Brno.

### ZEMEK. M.

"Iron Industry in the Zdar Area", P. 16, (CESKY LID, Vol. 40, No. 1, Feb. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

Guzera, Jan; ZEMEL, Irena

The present and the futrue of the Wyszkow Furniture Plant; an optimistic report. Przem drzew 13 no.2: 28-30 '52.

1. Redaktor dzialowy miesiecznika "Przemysl Drzewny" (for Guzera)
2. Sekretarz redakcji miesiecznika "Przemysl Drzewny" (for Zemel),

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 The	*Baku	radio	receive	ייי	Rudio	no 8:11	7_10 As	, 157		(MLR	1 4.01	
	 	2	10020	1000110	, .	(1	adiol	Receive	rs and	recepti	on)	<b>A</b> 0:0)	
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USSR/Mectronics - Radio Receivers -

July 53

MEL, YU.

"The Baku Radio Receiver," Yu. Zemel!

Radio, No 8, pp 17-20

The Min of Local Industry, Azerbaydzhan SSR, is producing the "Baku" receiver, a xerema 6-tube, class II superheterodyne with long-, medium-, and the short-wave bands. Provision is made for a second speaker to operate from 30-v wired radio networks. Sensitivity is about 200  $\mu$ v on the long- and medium-wave bands and about 300  $\mu$ v on the short-wave bands. The rated output power is 1.5 w.

261775

ZEMEL', Yu. Ya., inzh.

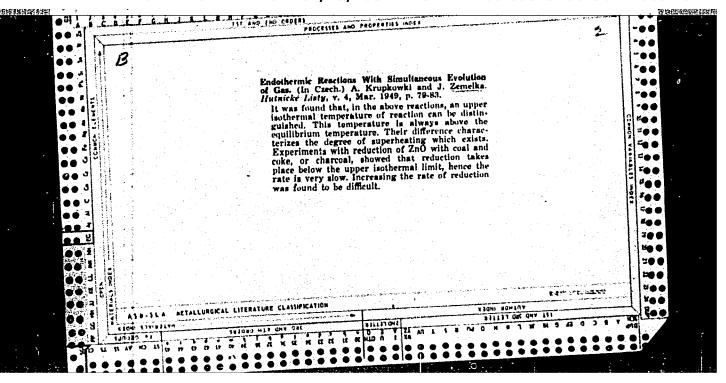
Illuminants of the subway station "Rizhskaia." Svetotekhnika 4
no. 7:13 J1 "58. (MIRA 11:7)

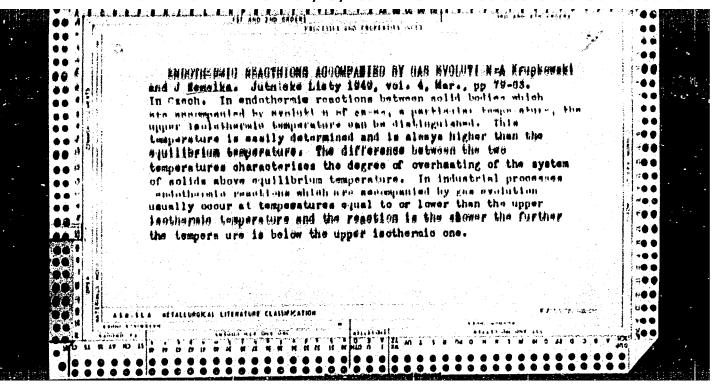
1. Rizhskiy zavod elektroustanovochnykh isdeliy.
(Subways)
(Lighting, Architectural and decorative)

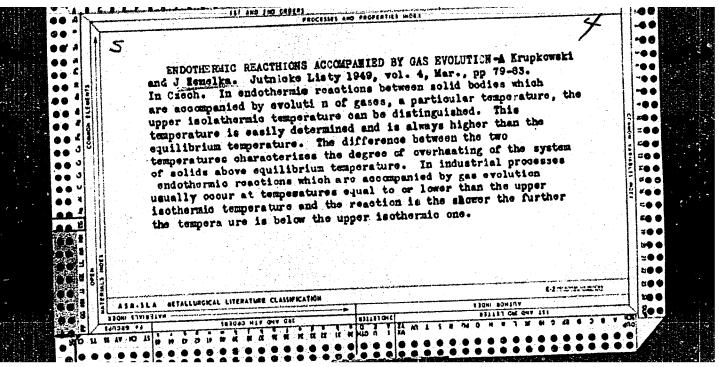
ZERL!, Yu.Ya., inzh.

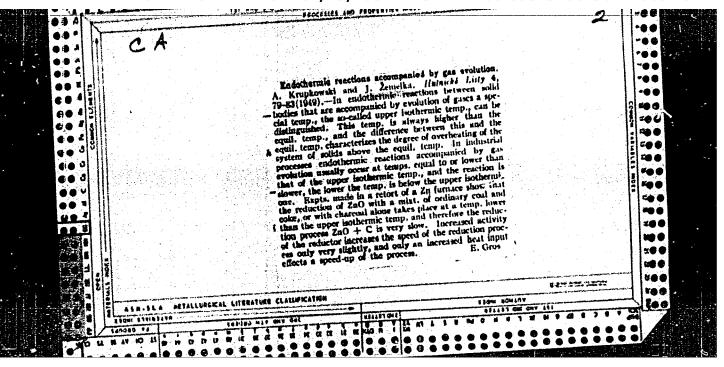
Production of lighting fixture in France. Systotekhnika 6 no.6:13-16 Je '60. (MIRA 13:7)

1. Rizhskiy svetotekhnicheskiy zaovd.
(France--Electric lamps)









ZŒŒLKA, J.

Progress in the technology of belts made from nonferrous metals in relation to national needs. p. 200.

HUTMIK, Katowice, Vol. 22, no. 6, June 1955.

SO: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

ZETEL'-KOGAN, R.I.

"The Clinical Aspects and Course of Scarlet Faver in Conjunction with

Measles," Pediatrics, No.2, 1948. Decent., Chair Children's Infectious

Diseases, Pediatric Faculty, Sverdlovsk Med. Inst., -c1948.

# Labor productivity in the zinc and lead industries of the U.S.A. Biul. nauch. inform.: trud i zar. plata 5 no.6:55-61 '62. (United States—Zinc industry—Labor productivity) (United States—Lead industry—Labor productivity)

AUTHOR: Zemel'man, B. M.; Bessmertnaya, F.S.

ORG: Dagestan Antiplague Station (Dagestanskaya protivochumnaya stantsiya)

TITLE: Inmunological reorganization in persons repeatedly vaccinated against brucellosis at foci of infection

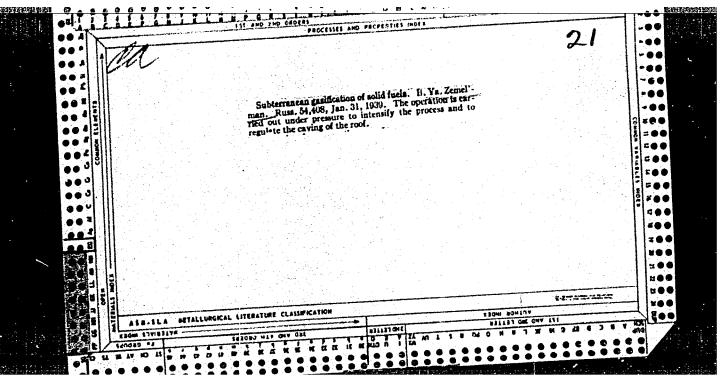
SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 9, 1965, 78-81

TOPIC TAGS: infective disease, disease incidence, immunology

Attrinct: The authors had two groups of people under observation who worked under different epizootological conditions; they studied the effect produced by repeated vaccination on sensitization. The number and degree of evidence of positive reactions to brucellosis in the vaccinated persons are mainly determined by the massiveness of the foci of infection in which they work. It is very doubtful that repeated vaccination can cause hypersensitization in people, but in all probability it can intensify, in vaccinated persons, a state of hypersensitization which arises when they are repeatedly infected when working in a focus of infection. The authors use the data obtained as grounds to conclude that persons with positive immunological reactions to brucellosis should be excluded from vaccination. Orig. art. has: 2

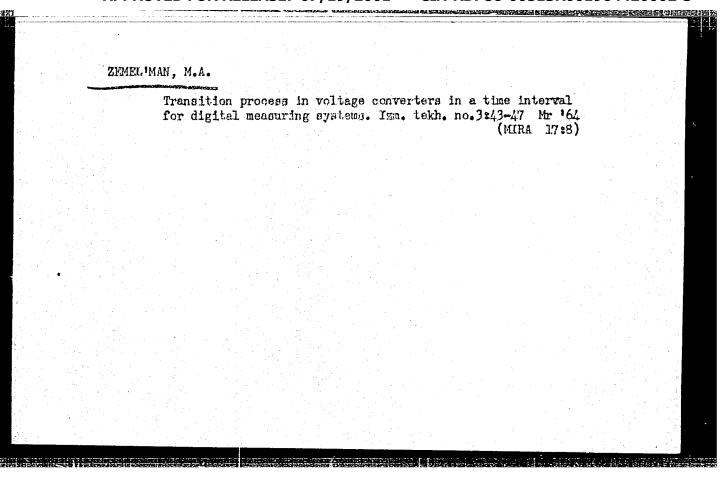
ZEMEL'MAN, B. Ya.			
Fuel Abstracts Vol. 15 No. 3 Mar. 1954	2062. APPARATUS FOR REIKVAL OF SULID SUBTERRAMFAN CASIFICATION. Zemel'man, PD., from abstr. in Chem. Abstr., 1952. Vol. 1,7, is placed directly in the drill holes takin	G FROM CASES CEMENATED IN a. (U.S.S.R. P. 77,273/1949; 10202). The scrubbing apparatus g up the gas. W.D.	
Gaseous Fuels: Propert			

Z	emel'i	dan, B.Ya.						
		gasificatio	for removal on. Patent 19:10202 15:	U.S.S.R.	s from gaues 77,273, Dec	generated .31, 1949.	by subterranea	
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ILYUKOVICH, Askol'd Mikhaylovich; ZEMEL'MAN, M.A., red.; LARIONOV, G.Ye., tekhn. red.

[Electric meters; their theory, calculation and design]
Elektricheskie schetchiki teoriia, raschet i konstruktsii.
Moskva, Gosenergoizdat, 1963. 383 p. (MIRA 16:10)
(Electric meters)



ZEMEL'MAN, M.A.; KARELIN, N.M.; KIPARENKO, V.I.

Metrological problems in automatically controlled production. Izm.tekh.no. 4:19-20 Ap '64. (MIRA 17:7)

VOSTROKNUTOV, N.N.; ZEMEL'MAN, M.A.

Metrological characteristics of precision voltage stabilizers and methods for their investigation. Izm. tekh. no.1:38-41
Ja \*164.\*

(MIRA 17:11)

•	ZEMEL'MAN, MA 500 17
	L 43.182-65 /EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1) Pf-4 ACCISSION NR: AP5004677 S/0115/64/000/009/0058/0059 70
	AUTHOR: none
	TITLE: Fourth scientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods"
•	SOURCE: Izmeritel'naya tekhnika, no. 9, 1964, 58-59
	TOPIC TAGS: cybernetics, electric measurement, electric quantity instrument, digital computer, electronic equipment, electric engineering conference
	ABSTRACT: The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Slectrical Measurements of the Council on
•	the Problem of "Scientific Instrument Making" of the State Committee on Coordination of Scientific Research Work in the SSSR together with the All-Union Scientific
	Research Institute of Electrical Measurement Instruments and the Leningrad Regional
	Administration of the Scientific and Technical Division of the Instrument Making
	Industry. More than 400 delegates from 20 cities of the country participated.  Fifty-seven reports were heard and discussed. Reports were given by: P. V.
	HOVITSKIY (Leningrad) Definition of the Concept of Informational Error in Measure-
	mont and its Importance in Practical Use" and "On the Problem of the Average Informational Criterion of Accuracy Throughout the Entire Scale of an Instrument"; Ya. A.
	Card 1/4
	그는 그는 그는 사람들은 그 사람들은 사람들이 가장 그는 사람들은 사람들이 가장 그를 가장 하는 것이 되었다.

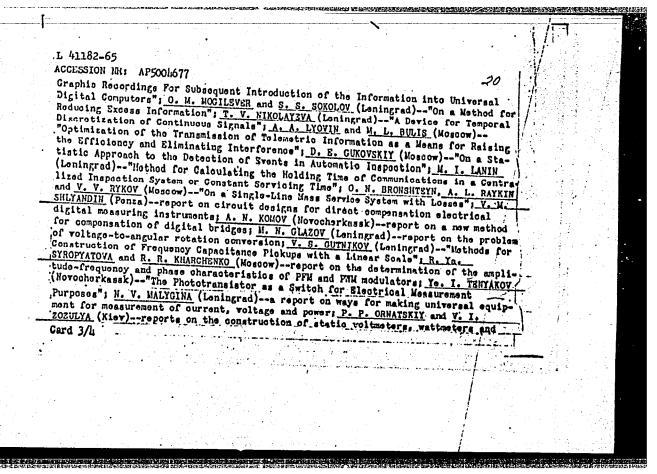
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ACCESSION NRs - AP5004677

\*\*KUPERSHBILDT\*\* (Moscow)--\*\*On Determination of the Criteria of Accuracy for Measurement Devices\*; S. N. MANDEL'SHTAM (Leningrad)--report on a new criterion of securacy of measurement instruments; P. P. PARSHIM (Leningrad)--report on optimization when using Fourier transforms on electronic digital computers; S. P. DAITHINIZY, G. Ya.

DOCHINSVA and A. A. IONATOY (Leningrad)--proposal of a new method for solving problems of optimum filtering for non-abstionary random signals and interference;

1. B. GESLPAMOY.-\*\*Calculation of the Dynamic Characteristics of an Optimum Complex T. A. POLIEKTOY (Leningrad)--"Optimum Periodic Correction in the Research of Continuous Signals\*; S. P. ADIMOVIGH (Moscow)--"Analysis and Construction of Davices for Correction of Mon-linearity and Scaling for Unitary Codes, C. CORSLOVA (Taganre,)--"A Mothod for Statistical Optimization in Graduting the Scales of Electrical Mosauring Instruments\*; M. A. ZEIGELMAN (Moscow)--"Analogo-Digital Voltage Converter with Automatic Surrounder, M. A. ZEIGELMAN (Moscow)--"Manalogo-Digital Voltage Converter with Automatic Surrounder, M. A. ZEIGELMAN (Moscow)--"Other Blockrical Signals of Complex Radio and Electronic Squipment\*; V. P. PEROV (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. P. FEROV (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Independent Scientific Specialization\*; Ps. ROIT-80 (Moscow)--"Operational Cybernotics as an Inde



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	phase meters; A. V. TRIKH	LANOV, I. G. SMYSHLYAYEV, N. I. SABLI	N. V. M. RAZIN and V. A.
	vibration amplitude of an	on a device for automatic processing tournatio hammers; L. K. RUKINA and V.	of the measurements of
	report on the developme	ent of a digital compensator for meas	Us KNUKKING (Leningrad)
	occ.; N. B. DADUKINA (Lon	lingrad)report on a mothod for cons	trunting fraquency
	pickups for gas analysis;	Yo. M. KARPOV. V. A. BRAZHNIKOV and	B. Yo. LIKHTTSINDER
	(NUYOYENDY) roports on a	Edivals and recording of boring anea	ides Yu. V.
	Pickupa": G. P. VIKHROV a	"A High Speed Voltage-to-Digital C	ode Converter for ac
	to-Peak Voltmoter"; and S	and V. K. ISAYEV (Vilna)"A Highly A . M. PERSIN (Loningrad)"A Low Love	ol Analor-Digital Volt-
	age Converter.		
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Cemel. In	AN, M.A.				
	Nonlinearity of volumeasuring systems.	ltage to time-i Izm. tekha no	nterval conver. .10:37-43 0	sion in digital 63. (MIRA 16:12	<b>.)</b>
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ACCESSION NR: AP4026275

5/0115/64/000/003/0043/0047

AUTHOR: Zemel'man, M. A.

TITLE: Transients in voltage-time converters used in digital measuring systems

SOURCE: Izmeritel'naya tekhnika, no. 3, 1964, 43-47

TOPIC TAGS: transients, voltage time converter, digital measuring instrument, transients theory, balance detector

ABSTRACT: A theoretical analysis of diode balance detectors is set forth with special reference to (1) the effect of circuit parameters on the transient processes and (2) a determination of errors in multichannel converters. The mathematical description of transients is a continuation of the author's previous work (Izmeritel'naya tekhnika, 1963, no. 10). It is claimed that the final formula giving the transient time (or number of cycles) was experimentally verified and that "the experimental results agree well with the estimated ones." The

Card 1/2

## ACCESSION NR: AP4026275

variation in a tube transconductance upon application of a positive pulse to its grid is considered to be responsible for a long transient time in a positive-feedback-type balance detector. Formulas are also derived for evaluation of an error occurring after a channel switch-over in a multichannel converter. To reduce the error, it is recommended that the input impedance and sampling frequency be selected as low as possible. Orig. art. has: 3 figures and

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: IE, CG

NO REF SOV: 004

OTHER: 000

Card 2/2

## ZEMEL'MAN, M.A. New method for making filters for measuring devices. Izm.tekh. no.4:43 Ap '63. (MIRA 16:5) (Electric filters)

13,2940

33127 \$/115/61/000/012/001/005 E198/E455

AUTHORS:

Zemel'man, M.A., Tyurin, N.I.

TITLE:

The evaluation of reliability and suitability for serial production of instruments in the national

research

PERIODICAL: Izmeritel'naya tekhnika, no.12, 1961, 7-8

Both the methods and the theory of checking the reliability and fitness for serial production of prototype measuring instruments The difficulties are increased by the fact are still incomplete. that, as a rule, only a few models, sometimes only one, are checked. Nevertheless, an approach permitting improvement in such checking In order to ensure that the necessary technical is proposed. characteristics are preserved in serial production, the design of the instrument must satisfy at least the two following conditions: 1) that all parts and components supplied as intermediate products are used strictly under prescribed conditions and 2) that the instruments retain the required characteristics when their parts and components, or at least the essential ones, all have the limiting (i.e. the "worst") admissible parameters. In addition, if the instrument contains a negative feedback circuit, this may Card 1/2

33127

The evaluation of reliability ...

S/115/61/000/012/001/005 E198/E455

considerably influence the readings and hamper the detection of undesirable characteristics in the components. It is therefore essential that in such instruments the tests in question are carried out with the negative feedback circuit open, and the necessary adjustments are made subsequently by computation. This is specially important when only one, or a small number of test models, is available for checking purposes.

Card 2/2

ZEMEL:	MAN, M.A.				
	Multiplying	device used in measurements.	Izm. tekh.	no.3:31-33	
		(Electronic digital compu-	ters)	(MIRA 15:2)	

ZEME	EL'MAN, M.A.	
	Experimental investigation of an electronic voltage-to-time interval converter. Izm. tekh. no.4:22-27 '61. (MIRA 14:3) (Pulse techniques(Electronics))	

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MIL'SHTEYN, Viktor Naumovich, prof. [deceased]; ZEHEL'MAN, M.A., red.; VORONIN, K.P., tekhn.red.

[Power relationships in electric measuring devices] Energeticheskie sootnosheniia v elektroismeritel nykh priborakh. Moskva.
Gos.energ.izd-vo, 1960. 311 p.
(Electric meters)

GRIN, G.L.; ZEMEL'MAN, M.A.

Standard transducer of number of pulses for checking counting circuits of discrete measuring instruments. Izm.tekh. no.3:42-43
Mr '59.

(MIRA 12:4)

(Pulse techniques (Electronics)) (Transducers)

SOV/115-59-7-19/33

28(2)

AUTHOR:

Zemel'man, M.A.

TITLE:

Measuring the Nonlinearity of a Sawtooth Voltage

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 7, pp 38-40 (USSR)

ABSTRACT:

The VNII of the Komitet standartov mer i izmeritel nykh priborov (Committee of Standards, Measures and Measuring Instruments) developed a device for measuring small nonlinearities of sawtooth voltages with the required accuracy. This device differentiates a sawtooth voltage for a subsequent measurement of that differentiated pulse section, which corresponds to the working section of the sawtooth voltage, as explained by D.I. Atayev (Ref.1). The block diagram of this device is shown in fig.3. The differentiated pulse enters an amplifier composed of one section of a 6N6P tube, proceeds to the phase inverter with a 6P9 tube, to the limiter-amplifier with 6Kh6 and the other section of the 6N6P tube, and finally to the oscilloscope 25I. A model of this device was used for measuring with a 10 per cent accuracy a 0.06 per cent nonlinearity in sawtooth voltages with an amplitude of 100 volts and a duration of 100 microseconds. With other parameters of the

Card 1/2

SOV/115-59-7-19/33

Measuring the Nonlinearity of a Sawtooth Voltage

sawtooth voltage, the nonlinearity measuring ranges will change accordingly. The device described may be used for tuning and investigating sawtooth voltage generators which are one of the basic units of automatic measuring devices, based on converting analogue data, to digital data. S.V. Rypalev participated in the development of the aforementioned device. There are 1 block diagram, 2 graphs and 1 Soviet reference.

Card 2/2

	New method for de no.7:21-24 Jl '62	eveloping filters for measuring d (Electric filters)	evices. Izm.tekh. (MIRA 15:6)

ZEMEL'MAN, M.A.: TYURIN, N.I.

Using official testing of measuring instruments for the evaluation of their reliability and suitability for serial production. Izm.tekh. no.12:7-8 D '61. (MIRA 15:1)

(Measuring instruments--Testing)

28(5) AUTHOR:

SOV/115-59-3-19/29 Grin, G. L., and Zemel'man, M.A.

TITLE:

A Pulse Number Test Transmitter for Checking Counter Units of Discrete Action Measuring Instruments (Obraztsovyy datchik chisla impul'sov dlya poverki schetnykh skhem izmeritel nykh priborov diskretnogo

deystviya)

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 3, pp 42-43 (USSR)

ABSTRACT:

The readings of electronic counters are usually accepted as being absolutely true. However, inaccuracies may occur which are not always noticed visual-For checking industrial discrete action measuring instruments with numerical reading (having electro-mechanical, gas-discharge or vacuum elements), having an upper limit of the frequency range of not more than 20-30 kc, a pulse number test transmitter was developed and built by the electronic instrument laboratory of VNII Komiteta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research In-

Card 1/4

**APPROVED FOR RELEASE: 07/19/2001** CIA-RDP86-00513R001964420002-3"

SOV/115-59-3-19/29

A Pulse Number Test Transmitter for Checking Counter Units of Discrete Action Measuring Instruments

stitute of the Committee of Standards, Measures and Measuring Instruments). This device produces a pre-determined number of pulses of both polarities of different length, amplitude and pulse frequency. The number of pulses to be transmitted is controlled by the operator. This device, called ODChI (obraztsovyy datchik chisla impul'sov) is a photo-electronic device, consisting of an optical-mechanical unit with a rotating disk, and electronic control unit and a pulse sequence transmitter unit. optical-mechanical unit consists of a rotating disk of 250 mm diameter having 300 rectangular openings near its rim and one close to its center. The light falling on two photoelements is interrupted by the rotating disk. The photoelements work on two channels. During one rotation of the disk, a series of pulses is created in the first channel by the openings near the rim, and one pulse by the opening near

Card 2/4

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SOV/115-59-3-19/29

A Pulse Number Test Transmitten for Checking Counter Units of Discrete Action Measuring Instruments

the center of the disk in the second channel. electric motor which drives the disk develops a maximum of 6,000 rpm which corresponds to 30,000 pulses per second. The length of the pulses can be varied from 1 to 30 microseconds with an amplitude of up to 80 v. It is difficult to obtain a higher frequency with this method. The electronic control unit is also divided into two channels. The second channel serves for forming rare pulses and contains a level trigger for converting the bellshaped pulses from the photo-stages into rectangular ones, which are delayed by a blocking generator for exciting the next stage. Further there are a kipp relay and a trigger controlling the gate circuit. The gate circuit passes or blocks the passage of the working signal in dependence on the control signal. The channel I contains analogous pulse shaping elements. Any type of rectifier producing a stabilized

Card 3/4

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420002-3"

SOV/115-59-3-19/29

A Pulse Number Test Transmitter for Checking Counter Units of Discrete Action Measuring Instruments

voltage may be used for the power supply. The accuracy of the ODChI was determined by oscillographs. It was used as a test device for the state tests of the scaler BK-3 and other electronic counting devices. Technician S.A. Zhurbenko participated in the development of the device. There are 2 diagrams.

Card 4/4

S/115/62/000/003/008/010 E192/E382

AUTHOR: Zemel'man. M.A.

TITLE: A measuring multiplier device

PERIODICAL: Izmeritel'naya tekhnika, no. 3, 1962, 31 - 33

TEXT: An electronic time-pulse instrument for multiplying two direct voltages of 1 - 10 V (with a digital indication of the product) is described. A block diagram of the device is illustrated in Fig. 1. In this the converter 1 produces a sequence of short-pulse groups, each group consisting of two pulses. The time interval t between the two pulses is

proportional to the input voltage  $U_x$  , i.e.

$$t_1 = A_1 U_x .$$

The first of these two pulses opens a gate circuit 3 by means of the circuit 2, while the second pulse closes the gate (or the switch). The voltage at the output of the gate is

Card 1/3

S/115/62/000/003/008/010 E192/E382

A measuring multiplier device

in the form of a train of rectangular pulses whose amplitude is equal to  $U_y$  and duration to  $t_1$ . The filter-amplifier  $t_1$  of the equipment indicates the DC component of this pulse train. The mean value of the voltage at the output of the digital voltmeter  $t_1$  is thus given by:

$$U = \frac{aA_1}{T} U_x U_y \tag{1}$$

where a is a constant coefficient and

T is the repetition period of the pulses.

It is seen from Eq. (1) that the error in the output voltage of the multiplier is dependent on the errors of the converter 1 coefficient a and period T. The error of T can be made negligible by employing a tuning-fork or quartz oscillator as the frequency standard for the converter. The actual oscillator employed by the author was stabilized by a tuning fork. The converter is illustrated diagrammatically in Fig. 2. It

Card 2/4

A measuring multiplier device

S/115/62/000/003/008/010 E192/E382

consists of: 1 - the tuning-fork timer-oscillator; 2 - a sawtooth voltage generator based on a pentode with anode-grid capacitance (Ref. 2: L.A. Meyerovich, L.G. Zelichenko - Pulse technique -"Sovetskoye Radio", Moscow, 1953); 3 and 4 - zero indicators based on a diode-transformer circuit with positive feedback (Ref. 3 - the author - Izmeritel'naya tekhnika, no. 4, 1961). The errors of the converter are analyzed in some detail. the gate is in the form of a six-diode circuit (Fig. 3). circuit has the advantage of reducing the interference between the control circuit and the signal-modulation circuit and permitting connection of the mcdulated voltage control voltage to a common point. The filter-amplifier of the multiplier is based on a photo-compensated amplifier which also performs the function of a matching amplifier. Experimental investigation of this filter showed that the longest transient time of the multiplier was of the order of 0.5 sec and the amplitude of the AC component did not exceed 0.03% of the direct component. The error of the multiplier was of the order of Card 3/4

ZEMEL'M	AN, M.A.
	Determining minimum permissible radiation flow from sources in radioisotope instruments. Izm.tekh. 20.no.1:51-54 Ja., '59. (MIRA 11:12)
	(RadioisotopesIndustrial applications)

AUTHOR:

Zemel'man, M.A.

SOV/115-58-1-34/50

TITLE:

Modern Automatic Electronic Potentiometers and Bridges (Sovrem ennyye avtomaticheskiye elektronnyye potentsio-

metry i mosty)

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 1, pp 75 - 79 (USSR)

ABSTRACT:

The article presents general information on the operating principles and design of modern automatic electronic potentiometers produced in USA, Great Britain, France, West Germany, and USSR. The author's information sources are foreign periodicals of the year 1953 and later. Soviet made instruments are compared with the foreign makes. It is stated that the USSR lags in the quantity of instrument types as well as in the utilizing of modern achievements in instrument design. The Institut Avtomatiki i telemekh-

Card 1/2

aniki Akademii nauk SSSR (Institute of Automation and Tele-

SOV/115-58-1-34/50

Modern Automatic Electronic Potentiometers and Bridges

mechanics of the AS USSR) has produced and tested a socalled ferroionic stabilizer for feeding the measuring circuit of automatic potentiometers, but it has not yet been introduced into industry. At present there are no automatic potentiometers with a.c. mains supply available. There are 5 diagrams.

1. Potentiometers--Operation 2. Electric bridges--Operation

Card 2/2

ZENIELIN	MANY ALL ALL	
ZHMIL'H	AAN, WAA.	
The second secon	Hodern automatic electronic potentiomsters and bridges. Izm. tekh. (MIRA 11:2) no.1:75-79 Ja-F '58. (Fotentiometer) (Electronic instruments)	

Zemel'man, Am. A.

MEASUREMENTS

"Modern Automatic Electronic Potentiometers and Bridges", by AM.A. Zemel'man, Izmeritel'naya Tekhnika, No 1, January-February 1958, pp 75-79.

A survey article, discussing the general state of the art. It is noted that the status in Russia in this field is behing that of the western countries with respect to the number of types of automatic potentiometers produced and with respect to incorporating in such bridges the latest accomplishments in instrument-building techniques. Evidence of the need for development of such instruments in Russia is the fact that what instruments are built are developed not by the instrument-building organizations, but by the other organizations that find needs for such instruments, and that consequently such instruments are not made on a mass production basis but are rather custom built.

Card 1/1

USSR/Blectricity - Voltage Regulation Aug 52
Power Supplies

"Method for Precision Regulation of a DC Voltage," M. A. Zemel'man, Cand Tech Sci, Moscow State Inst of Measures and Measuring Instruments

"Elektrichestvo" No 8, pp 74, 75

Describes method and gives circuits for stabilization of dc voltage. Method will maintain a given voltage with accuracy of the order of hundredths of a percent under wide variations of supply voltage and load. Submitted 15 Sep 51.

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ZEMEI	'NAN', H.A.		
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	Voncent rouse and description		
	Measurement range and frequency errors in electronic meters. Izm. tekh. no.3:26-30 Hy-Je 155.	condenser	frequency
	meters. 12m. tekn. no.3:26-30 Hy-Je 155.	(HIRA	8:9)
	(Electronic measurements)		
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Effect of the shape of voltage curves on the indications of diede voltmeters with linear characteristics. Izm.tekh. no.4:49-54
J1-Ag '56. (Electron-tube voltmeter)

ZEMEL YAN, M.A. (Moskva)

Relationship between random errors of an analog-to-digital converter with an automatic correction of systematic errors and the noise of elements of its circuit. Avtometriia no.2: 59-62 '65. (MIRA 18:9)

#### 

L 06556-67 EWT(d)/EWP(1) GG/BB ACC NR: AP6015235 (N) S

SOURCE CODE: UR/0410/65/000/002/0059/0062

AUTHOR: Zemel'man, M. A. (Hoscow)

ORG: none

TITLE: The relationship between random errors of an analog-to-digital converter with automatic correction of systematic errors and noise in its circuit elements. [Presented at the VI All-Union Conference on Automatic Control and Electric Measurement Methods, September 1964, Novosibirsk]

SOURCE: Avtometriya, no. 2, 1965, 59-62

TOPIC TAGS: analog digital converter, computer component, signal noise separation

ABSTRACT: The relationship between random errors and the zero-level fluctuations of the zero-element of an analog-to-digital converter was previously discussed by the author. In the present work, the author considers the relationship between the fluctuations of the slope of the sawtooth voltage, the amplitude, and the operation threshold on one hand and the circuit parameters and the noises of the converter on the other. In the analyzed converter, a diode-regenerating zero-element with positive feedback was used. It was found that the absolute value of the mean square deviation of the operation threshold of does not depend on the condensor voltage. Thus, it follows that of is a noise component of the zero-level of the zero-element. The second noise component

Card 1/2

UDC: 621.374.088