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ACCESSION IIR: AT5017709 UR/0000/65/000/000/0222/0236	
AUTHORS: Nikolaysv, G. A.; Vinokurov, V. A.; Kurkin, S. A.; Gazaryan, A. S.; 4	
Sagalevich, V.	
TITLE: Residual stresses and deformations of welded structures	
SOURCE: AN UkrSSR. Institut elektrosvarki. Proyektirovaniye svarnykh konstruktsii (Design of welded structures). Kiev, Naukova dumka, 1965, 222-236	
TOPIC TAGS: welding technology, steel, residual stress, <u>titanium</u> , tempering, welded structure, residual deformation, nonferrous metal alloy, plastic property	-91 1
ABSTRACT: Residual deformation, stresses, and associated subjects related to the strength of welded structures are discussed. (The process of the formation of residual stresses in joints of different matals when welded from very thick elements was investigated for the causes of the formation of brittle fractures in welds, and ways to eliminate these fractures are proposed. The physical and mechanical properties of the materials were found to have a major effect on the residual stresses are directed along the weld ($\sigma = \sigma_{\rm T}$) only in some steels but not in nonferrous alloys	
and titanium. A comparison was made of the stresses and deformations resulting Card 1/3	
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in various types of steels welded by several techniques. The deformation and
Anages con be regulated by processing techniques, and particularly by the use of
any mat yolding techniques using alectron beam, gitrasonic waves, girrus say, soci
In very thick members the restrual ter rowther her a unique character and in on-
- In Very chick semaons, to the control of the control and and and yread of the same a little of the control of
contributing components. Two theoretical-experimental methods were sevel red i r
calculating the three-acis time-temperature field and residual stresses. In the
first, the weld was cut parallel to the weld axis into strips 10-15 mm wite, and
the changes in the length and thickness of these strips were determined. In the
second method a hole was bored, the stresses were measured, and the deformation
was determined. The stresses in thick members were found to be nonunifornly dis-
was determined. The stresses in micr memory level found to determined and in structural tributed. Investigation of the brittle strength of the weld and in structural
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ACCESSION MR: AP5021247 AUTHOR: Vinoxurov, V. A.; Ivanov, Yu. H.	UR/0293/65/003/004/0534/0539 629.191:518.61 /5 8
FITLE: Generalized Newton method for solv	ing boundary-value problems
SOURCE: Kosmicheskiye issledovaniya, v. 3	
POPIC TAGE — boundary value problem, Newton steepest descent wethod	n method, generalized Newton method,
ABSTRACT: For solving boundary-value problemethod synthesizing two methods of the full the method of sterpest descent-mis present method from the traittures, see result in that to the method in sterpest descent the convergence of the calculation process calculation tax be shortened. A computation of the calculation process	Instional analysis — the Newton method and "The Senture who boilstuck misses the Status and a construction and any senture status of the status required and the time required for
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THE PERSONNER PRACE STRACT

VINOKUROV, V.A., doktor tekhn.nauk; GOLGOFSKIY, F.I., inzh.; DAMILOV, G.I., inzh.; KOMOV, V.V., inzh.

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Electric machinery with evaporating and universal cooling systems for aircraft. Elektrotekhnika 36 no.1:5-7 Ja 165. (MIRA 18:3)

CIA-RDP86-00513R001860020001-3

. , t AUTHORS: Kurkin, S. A.; Luk'yenov, V. F.; Vinokurov, V. A.; Gubanov, Yu. N.; Parakhin, V. N. TITLE: Apparatus for testing thin sheet metal and welded joints. Class 42, No. 169549 SOURCE: Byulleten' izobreteniy i towarnyka znakov, no. 7, 1905, 122 TOPIC TASS: areat metal, welding evaluation, test method, hydraulic pressure, internal streas ABSTRACT: This Author Certificate presents an apparatus for testing thin meet metal and welded joints acted up this branch to be . The apparatus uses the metric of englying pressure to the concentration of structure internations on the and the second produced and the second second states and a second second as as and a second second • • ан ал **к к к** المراجع المحاجب المحاج المتعاد المتعاد المحاج ا Cara 1/2



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ACCESSION NR: AP3000498	S/0145/63/000/001/0157/0161
AUTHOR: Vinokurov, V. A. (Candida	te of technical sciences, docent)
TITLE: Stress relaxation in welde	d construction made from thick sections
SOURCE: Izv. VUZ: Mashinostroye	niye, no. 1, 1963, 157-161
TOPIC TAGS: stress relaxation, we relaxation time, thick section weld	lding residual stress, welding seam annealing, ding
	the relaxation time in welds with a three- bution is presented in order to calculate more welded joints with thick cross sections. The
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$y_{s_o} - z_{s_o} = 0,$	$5\sigma\left(\cos\frac{2\pi}{\delta}z+1\right),$
₀ _{yo}	$- \sigma \cos \frac{2\pi}{\delta} z$
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After assuming that planes crossing the y-axis remain flat and do not move (and using the equilibrium relations) the stresses in the center of the weld were calculated as follows (c = o):



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(where S is the thickness of the weld). If in addition the relaxation curves of stress versus time for a certain annealing temperature (and material) are available; a time plot of the three-dimensional stresses can be constructed. Although these relaxation curves are easily obtained only for the simplest geometrical shapes, they are nevertheless of importance. A comparison was plotted between a weld with only one-dimensional stress and a weld with the stress distribution given above. It was found that the stress in the center of the weld relaxes much more slowly for the three-dimensional case. Orig. art. has: 5 figures and 14 formulas.

ASSOCIATION: MUTU im. N. E. Baumana (AVTU)

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的问题的问题的考虑了目标的 VINOKUROV, V.A., kand.tekhn.nauk,dotsent Stress relaxation in welded structures made of very thick components. Izv.vys.ucheb.zav.;mashinostr.no.1:157-161 '63. (MIRA 1635) 1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumena. (Strains and stresses) ينفيع المتعني ما الأول

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APPROVED FOR RELEASE: 09/01/2001

PARAKHIN, V.A., kand. tekhn. nauk; FROLOV, V.V., dots., kand.tekhn. nauk; SHORSHOROV, M.Kh., dots., kand. tekhn. nauk; GOSPODAREVSKIY, V.I., insh.; SUBBOTIN, Yu.V., inzh.; KURKIN, S.A., dots., kand. tekhn. nauk; VINOKUROV, V.A., dots., kand. tekhn. nauk; KAGANOV, N.L., dots., kand. tekhn. nauk; SHASHIN, D.M., kand. tekhn. nauk; AKULOV, A.I., dots., kand. tekhn. nauk; NAZAROV, S.T., dots., kand. tekhn. nauk; YEVSEYEV, G.B., dots., kand. tekhn. nauk; NIKOLAYEV, G.A., prof., doktor tekhn. nauk, red.; TITOVA, V.A., red.; FUFAYEVA, G.I., red.; CHIZHEVSKIY, E.M., tekhn. red.

> [Laboratory work on welding] Laboratornye raboty po svarke. Moskwa, Rosvuzizdat, 1963. 274 p. (MIRA 16:8)

1. Nauchno-pedagogicheskiy kollektiv Kafedry svarochnogo proizvodstva Moskovskogo vysshego tekhnicheskogo uchilishcha (for all except Nikolayev, Titova, Fufayeva, Chizhevskiy). 2. Zaveduyushchiy kafedroy "Mashiny i avtomatizatsiya svarochnykh protsessov" Moskovskogo vysshego tekhnicheskogo uchilishcha (for Nikolayev).

(Welding-Study and teaching)

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VINOKUROV, V.A.

REFERENCES STATES

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Lengthening the service life without repairs of the pins of the N8 electric locomotive truck coupler. Elek.i tepl.tiaga 6 nc.5:22 (MIRA 15:6) My '62.

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1. Glavnyy inzh. depo Zlatoust Yuzhno-Ural'skoy dorogi. (Electric locomotives--Design and construction)

APPROVED FOR RELEASE: 09/01/2001

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VINOKUROV, V.A.

h.S. Stern

A word from the locomotive engineers about the new T8 electric locomotive. Elek. i tepl. tiaga no.6:29-30 Je '62. (MIRA 15:7)

1. Glavnyy inzhener depo Zlatoust Yuzhno-Ural'skoy dorogi. (Electric locomotives)

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KURKIN, S.A., kand.tekhn.nauk, dotsent; VINOKUROV, V.A., kand.tekhn.nauk Conjecting the buckling of thin-sheet welded structures by rolling. [Trudy] MVTU no.101:186-195 '61. (F (Sheet metal-Welding) (Welding-Defects) (MIRA 14:8) ACCE STRUCT and the second

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S/135/61/000/002/003/012 A006/A001 V.A., Candidate of Technical Sciences, Gazaryan, A. S., AUTHORS: Indaurov Engineer TITLE: Residual Stresses in Thick Butt Welded Joints PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 2, pp. 9-12 At the welding laboratory of MVTU imeni Bauman mean values of the three TEXT: components of volumetric residual stresses averaged over the thickness of weld jointswere measured (Ref. 1, 2). However, the mean values obtained did not give a sufficiently precise picture on the distribution of residual stresses at various spots across weld joints over 40 mm thick. Therefore the authors developed an improved method of investigating volumetric residual stresses with the aid of deep drilling (Ref. 3). The investigation was carried out with the participation of S. A. Kurkin, Candidate of Technical Sciences (MVTU imeni Bauman). The stresses in the metal were measured with the aid of cylindrical calibrated insertion pieces (Fig. 1) onto which resistance strain gauges were fastened. The inserts were placed in stepped apertures oriented along the main axis of stress field or through a certain angle to the field. Multilayer and electroslag butt-welded specimens Card 1/7

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Residual Stresses in Thick Butt Welded Joints

S/135/61/000/002/003/012 A006/A001

80 mm (Fig. 3), 120 (Fig. 4), 240 (Fig. 5) and 350 mm thick (Fig. 6) were investigated. The magnitudes of elastic deformation and stresses were calculated from the difference of measurements prior to and after recording residual stresses. If the aperture axes coincided with the main axis of the residual stress field, the stress components in the depth are determined by the following formulae:

$$\begin{split} & \delta_{\chi} = \frac{\mu E}{(1 + \mu)(1 - 2\mu)} \Delta + \frac{E}{1 + \mu} \mathcal{E}_{\chi}; \\ & \delta_{y} = \frac{\mu E}{(1 + \mu)(1 - 2\mu)} \Delta + \frac{E}{1 + \mu} \mathcal{E}_{y}; \\ & \delta_{\chi} = \frac{\mu E}{(1 + \mu)(1 - 2\mu)} \Delta + \frac{E}{1 + \mu} \mathcal{E}_{\chi}; \end{split}$$

where μ is the Poisson ratio; E is the modulus of elasticity of the first kind, and $\Delta = \mathcal{E}_{\chi} + \mathcal{E}_{\gamma} + \mathcal{E}_{\chi}$ is the volume deformation. If the direction of the aperture axes are forming a certain angle with the direction of the main axes, the magnitude of stresses can be determined using the known formulae of the theory of elasticity. To reveal the nature of distribution of residual stresses across the thickness of the weld the magnitudes of residual stress field components on the surface must be known. If δ_{χ} is equal to zero, δ_{χ} and δ_{Y} are measured with the

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Residual Stresses in Thick Butt Welded Joints

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aid of strain gauges, placed along the weld to measure \mathcal{E}_{χ} and across the weld to determine \mathcal{E}_{4} . Having determined the magnitude of stresses in the depth and on the surface of the metal, data are available on the nature of stress distribution across the thickness. The measurements yielded the following results: The distribution of residual stresses in electroslag and multilayer welded joints has a different nature. In multilayer welds the stresses along the weld joint on the surface approach yield limit values of the material; in the weld depth they are, as a rule, somewhat lower than on the surface. In electroslag welded joints the stresses along the weld attain their highest values in the metal depth along the weld axis; on the surfaces the stresses along the weld are low and often close to zero. The distribution of transverse stresses across the weld joint, in both multilayer and electroslag welded joints, is non-uniform and of a different nature. In electroslag welded joints these stresses in the metal depth are tensile ones and attain values approaching δ_{TT} ; in multilayer welded joints they are, as a rule, compressive ones and usually relatively low. Residual stresses across the thickness by can be tensile (mainly in the case of electric slag welding, less frequently in multilayer welding) and compressive (in multilayer welding). The force system of residual three-axial stresses during the welding of up to 100 mm thick parts, can obviously not cause the transition of the parts to a brittle state,

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VINOKUROV, V.A.

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Means for improving operation of the N8 electric locomotives during winter. Elek.i tepl.tiaga 4 no.2:6 F '60. (MIRA 13:6)

1. Zamestitel' nachal'nika po remontu depo Zlatoust, Zuzhno-Ural'skaya doroga. (Electric locomotives--Cold weather operation)

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BUILDEST PROFESSION CONTRACTOR NEW CONTRACTOR STATES AND STATES NIKOLAYEV, G.A.; VINOKUROV, V.A.; GAZARYAN, A.S.; KURKIN, S.A. Formation of inherent stresses in welding very thick metals. Avtom.svar. 13 no.6:3-11 Je '60. (MIRA 13:7) 1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana. (Plates, Iron and steel--Welding) (Thermal stresses)

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KURKIN, S.A., kand. tekhn. nauk; VINOKUROV, V.A., kand. tekhn. nauk; PARAKHIN, V.A., inzh.

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Strengthening weld joints by press working the seam with rolls. Svar.proisv. no.8:15-16 Ag '60. (MIRA 13:7)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im.Baumana. (Sheet metal---Welding) (Metals--Cold working)

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> S/125/60/000/009/001/017 ▲161/▲130

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AUTHORS: Vinokurov, V.A., Gasaryan, A.S.

TITLE: Deformations in the Electro-Slag Welding Process

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 9, pp. 3-11

TEXT: The magnitude and nature of transverse deformations which develop in the butt welding of plates by the electro-slag process have been investigated, and approximate calculation of such deformations made, using the theory of elasticity. Special removable deformation meters with an indicator head were used for measurements. The conical leg ends of the "deformometers" spaced at 100 mm were placed into holes made in the parts to be joined (Fig. 1) (100 mm space was chosen for making the calculations easier). The points on the part edges were not observed, rather points at a distance ≈ 35 mm from the edges were observed, which resulted in the observations of the butt face displacements being very inaccurate. Various work with straight and annular seams was welded. Measured deformations are shown in

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Deformations in the Electro-Slag Welding Process

four graphs (Fig. 2-5) where the straight line left shows the work edge position before the process and is used for the ordinate axis for time $t_{, qac}$ (t) and the positions of the slider. Displacement of one edge (i.e., one half of deformation measured by the deformometer) is marked on the abscissa. The cylinder in Fig. 5 had a 2.5 m diameter and 450 mm wall. As the work faces in the electro-slag process are not in contact above the pool surface, and down to the 600°C isotherm the bond through the weld metal (for low-carbon steel) does not cause high transverse stresses, the determined displacements apply with sufficient accuracy to the free plate butt face above the 600° isotherm. The equations describing the temperature field in the heated edge are taken from N.N. Rykalin's work (Ref. 3), and the coefficients constant for simplicity in the entire temperature range. The calculation leads to the conclusion that bulging in the process is proportionate with the linear power of the welding heat source per 1 cm metal thickness. Engineers

Card 2/6

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S/125/60/000/009/001/017 Deformations in the Electro-Slag Welding Process A161/&130

V.V. Chernykh, G.G. Meyramov and others of NKMZ im. Stalina (NKMZ im. Stalin) took part in experiments. The following conclusions were drawn. 1. The method and the graphical presentation of deformations of the welding gap revealed to a sufficient degree the mechanism of the development of welding deformations with time. 2. It is clear that butt welded parts should be divided into classes by rigidity and weight. 3. In the welding of deep and heavy plates (Fig. 3), two kinds of deformation are to be expected both of which are not dangerous for the process - convergence and bulging of the edges. A third kind of deformation (angular) is added to convergence and bulging in the case of wide plates with a sligh moment from the weight. To prevent convergence over the permissible tolerance, additional measures must be taken against angular deformation (using cramps, blocks, etc.). 4. Deformations in welding narrow plates lead to closing as well as opening of the gap. Although, opening caused by uneven heating of the plates considerably exceeds other deformations. The gathered experiment data made it possible to evaluate in the first rough approximation of the width of the parts at which the gap opening is to be expected. This must be expected

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\$/125/60/000/009/001/017 Deformations in the Electro-Slag Welding Process A161/A130

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with the width of the parts between 0.4 and 1 m and the weld seam length above 2 m. If the parts to be joined are not sufficiently rigid, the opening of the gap must be prevented by cramps attached by welding to the top of the butt joint. 5. The theoretical investigation has proven that local bulging in the process is proportionate with the linear power per 1 cm of the weld depth. There are 8 figures and 4 Soviet references.

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SOURCE: Elektrotekhnika, no. 1, 19 0 TOPIC TAGS: aircraft generator, generato	965, 5-7 enerator cooling system, air cooling,
exceeding 25 km is discussed. The cooling, which affords cooling into by liquid cooling and significant weight of the equipment. The systematures of the equipment, the systematures of the four and signer and the sheed of 2000 km/nr, flight efficient of a nr, the specific weight of the second	ensity many times greater than air meta tion of the overall size and em can operate at ampient tempermission solides to thmo grant inder. All s

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CIA-RDP86-00513R001860020001-3

s/081/62/000/013/025/054 B177/B101

AUTHORS: Ivanov, A. I., Timofeyev, V. V., Vinokurov, V. B., Lebedev, O. A.

TITLE: Electrolysis of titanium tetrachloride in molten chlorides

9:3722-927-92

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 412, abstract 13K190 (Sb. "Titan i yego splavy". no. 6, M., AN SSSR, 1961, 145-152)

TEXT: Three patterns of semi-industrial electrolyzers have been designed and tested (with a liquid cathode, with a removable cathode, and with rotating cathodes), enabling TiCl₄ to be electrolyzed continuously or

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semi-continuously in the melt. Individual sub-assemblies have been improved and the theoretical efficiency is shown for all three electrolyzers and their basic components. Mention is made of the weakest sub-assemblies in these designs, which call for further development. [Abstracter's note: Complete translation.]

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18.3100	1087	21034 S/598/61/000/006/019/034 D228/D303	
AUTHORS:	Vinokurov, V.B.,	bedev, O.A., Timofeyev, V.V. and Frantas'yev, N.A.	
TITLE:	Electrolysis of chloride salts	itanium tetrachloride in molten	
SOURCE:	Akademiya nauk S yego splavy, no, khimii titana, l	SSR. Institut metallurgii. Titan i 6, 1961. Metallotermiya i elektro- 36 - 144 X)
trolysis of 15 % in a carried out, which the ca 100 hr. TiCl between the following op	TiCl ₄ in molten c large, laborator and the longest thode and deposit 4 was fed through stainless-steel c timum conditions	e technological aspects of the elec- hlorides NaCl 50, CaCl2 35, BaCl2 y pilot-plant. 403 electrolyses were period of continuous operation, during as were extracted 50 times, was about a special quartz pipe into the space eathode and graphite-block anode. The for electrolysis on a semi-industrial a l) The saturation of the electrolyte b. strength of about 200 amp. and at a	
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Electrolysis of titanium tetrachloride.. D228/D303

TiCl4 outlay of 1 - 1.5 l/hr.; 2) A unit-electrolysis time of 5 amp.hr./cm2 -- the cohesion between the cathode and deposit is poor at 15 - 22 amp.hr./cm²; 3) A cathode current-density of approxima-tely 1.8 - 2.0 amp/cm²; 4) An operating temperature of $720 - 750^{\circ}$; 5) A TiCl₄ outlay of 1 1/1000 amp.hr.; and 6) The cessation **W** the TiCl4 input for 5 min. before the end of the electrolysis -- to process the electrolyte at a nominal current-strength. These spetifications were then checked by experiments in an electrolyzer with a hollow cathode and fixed cell -- when it was found that varying the current-strength has little effect on the electrolyte's Ti content for a given outlay of TiCl₄ that within the limits 1.5 - 2.72amp/cm² the cathode current-density does not influence the grade or yield of the Ti deposit, that raising the operating temperature to 800° reduces the amount of Ti precipitated at the cathode, and that varying the TiCl4 input above or below 1 ml/l amp.hr. lowers the current-discharge as a result of the formation of Na or lower chlorides on the electrode surfaces. Additional tests showed that the current discharge is 60 - 70 %, and that the cathode metal contains 1.5 - 4 % of impurities: Fe -- from the cathode rod; C - from Card 2/3

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S/598/61/000/006/019/034 Electrolysis of titanium tetrachloride.. D228/D303

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the a.c. electrodes; Si, Mg and Al - from the lining of the bath; and O, H and N - whose concentration depends on the electrolyzer's airtightness. In conclusion, the authors mention certain problems which require further study if the current-discharge and grade of the metallic Ti are to be implied. These include the perfection of the technique of prolonged continuous electrolysis; the improvement in the design of the electrolizer's components -- in particular the distributor for introducing the TiCl₄; and the rectification of defects in the electrolyte -- its poor ability to dissolve TiCl4 and its tendency to abrade the brick-linings and steel parts. The content of impurities, whose transference is proportional to the time of electrolyis and to the area of the various working-surfaces, would be reduced by increasing the electrolyzer's airtightness, by removing the a.c. graphite electrodes, by cooling parts of the steel v cathodes, by glazing the steel covers, and by lining the bath's inner walls with MgO slaps. There are 5 figures and 2 tables.

Card 3/3

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IVANOV, A.I.; LEBEDEV, O.A.; TIMOFEYEV, V.V.; VINOKUROV, V.B.; PRANTAS'YEV, N.A. Electrolysis of titanium tetrachloride in fused chlorides; design

of continuous action electrolytic cells for use in pilot plants. Titan i ego splavy no.6:136-144 '61. (MIRA 14:11) (Titanium--Electrometallurgy) (Electrolysis--Equipment and supplies)

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21035, S/598/61/000/006/020/034 D245/D303

AUTHORS: Ivanov, A.I., Timofeyev, V.V., Vinokurov, V.B., and Lebedev, O.A.

TITLE: Electrolysis of titanium tetrachloride in fused chlorides ,

SOURCE: Akademiya nauk SSSR. Institut metallurgii, Titan i yego splavy. no. 6, 1961. Metallotermiya i elektrokhimiya titana, 145 - 152

TEXT: The design is described of a pilot-scale cell for electrolysis of TiCl₄ in fused chlorides. Operation was continuous with a molten alloy cathode and a graphite anode. The Ti formed on the cathode surface and was periodically removed by ladles moving between cathode and anode. The bath consisted of a welded, water-cooled housing lined with chamotte brick to a wall thickness of 130 -150 mm. Reference is also made to other cells designed by the author and collaborators, namely an electrolytic cell with extractable cathode and stationary compartment (Ref. 10: Avtorskaya zayavka Card 1/2

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21035 S/598/61/000/006/020/034 Electrolysis of titanium tetrachloride.. D245/D303

B prioritetom ot 10/V 1956 g., no. 461408) and with reversible cathodes (No. 461772). The chief drawbacks of the design proposed were the lack of an effective means of feeding TICl4 to the electrolyte and the unsatisfactory hermetic sealing of the cell. There are 1 figure and 11 references: 2 Soviet-bloc and 9 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: M.E. Sibert and M.A. Steinberg, J. Metals, 1956, v. 8, no. 9, 1162-8; American Metal Market, 1957, v. 64, no. 101, 1; Metal Bull. 1957, no. 4200, 28; J. Burges, G. Brown, C. Roberts, J. Appl. Chem., 1958, v. 8, no. 1, 6.

Card 2/2

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THE POP DESIGNED BEAM PRODUCTION

s/081/60/000/015/001/014 A006/A001 Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 15, p. 15, # 60232 Mal'tsev, A.A., <u>Kuzyakov, Yu.Ya.</u>, <u>Tatevskiy</u>, V.M. (I) Mal'tsev, A.A., <u>Vinokurov</u>, V.G., <u>Tatevskiy</u>, V.M. (II) AUTHORS: Study of Electron Spectra and of the Isotopic Effect in Oxygen Boron Compounds. I. & Bands of BO Molecules. II. "Boric Acid" TITLE: Bands PERIODICAL: Fiz. sb. L'vovsk. un-t, 1957, No. 3 (8), pp. 475-480; 480-485 I. A $II \oplus (-3 \text{ (DFS-3) spectrograph (2A/mm_dispersion) was used to$ investigate the emission spectrum of BO β -bands (B² Σ - X² Σ transition) in the arc and a discharge tube with a hot hollow cathode containing B_2O_3 . Rotation analysis of 0 = 0, 0 = 1, 0 = 2, 0 = 3, 1 = 4, 1 = 5, 2 = 5, 2 = 6, and tion analysis of 0 = 0, 0 = 1, 0 = 2, 0 = 9, 1 = 4, 1 = 9, 2 = 9, 2 = 0, and 3 = 4 bands was made, and by the method of least squares the following rotational constants (in cm⁻¹) of the $B^2\Sigma$ state were obtained: Be = 1.5192, $\omega_e = 0.0210$, $D_e = 7.4 \cdot 10^{-0}$ and $\beta_e = 2.0 \cdot 10^{-0}$. It is shown that divergence of Sheibe's rotational constant values (Sheibe, Z. Phys., 1930, Vol. 60, p. 74) with those of Djenkins and McKellar (Djenkins, McKellar, Phys. Rev. 1932, Vol. 42, p. 464) Card 1/3

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Study of Electron Spectra and of the Isotopic Effect in Oxygen Boron Compounds. I. β -Bands of BO Molecules. II. "Boric Acid" Bands

can be explained by the inaccurate treating of experimental data by Sheibe. The method of least squares was used to recalculate Sheibe's data for the $X^2 \sum$ state. In all bands spin doubling was observed.

state. In all bands spin doubling was observed. II. Spectrographs with diffraction gratings were used to investigate so-called fluctuation bands of boric acid, located in the 3700 - 6800 A range. The following spectrum sources were used: a discharge tube with a hot hollow cathode v containing boron or boron anhydride in an atmosphere of He and O₂ mixture, and an oxygen-hydrogen flame into which boric acid solution was introduced. At a high resolution the complicated rotational structure with several edges was observed for the majority of bands. The use of boron concentrated to 85% with a B¹⁰ isotope, allowed the determination of isotope band edges, shifted towards the short-wave side by about 6,5 and 5 A respectively for bands in the 5450 and 5750 A range. This result rejects Singh's theory (Singh, N.L., Prcc. Indian Acad. Sci., 1949, Vol. A 29, p. 424) who relates the fluctuation bands of boric acid to the B0 molecule. According to Singh the isotopic bands must be shifted to the long-wave side by 22 and 44 A respectively. When introducing to the spectrum source heavy water vapors, no isotopic effect is revealed in the

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Basi Synchronomy of Sheetra and of the Isotopic Effect Mergen Boron Compands of Bonds of Bo Molecules, II. "Boric Acid" Bands. Itotuation bands of the boric acid. This indicates the absence of hydrogen in the molecule composition giving rise to these bands. It is assumed that the fluctuation bands of the boric acid belong to the multi-atomic oxygen compound of boron, B_xO_y. A. Mal'tser Translator's note: This is the full translation of the original Russian abstract.

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5 (3) AUTHORS:	Zagorevskiy, V. A., Zykov, D. A., SOV/79-29-7-43/83 Vinokurov, V. G.
TITLE:	Derivatives of Chromonecarboxylic-2-acid (Proizvodnyye khromon- karbonovoy-2-kisloty)
PERIODICAL:	Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2302 - 2306 (USSR)
ABSTRACT :	In the preceding paper (Ref 1) the synthesis of a number of aryl esters of the chromonecarboxylic-2-acid by means of the acid chloride of this acid was described. The acid chloride was prepared by reaction of thionyl chloride in a pyridine so- lution of the acid and the crude mixture used without purifica- tion. In the present investigation 15 new and different N-sub- stituted amides as well as some other derivatives of the chro- monecarboxylic-2-acid were synthesized in search of pharmacolo- gically active compounds (Table). All the substances (I)-(XV) were synthesized by reaction of the acid chloride on the above acid with the corresponding amino, oxy, and mercapto deriva- tives. The crude acid chloride, obtained by the previously proposed method, was used for reaction in dichloro ethane so-
Card 1/2	lution. In every case, excepting (XIII)-(XV), sodium bicarbon-

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Derivatives of Chromonecarboxylic-2-acid

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ate was used to bind the HCl formed in the reaction. By synthesizing the aryl esters (XIII)-(XIV) it was demonstrated that the acylation of phenols with this acid chloride by the Schotten-Baumann method is possible. The compounds (VIII)-(XII) form water-soluble salts when treated with sodium carbonate or sodium bicarbonate (carboxyanilide (IX)). The relation between the color of the chromonecarboxylic-2-acid anilides and the kind of substituent in the benzene ring of the aromatic amino group is of interest. Thus, for instance, the anilide of the chromonecarboxylic-2-acid is colorless, the p-toluidide (II) light greenish-yellow. The p-methoxy-(III) and p-oxyis anilide (IV) are yellowish-green, whereas the anilides (VI) and (VII) are yellowish-orange or red. The aryl esters of the chromonecarboxylic-2-acid show similar effects. An explanation of this phenomenon will be the subject of further investigations. There are 1 table and 5 references, 4 of which are Soviet.

ASSOCIATION: Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR (Institute of Pharmacology and Chemotherapy of the Academy of Medical Sciences, USSR) SUBMITTED: June 5, 1958

Card 2/2

TO THE P

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CIA-RDP86-00513R001860020001-3"

5(3) AUTHORS:	Kochetkov, N. Z., Gottikh, B. P., SOV/20-125-1-23/07 Vinokurov, V. G., Khomutov, R. H.
TITLE:	On the Structure of β -Chlorovinyl Ketones and on the Stereochemistry of the Reaction of Ketovinylation (O konfiguratsii β -khlorvinilketonov i stereokhimii reaktsii ketovinilirovaniya)
PERIODICAL:	Doklady Akademii neuk SSSR, 1959, Vol 125, Nr 1, pp 89-92 (USSR)
ABSTRACT:	The structure of the substances mentioned in the title RCOCH=CHCl is, in spite of their vell elaborated utilization methods (Ref 1), still an unsolved problem. From the most important methods of production (Refs 2-4) it may be assumed that the substances produced in this way have a trans-structure The authors succeeded in clearly confirming experimentally this assumption. If one of the simple β -chlorovinyl ketones, methyl- β -chlorovinyl ketone is oxidized with sodium hypochlorite, the trans- β -chloro acrylic acid (Ref 5) forms under rigidly controllable conditions as the only product. If this oxidation does not contact the C-atoms with a multiple
Card $1/3$	binding, moreover, if the mild conditions of reaction exclude

On the Structure of β -Chlorovinyl Ketones and SOV/20-125-1-23/67 on the Stereochemistry of the Reaction of Ketovinylation

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the isomerization of the initial substance and the reaction product a complete transformation of the structure during the reaction is impossible. Due to this fact methyl-f-chlorovinyl ketone has to be regarded as a transisomer. Thus, also all alkyl-, alkenyl-, and aryl- β -chlorovinyl ketones (Refs 2-4) are transisomers under similar conditions. As far as the β -chlorovinyl ketomes (Refs 6, 7) produced by other methods are identical with those obtained by condensation with acetylene, they are obviously also transisomers. By the knowledge of the above structure the stereochemistry of the reaction mentioned in the title (Ref 1) could be observed. It is one of the most important reactions of eta -chlorovinyl ketones and is only a nucleophilic substitution of a halogen atom. Since the chemical methods cannot be used for determining the structure of the reaction products mentioned the authors used infra-red spectra. Although the authors mention only data on the ketovinylation of sulfinic acids and β -dicarbonyl compounds, they have little doubt that also in other cases (Ref 1) ketovinylation reaction leads to a formation of transisomers. In other words, the reaction takes place under

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On the Struct on the Stereod	are of β -Chlorovinyl Ketones and SOV/20-125-1-23/67 chemistry of the Reaction of Ketovinylation
	preservation of the structure of the keto-vinyl group of the initial β -chlorovinyl ketone. This preservation may be explained by the substitution mechanism of the halogen (Ref 1, see Scheme) suggested by the author mentioned first. There are 3 figures and 16 Soviet references.
ASSOCIATION:	Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR (Institute of Pharmacology and Chemotherapy of the Academy of Medical Sciences, USSR)
PRESENTED:	December 1, 1958, by A. N. Hesmeyanov, Academician
SUBMITTED:	November 29, 1958
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PUSHKOV, V. G.; VINOKUROV, V. G.

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Steelmakers from the Urals are striving to make use of internal potentialities in the industry. Metallurg 7 no.11:11-13 N '62. (MIRA 15:10)

1. Sverdlovskiy sovet narodnogo khozyaystva.

(Ural mountain region -- Iron and steel plants)



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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860020001-3 PA 227754 VINOKUROV, V. G. USSR/Mathematics - Modern Algebra, 1 Aug 52 Biorthogonal Systems "Biorthogonal Systems That Pass Through Given Subspaces," V.G. Vinokurov, Cen Asia State U "Dok Ak Nauk SSSR" Vol 85, No 4, pp 685-687 A basis (z_i) is said to pass through a subspace P if P contains a subsequence which is contained in P and which is the basis of P, where P is a subspace of Banach space E and sequence (z_i) is complete in E. Submitted by Acad A.N. Kolmogorov 19 May 52. 227154

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24(7) p 3 PHASE I BOOK EXPLOITATIO	DM S07/1365
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Materialy X Veescyuzhogo soveshchaniya po sp Molekulyarnaya spectroshopiya (Papers of Conference on Spectroscopy, Vol. 1: Molec [L'voy] Izd-vo L'vovskogo uniy-ta, 1957, printed. (Series: Ita: Fisychnyy sbirny	cular Spectroscopy)
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Card 1/30	cidal Sciences.
Kolesova, V.A. Vibrational Spectra of Doubl Phosphate Glasses and Some Crystalline Ph	le-component lesphates 461
Hal'tsev, A.A., Ye. N. Moskvitins, and V.M. Study of the Isotopic Effect and Verifica Infrared Spectrum of Boron Trifluoride	Tatevakiy. ation of \$65
Mal'tsev, A.A., Ye. M. Moskvitina, and V.M. Quantitative Analysis of Boron Isotopes b of Infrared Spectra of Boron Trifluorides Mal'tsev, A.A., Yu. Ya. Rusyakov, and V.M. T Study of Electron Spectra and Yakovie	472
Study of Electron Spectra and Isotopie Ef. in Boron Oxygen Compounds	reet
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Mal'tsev, A.M., V.G. Vinchurov, and V.M. Tat. Study or Electron Spectre and Isotopic Ef Boron Oxygen Compounds	evakly. Toot in
Card 29/30	480

VINORORO	V., V (~. 20-5-3/67
AUTHOR	VINOKUROV V.G.
TITLE	
PERIODICAL	Doklady Akademii Nauk SSSR 1997, VOI 119, 00 97 71 997
ABSTRACT	$\Delta = \{\omega\}$ and the quantity
1	ϕ of the functions $\varphi(t)$ with values in scale given, note that the functions $\varphi(t)$ with values in scale given, not the function $\varphi(t)$ also be contained in ψ .
	When on ϕ the BOREL field of the probabilities 1 is given, the
	author defines in the paper under levice i.e. On ϕ the trans-
م	formation T φ (t) = φ (t+1) is defined. Then follows a whole formation T φ (t) = φ (t+1) is defined. Then follows a whole
	defined to be of the MARKOV kind, when at all t and almost every-
	A $\in O_{(t)}^{\dagger}$ the equation $P(A \varphi_{(t)}) = P(A \varphi_t)$ is valid almost every-
	where on ϕ . Let $S = \int_{t} \mathcal{X}(t)$ and let S always contain a constant /S contains only one regular
	function. The paper under review denote s a process as regular when function. The sense of regularity consists in the circumstance
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16(1); 16(2 AUTHOR:	Vinokurov, V.G.	06378 SOV/166-59-5- 5/9
TITLE:	On Probability Proceases Giv	
PERIODICAL:	Izvestiya Akademii nauk Uzbe matematicheskikh nauk, 1959,	kskoy SSR, Seriya fiziko-
ABSTRACT :		robability measure P defined on the sets. Let from A CB, B $\in Q^{\Omega}$ and A) = 0. The probability process ndom variables ξ_t defined on Ω and which runs through the set T. Let ϕ) given on T. The author investigate litions for almost all functions $\varphi(t$ that $\xi_t(\omega) = \varphi(t)$. The author fundamental process and a process he gives necessary and sufficient of the desired $\omega \in \Omega_{\bullet}$. There is
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16(1) 16. AUTHOR:	2KOU Vinokurov, V.G.		sov/20-129-1-1/€4	
TITLE:	Generalized Lebesg	ue Spaces	N. 4 0 11 (1199)	2)
PERIODICAL:	Doklady Akademii n	auk SSSR, 1959, Vol 129),Nr 1,pp 9=11 (0550	ana Ce
ABSTRACT:	According to the a E with a complete points x,y \in E ther y \in A, and 3) the f measurable decompo of V.A.Rokhlin / F Starting from an o representations of measure) the author Lebesgue spaces ar	uthor a generalized i measure m, where 1) r e exists a measurable factor space of E with osition of E is a Lebe def 1_7. other definition (with f a Boolean algebra w or investigates the p and shows that they ar	The beside space is a nE = 1, 2) to every the set A so that $x \in A$ the respect to every respue space in the set the aid of certain the aid of certain the a finite-addition roperties of general the near connect me properties of pro-	two A, sense n ve lized ion with obability
Card 1/1	theoretical proces There are 5 refere	ences, 3 of which are	Soviet, 1 American	, and
ASSOCIATION	nauk Uzb SSR (Ins	ki i mekhaniki imeni titute of Mathematics	V.I.Romanovskogo Ak and Mechanics imen	ademii i V.I.
PRESENTED:	Romanovskiy, AS Uz May 18, 1959 by A.	N. Kolmogorov, Academ	ician	12
SUEMITTED:	May 18, 1959			
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Spaces with a measure of continual weight. Dokl. AN SSCE 163 no.6:1307-1309 Ag 165. (MIRA 18:8)

1. Institut matematiki im. V.I.Romanovskogo AN UzSSR. Submitted February 10, 1965.

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VINOKUROV, V.G. Continuous product of Lebesgue spaces. Dokl. AN SSCR 162 no.21255-257. My 165. (MIRA 13:5) 1. Institut matematiki im. V.I.Romanovskogo AN UzSSR.

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Representations of partially ordered sets, and topological spaces, Izv. AN Uz.SSR, Ser. fiz.-mat. nauk 7 no.5:5-13 '63. (MIRA 17:8) 1. Institut matematiki imeni V.I. Romanovskogo AN UzSSR.

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VINOKUROV, V.G.; TROITSKAYA, V.S.; GRANDBERG, I.I.; PENTIN, Yu.A.

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Pyrazoles. Part 39: Structure and tautomerism of hydroxypyrazoles Zhur. ob. khim. 33 no.8:2597-2605 Ag '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

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Pyrazoles. Part 44: Tautomerism of hydroxy and amire pyrazole systems, classification of intramolecular effects and structure of bifunctional pyrazole derivatives. Zhur. ob. khim. 35 no.7: 1288-1293 Jl '65. (MIRA 18:8)

1. Institut farmakologii i khimioterapii AMN SSSR i Moskovskiy gosudarstvennyy universitet.

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VINOKUROV, V.G.; TROITSKAYA, V.S.; GRANDBERG, I.I.

Pyrazoles. Part 41: Infrared spectra and tautomerism in the aminopyrazole series. Zhur.ob.khim. 34 no.2:654-660 F '64. (MIRA 17:3)

1. Institut farmakologii i khimioterapii AMN SSSR i Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

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CIA-RDP86-00513R001860020001-3"

POPOVA, R.Ya.; PROTOPOPOVA, T.V.; VINOKUROV, V.G.; SKOLDINCV, A.P.

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Functional derivatives of malodnialdehyde and their reactions. Part 14: Condensation of some allyl halides with vinyl ether. Zhur.ob.khim. 34 no.1:114-119 Ja '64. (MIRA 17:3)

1. Institut farmakologii i khimioterapii AMN SSSR.

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VINOKUROV, V.G.

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Topological properties of partially ordered sets. Usp. mat. nauk (MIRA 16:12) 18 no.5:151-155 S-0 '63.

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	VINOKUROV, V.G.; TROITSKAYA, V.S.; SOLOKHINA, N.D.; GRANDBERG, I.I.
	Pyrazoles. Part 31: Infrared spectra of 4-acylpyrazoles, their salts and metal derivatives. Zhur.ob.khim. 33 no.2: 506-511 F '63. (MIRA 16:2)
	l. Institut farmakologii i khimioterapii AMN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Pyrazole-Absorption spectra)

GRANDBERG, I.I.; VINOKUROV, V.G.; PROITSKAYA, V.S.; SHAROVA, G.I. Pyrazoles. Part 30: Synthesis and ultraviolet spectra of 4-acetyl- and 4-benzoyl-3,5-dimethylpyrazoles. Zhur.ob.khim. (MIRA 15:11) 32 no.11:3582-3586 N '62. 1. Moskovskiy gosudarstvennyy universitet i Institut farmakologii i khimioterapii AMN SSSR. (Pyrazole-Spectra) 1 1

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KUZNETSOVA . Ye.A.; SVETLAYEVA . V.M.; ZHURAVLEV, S.V.; VINOKUROV, V.C.; TROITSKAYA, V.S.; Prinimala uchastiye SOLOKHINA, N.D.

> Synthesis and properties of 2-mercaptobensothiazole derivatives. Part 1: Some S-substitute' 2-mercaptobenzothiazoles and their sulfones. Thur.ob.khim. 32 no.9:3007-3011 S 162. (MIRA 15:9)

1. Institut farmakologii i khimioterapii AMN SSSR. (Benzothiazole) (Sulfones)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860020001-3 **WINESS** **.** VINOKUHOV, V.G. (Tashkent) Representations of Boolean algebras and measurable spaces. Mat. sbor. 56 no.3:375-391 Mr 162. (Algebra, Boolean) (Spaces, Generalized) (MIRA 15:4)
VINOKUROV, V.G.; TROITSKAYA, V.S.; ZAGOREVSKIY, V.A.

Spectral colors in the series of derivatives of 2-chromonecarboxylic acid. Zhur.ob.khim. 31 no.9:2901-2995 5 '61. (MIRA 14:9)

1. Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR.

(Chromonecarboxylic acid--Spectra)

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AUTHOR: Vinokurov, V. G. (Tashkent)

TITLE: Representations of Boolean algebras and spaces with measure

PERIODICAL: Matematicheskiy sbornik, v. 56(98), no. 3, 1962, 375 - 391

TEXT: A finitely additive non-negative function m which is given on a Boolean algebra $\frac{1}{2}$ and equal to unity in the unit element of $\frac{1}{2}$ is said to be a measure belonging to $\frac{1}{2}$. A representation $\frac{1}{2}$, R, Vi of $\frac{1}{2}$, m; consists of a set E, of the algebra R of the subsets of E, and of a homomorphism V of the algebra $\frac{1}{2}$ onto the algebra R, which satisfies the following conditions: 1. For arbitrary two points x and y of E, there is such an A:R that x(A,y); 2:For each big $\frac{1}{2}$ with mb>0, the set Vb does not vanish. A subset W of $\frac{1}{2}$, which has the property that $a \cdot b \neq 0$ and $a \cdot b \cdot W$ for $a \cdot W$ and biW, is said to be a lattice. For each element $b \in \frac{1}{2}$, there is a set B which consists of all maximal lattices containing b. All these sets B constitute an algebra R. V is the corresponding isomorphism between $\frac{1}{2}$ and R. A representation $\left\{ E_c, R_c, V_c \right\}$ is said to be maximal. For two representations Card $\frac{1}{3}$

· 在上述是中国大学生的主义。

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Representations of ...

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 $\{E_1, R_1, V_1\}$ and $\{E_2, R_2, V_2\}$ and an arbitrary subset T of \mathscr{F} , the set of all the maximal lattices W for which there is such a lattice $W \oplus T_c E_1$ that $W \oplus T = W'$, but no lattice $W' \oplus T_c E_2$ such that $W \oplus T = W' \oplus T$, is designated by $A_{E_2}^{E_1}(T, \mathscr{L})$. A representation $\{E_1, R_1, V_1\}$ is said to be subordered to a representation $\{E_2, R_2, V_2\}$ if for an arbitrary subalgebra $T \oplus \mathscr{L}$ there is a subalgebra $T' \oplus \mathscr{L}$ such that $T \oplus T'$ and $A_{E_2}^{E_1}(T'', \mathscr{L})$ has the measure zero in the space produced by $\{\mathscr{L}, \mathfrak{m}\}$ for each subalgebra $T' \oplus T'$. The concept of subordering of representations is the most important concept of the paper. The

dering of representations is the most important concept of the paper. The metrical structure of representations is invariant under the procedure of subordering. Therefore, this procedure leads to a classification of the metrical types of representations and spaces produced by representations. There are 8 references: 5 Soviet and 3 non-Soviet. The reference to the English-language publication reads as follows: P. R. Halmos, J. v. Heumann, Operator methods in classical mechanics. II, Ann. of Math., <u>43</u>, no. 2 Card 2/3

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VINOKUROV, V.G.; TROITSKAYA, V.S.; ZAGOREVSKIY, V.A.

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Absorption spectra of derivatives of 2-chromonecarboxylic acid in the ultraviolet and visible. Zhur. ob. khim. 31 no.4: 1079-1082 Ap '61.

1. Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR.

(Benzopyrancarboxylic acid--Spectra)

关于我们是在《新教室》的记忆中期 P 484

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CIA-RDP86-00513R001860020001-3 the there is a second second to the second second

8/044/60/000/012/012/014 16,8000 0 111/ 0 333 AUTHOR: Vinokurov. V. G. A problem of control theory TITLE: PERIODICAL: Referativnyy shurnal, Matematika, no. 12, 1960, 142, abstract 14213. (Tr. In-ta matem. i mekham. AN Us SSR, 1957, vyp. 20, 5-4) The author considers the problem of the assumption of a TEXT: statistical solution for the following general scheme. A certain object can be with probability measure P in an arbitrary point of the abstract space ϕ . The space ϕ is decomposed into a finite number of disjoint measurable sets ϕ ; on ϕ there are given nonnegative, integrable functions $r_i(x)$, where $r_i(x)$ is equal to the loss which must be suffered when the real state of the object is x_i , while it is assumed that the state of the object belongs, to Φ_{1} . A test is carried out and it is stated to which element of a certain decomposition f of the space the state of the object belongs. Let the decomposed into the sets ϕ_1^2 , where ϕ_1^3 are measurable sets which are sums of the elements §. Then the solution $x \in \phi_i$ is made if $x \in \phi_i^{\xi}$. Under fixed Card 1/2

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٠, 22864 5/044/60/000/012/012/014 A problem of control theory C 111/ C 333 decomposition { one obtains a minimum of losses, if for almost allxE \$ it is satisfied: $M_i(x) = M(x)$, where $M_i(x) = M \left\{ r_i(x) | \right\}$, $\mathbb{H}(\frac{d}{d}) = \min_{\underline{1}} \mathbb{H}_{\underline{1}}(\underline{x}).$ Then, the author conviders the losses which are connected with the expenses of the test and investigates the question of the optimal solution under consideration of these losses relative to the set of all possible decompositions of the space Q. The given set is asyged onto the space 2 of the classes of decompositions s, in which a distance is introduced. The minimum value K() of the mathematical expectation of the losses for the decraposition 5 can be defined as X(s); $s \in Z$. It turns out that K(s) is a uniformly continuous function in Z. Then Z is embedded into a certain complete matric. space, \tilde{Z} . It is defined; the measure P is called saturated; $d\tilde{Z} = Z$. The Lebesgue measures in the sense of V. A. Rokhlin (Matem. sb. 1949, 25,1) are saturated measures. At the end of the article the example of a saturated measure which is no Lebesgue measure is given. [Abstracter's note: Complete translation] · • • Card 2/2

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CERTIFICATION CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR VINOKUROV, V.G.; TROITSKAYA, V.S.; KOCHETKOV, N.K. Cycloserine and related compounds. Part 11: Infrared spectra of 3-isoxazolidinones. Zhur. ob. khim. 31 no.1:205-210 Ja '61. (MIRA 14:1) 1. Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR. (Isoxazolidinone---Spectra) 'n ÷

VINOKUROV, V. I.

VINOKUROV, V. I.: "Investigation of methods of radiometry." Min Higher Education. Leningrad Electrical Engineering Inst imeni V. I. Ul'yanov (Lenin). Leningrad, 1956 (Dissertation for the Degree of Candidate in Technical Sciences)

So: Knizhnaya Letopis', No. 18, 1956

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VINOKUROV, V.I., inzhener; SVI, P.M.

Detection of defective insulators by means of radiation. Elektrichestvo no.11:86 N '56. (MIRA 9:12)

1. Leningradskiy elektrotekhnicheskiy institut imeni Ul'yanova (Lenina) (for Vinckurov) 2. Kontora po organizatsii i ratsionalizatsii rayonnykh elektrostantsii i seti (for Svi). (Electric insulators and insulation--Testing) (Radio measurements)

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Translation 1	from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 18, p 167 (USSR)
AUTHOR:	Vinokurov, V.I.
TITLE:	Devices for the Measurement of Fluctuating Signals
PERIODICAL:	Izv. Leningr. elektrotekhn. in-ta, 1957, Nr 31, pp 139 - 143
ABSTRACT: Card 1/2	A modulation type radiometer for the measurement of fluctuating signals in the 3-cm range is described. The longitudinal sensitivity of the radiometer is 2° at a time constant of 8 sec, which corresponds to a lowest measurable power of 10^{-16} watt. The input signal is modulated with the aid of a modulator consisting of a rectangular waveguide of 2 mm height, in the interior of which a G-10 type ferrite is placed. Modulation is effected by the alteration of absorption of the ferrite by a magnetizing field of a frequency of 175 keyoles; the modulation depth amounts to 75%. The modulated signal arrives at the balance mixer of the resonator type through a ferrite insulator possessing valve properties and weakening the noises of the receiver and the mixer,
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Devices for the Measurement of Fluctuating Signals

which reach the antenna. Further follows a pass frequency indicator (UPCh), tuned on a frequency of 60 Mc and having a pass band of 12 Mc, a selective low frequency indicator (UNCh) and a phase detector. The supply of the radiometer is effected by a stabilized rectifier.

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Franslation :	from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 18, p 167 (USSR)
AUTHOR:	Vinokurov, V.I.
ITLE:	Investigations of the Possibility of Temperature Telemetering of Heated Bodies With the Aid of Radiometers
PERIODICAL:	Izv. Leningr. elektrotekhn. in-ta, 1958, Nr 35, pp 157 - 165
ABSTRACT: Card 1/2	The full energy of radio emission received by the antenna of a radio- meter depends on the frequency band, the absorption coefficient of the heated body (B), the amplification factor of the antenna and the solid angle under which the surface of B is visible from the plane of the antenna opening. The power which is received by the radiometer is equivalent to the temperature increase of the emission resistance of the antenna which, generally, is determined by the integral value of the temperature of the B under investigation. The value of the equi- valent temperature of the parabolic antenna of 40 cm in diameter at an opening angle of 10^{-2} steradian is found. The smallest temperature
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I.I.L.

Investigations of the Possibility of Temperature Telemetering of Heated Bodies With the Aid of Radiometers

increment of a heated dielectric, which can be measured by the radiometer, amounts to approximately 25°C. The radio emission being radiated from the heated B is absorbed by a flame. The absorption magnitude, according to the author's data, amounts to a few tenths of decibel/cm. X

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SOURCE CODE: UR/0000/66/000/000/0020/0033 ACC NRI AT6022237 AUTHOR: Vinokurov, V. I.; Vakker, R. A. ORG: none TITLE: Using nonlinear elements in correlators SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya radiotekhniki. Doklady. Moscow, 1966, 20-33 TOPIC TAGS: signal correlation, correlation statistics, nonlinear effect ABSTRACT: The properties of a correlator based on a nonlinear element (detector) whose characteristic is described by the equation: $Z \coloneqq \begin{cases} ay^* \ y \ge 0, \\ 0 \ y < 0. \end{cases}$ are investigated. The S/N ratio at the output of this correlator is analyzed as a function of: reference signal whose amplitude is fairly large in comparison with the signals which follow, a signal whose relationship to the reference signal is nonstationary, and the external noise which is uncorrelated with the other two signals. The analysis assumes that the processes are confined to a narrow frequency band, are Gaussian with average value of zero, and have symmetrical spectra. The S/N of this correlator detector is compared to that of the ideal correlator. A loss coefficient

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is introduced which relates the S/N of the detectors with and without motor motor detection detection process for the cases when the input signal has a rectangular spectrum, w it is similar to that of a simple ringing circuit, and when it is similar to a band pass filter spectrum. Orig. art. has: 27 formulas and 6 tables.								
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REALIZERATION AND THE REAL PRODUCTS TO MANAGEMENT TO AN ADDRESS AND ADDRESS A
L.22426-66 EWT(d)/EWP(k)/EWP(1) ACC NR: AP6013622 AUTHOR: Bogoroditskiy, N, P.; Vinokurov, V. I.; Yermolin, N. P.; Lebedev, A. A.; Potsar, A. A.; Terenin, A. N.; Fremke, A. V. GRG: none
TITLE: Honoring the 70th birthday of Professor Boris Pavlovich Kozyrev
SOURCE: Elektrichestvo, no. 9, 1965, 89
TOPIC TAGS: academic personnel, electric engineering personnel, IR research, spectroscopy ABSTRACT: On 1 August 1965 was the 70th birthday of Honored Activist of Science and Engineering RSFSR, Laureate of the State Activist of Science and Engineering RSFSR, Laureate of the State Prize, Dr. Techn. Sci., Professor Boris Pavlovich Kozyrev. Pro- Prize, Dr. Techn. Sci., Professor Boris Pavlovich Kozyrev. Pro- fessor Kozyrev's life-work has been inseparably connected since fessor Kozyrev's life-work has been inseparably connected since fessor Kozyrev's life-work has been from the post of assistant v. I. Ul'yanov (Lenin), where he rose from the post of assistant v. I. Ul'yanov (Lenin), where he rose from the post of assistant Electrovacuum Engineering and Scientific Head of the Problems Electrovacuum Engineering and Scientific Head of the Problems Laboratory of Radiation Electronics and Vacuum Engineering. Boris Iaboratory of Radiation Electronics and Vacuum Engineering. Boris read of the vacuum engineering, optical electronics, and infra- tributions to vacuum engineering, optical electronics, and infra- red engineering. In 1950 he was awarded the State Prize for the development and introduction of photoptical amplification of Weak signals, which contributed to the expansion of research into UDC: 621.38:535

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spectroscopy and infrared engineering in the Soviet Union. The Problems Laboratory which he heads is one of the major Soviet centers of research into thermal radiation sensors which are successfully applied in spectroscopy, atmospheric optics, actinometry, limnology, and studies of the processes of photosynthesis. Professor Kozyrev has at various times been a member of or consultant to scientific and technical councils in different research institutes. He is the author of approximately 150 works and inventions. In addition he is an excellent educator, author of guides and textbooks, faculty dean, the mentor of a large number of graduate students, and a civic-minded person who takes an active part in political and social life. He is the holder of many medals, orders, and other awards. Orig. art. has: l figure. [JPRS] SUB CODE: 09, 20 / SUEM DATE: none

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	UR/0286/65/000/011/0110/012// CCE68ION NRI AP5017875 621.825 6
•	UTHOR: Kashchenko, I. H.; Krysin, B. T.; Kolpakov, Ya. V.; <u>Bmirnov</u> , <u>J. O.; Mikhaylovnkiy, V. Asi Tsytsenko, H. V.; Lebedeva, L. P.; Vinoy</u> Kurov, V. I.; Levin, H. H.; Edel'man, H. I.
+	Curov, V. I.; Levin, H. H. H. Free Strong Friction parts from powder components. FITLE: Method for producing friction parts from powder components. Class 47, No. 171702 SOURCE: Byulleten' isobreteniy i towarnykh snakov, no. 11, 1965,
	118-119 TOPIC TAGS: D sircraft brake, friction part, powder metallurgy
	ABSTRACT: An Author certificate has been issued for a method of pou- ducing friction parts (e.g., brake-unit parts) for aircraft from pou- der components. To reduce wear, the mixture contains 60-70% iron, 13-16% copper, 8-10% barium sulfate, 3-7% graphite; 3-5% asbestos, and 25% silicon oxide. The mixture is compact molded: at a pressure of 5.8 t/cm ² and sintered at a temperature of 1060C and a pressure [LB]
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π. A CHERT NORTH ALL ALL AND AUTHORY, Yu. Ya. Professor . Vinckurov, Y. I. TITLE: Increasing radiometer sensitivity by noise modulatics of in-12 put signers SOURCE: IVUZ. Radiotekhnika, v. 7, no. 3, 1964, 310-315 TOPIC TAGE: radiometer, periodic noise modulation, random noise modulation, gaussian noise, roise modulated radiometer, correlator, noise level reduction ABSTRACT: Radiometer sensitivity may be increased by random-noise modulation (instead of periodic - noise modulation) of its input signals and the subsequent invertion of a correlator based on the princi-pals and the subsequent invertion of a correlator based on the princi-join for long royatem with structure tarameters (see Fig. 1 of the box, but the termination of the and reference in ise are actived to) · · · · · · · · and the second second applied jointry to the detector. In addition to the set-ncise, white Card 1/3 FREE NEW YORK TO THE REPORT OF THE REPORT

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output. An used to elim represents a varied in the the variation but not with voltage at correlator noise-spect possible in power .evel	ries in time f-f amplifi anate disto a linear sys- ime with the cn of system r the set-no- the correlat in the wides rum density y with noise corresponden- th perioden- system the in the sign	e with the random noi er with properly sele rtion of the effect s tem in which the cond modulating signal. parameters are corre- bise. This results in tor output. Set-noise at band of a random for at the output accord for firstion of the ing the cycle with much atlen. This r	se appears at the detect cted frequency band is ignal. The correlator nuctivity of the detecto The effective signal ar clated between themselve h an increase of constant e is transformed by tre orm. This expansion of ing to the frequercy is input signal. The nois noise modulation is le caulted in a reduction hich corresponds to the rig. art. has: 3 figur	or nd es nt e sat
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ndidate of Technical Sciences, Docent); Makkaveyev,
of the power of small harmonic signals with the aid
ekhnicheskiy institut. Izv., no. 47, 1962, 63-72
meter, radiometer, null type modulation radiometer, noise power measurement, correlation function
ition radiometer is proposed for the measurement of harmonic signal by comparing it with the noise power . The detector of the apparatus receives alternately : (1) the intrinsic noise voltage and the measured (2) the intrinsic noise voltage and the fluctuating . The conditions under which the error signal at the aro are calculated by determining the correlation

