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AUTHORS: Rvachev,	A. L.; Drozdov, V. A.			48	
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TITLE: Film photo	voltaic cell. Class 21	, No. 174731			
SOURCE: Byulleten	' izobreteniy i tovarny	kh znakov, no.	18, 1965, 57		
TOPIC TAGS: photo detector	electric cell, semicond	ucting film, ph	otoconducting fi	lm, uv	
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ABSTRACT: This Au a high integral as	thor Certificate presen nsitivity with the maxi n a base of a combinati	mum in the ultr	aviolet region,	tne p-n	
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CCESSION NR: AP5017680	UR/0109/65/010/007/1358/1359 621.383.44	
UTHOR: Drozdov, V. A.; Kurmashev, Sh, D ITLE: C1S-Cu ₂ O photocells	.; <u>Rvachev, A. L.</u>	
OURCE: Radiotekhnika i elektronika, v.	10, no. 7, 1965, 1358-1359	
OPIC TACS: photocell, p n heterojunction	n, photovoltaic cell	
BSTRACT: A method of preparing pin hete	rojunction photocells is described. An	
lloy of CdS and 0.01% indium is deposite 10 ⁻⁵ mm Hg) on an oxidized (at 180C) cop	d by thermal evaporation in vacuum per substrate heated to 300C. The CdS	
hick and have a resistivity of 0.1 ohm c	to 950C. The deposited films are 2-5 μ m and a sensitive area of 1-4 cm ² . The	
eposition of an ohmic translucent alumin	um electrode on the CdS film completes the method maintain their stability at temper-	
tures up to 300C and illumination of 50,		
ime constant of 10 ⁻⁵ suc. Orig. art. ha		
SSOCIATION: none .		



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dov, V. A.; Kurmashe	v, Sh. D.; Ryache	(; A. L.	- 23	
al method of the for	mation of the p-n	transition 2		
SSR. Dol:lady, v. 16	2, no. 3, 1965, 5	30-531		
p-n-transition, rect	ification factor,	heterotransition,		
sulfide alloyed with me CdS films were 2.	i indium (0.01%) b 5 µ thick and had	y means of thermal a specific resista	nce of 0.1	
measurements were	nt had almost ohm	c volt-ampere char	acteristics and	
negligible photovolu nation of specimens 1) variations of the successive light pul	followed by dark short-circuit cu ses and their cor	Intervals. Curves we rent of the Cu_2O-Co responding dark intervals.	ervals; 2) the	
the maxima and mining for all light pulse	s during the ligh	t formation; and 3)	the volt-amper	e
	AP5014846 dov, V. A.; Kurmashe al-method of the for SSR. Doklady, v. 16 p-n-transition, rect Results of an investi sulfide films are pre- sulfide alloyed with The CdS films were 2 measurements were 1 ior to light treatments negligible photovolther nation of speciments 1) variations of the successive light pul	AP5014846 dov, V. A.; Kurmashev, Sh. D.; Ryachev al method of the formation of the p-n SSR. Doklady, V. 162, no. 3, 1965, 5 p-n-transition, rectification factor, Results of an investigation of the p-n sulfide films are presented. An oxidi sulfide alloyed with indium (0.01%) b The CdS films were 2.5 µ thick and had measurements were performed at room ior to light treatment had almost ohm negligible photovoltaic effect. The nation of specimens followed by dark for 1) variations of the short-circuit cur successive light pulses and their cor	AP5014846 dov, V. A.; Kurmashev, Sh. D.; Ryachev, A. L. al method of the formation of the p-n transition SSR. Doklady, v. 162, no. 3, 1965, 530-531 p n transition, rectification factor, heterotransition, Results of an investigation of the p-n transition between sulfide films are presented. An oxidized copper substrat sulfide alloyed with indium (0.01%) by means of thermal The CdS films were 2.5 µ thick and had a specific resistant measurements were performed at room temperature. Fresh ior to light treatment had almost ohmic volt-ampere char negligible photovoltaic effect. The light formation cons nation of specimens followed by dark intervals. Curves w 1) variations of the short-circuit current of the Cu ₂ O-Co	dov, V. A.; Kurmashev, Sh. D.; Ryachev, A. L. 23 al method of the formation of the p-n transition B

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ACCESSION NR: AP5014846		dilumination of the photo-
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of times.	and amonstrated by one	
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rectifying factor increas	pecimens during light). The q sed from 1.5-2 to 10 ⁴). The q ight formation do not deteriors the influence of outside facto	rs. Orig.: art. uhad: "3 figures.
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L 36935-66 EWT(m)/EWP(t)/ETI IJP(c) JD A.C NR: AP6023416 SOURCE CODE: UR/0139/66/000/003/0080/0082 AUTHOR: Drozdov, V. A.; Kurmashev, Sh. D.; Rvachev, A. L. ORG: Odessa Polytechnic Institute (Odesskiy politekhnicheskiy institut) UITILE: On the short-wave sensitivity of photovoltaic elements on the basis of cadmium sulfide γ SOURCE: IVUZ. Fizika, no. 3, 1966, 80-82 TOPIC TAGS: cadmium sulfide, photoelectric cell, photoelectric effect, oxygen, photovoltaic effect, vacuum chamber, high vacuum, radio wave photovoltaic effect, vacuum is maintained during the preparation of a CdS-Cu photo- ABSTRACT: If a high vacuum is maintained during the preparation of a CdS-Cu photo- ABSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained during the preparation of a cdS-Cu photo- ADSTRACT: If a high vacuum is maintained water is photo- ADSTRACT: If a high vacuum is photo- ADS	<u>☆恐和</u> 、
voltaic element, the back supplementary maximum at 420 µm. This short wave 400-500 µm range, with a supplementary maximum at 420 µm. This short wave to use of a photovoltaic to use of a photovoltaic element obtained by the thermal observations were made with the use of a photovoltaic element obtained by the thermal observation of cadmium sulphide onto a copper-clad glass substrate and covered with a evaporation of cadmium sulphide onto a copper-clad glass substrate and covered with a evaporation of cadmium film. The whole process was performed in a vacuum chamber semitransparent aluminum film. The whole process was performed cell, through a semi- at 10^{-5} mm Hg. At frontal illumination of the vacuum-prepared cell, through a semi- transparent copper film, the element showed a similar sensitivity to 400-500 µm transparent copper film, the element the phenomenon to 1) the damping of short-wave wavelengths. The authors attribute the phenomenon to 1) the damping of short-wave bination of carriers, and 2) an increase of long-wave sensitivity caused by the pene- bination of carriers, and 2) an increase of long-wave sensitivity caused by the pene- bination of carriers attribute the phenomenon to 1.	

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L 35975-66 EWT(m)/EWP(t)/ETI IJP(c) JD ACC NR:AP6016043 (A) SOURCE CODE: UR/0185/66/011/005/0507/0510	
AUTHORS: Den'ha, E. M Den'ga, E. M.; Buhriyenko, V. I Bugriyenko, V. I.; Rvachov, O. L Rvachev, A. L. B	
ORG: Odessa Polytechnic Institute (Odes'kyy politekhnichnyy instytut)	
TITLE: Photoconductivity mechanism of sintered films with a cadmium sulfide base $\frac{1}{2}$ SOURCE: Ukravins'kyy fizychnyy zhurnal, v. 11, no. 5, 1966, 507-510	
TOPTIC TAGS: cadmium sulfide, photoelectric property, photoconductivity photosensitivity, cadmium sulfide film Stmicowoucrows Furn	•
ABSTRACT: Photoelectric properties of sintered films with a cadmium sulfide base have been investigated. It is shown that the photocon- ductivity of coagulated films is determined by the volume of cadmium sulfide microcrystals. Great photosensitivity of the films is attainable only within a narrow temperature range of sintering, which attainable only within a narrow temperature range of sintering, which in some cases reaches 1010. Samples with high stable photosensitivity in the UV spectral zone (350420 nm) were obtained. Orig. art. has: 2 [NT]	
figures. SUB CODE: 11, 20/ SUBM DATE: 13Jul65/ ORIG REF: 003/ OTHER REF: 007	-
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L 20096-65 EWT(d)/BET/EED-2/EWP(1) Po-L/Pg-L/Pg-L/Pg-L/Pk-L IJP(e)/AFMD(p)/ESD(t)/ ACCESSION NR: AP4049563 RAEM(1)/RAEM(d)/ESD(dp)\$70315/64/000/001/0053/0053 BB/CQ AUTHOR: Antonova, M. K.; Kleynerman, G. [:: Rvachev, L. A. TITLE: Building up a dictionary for machine translation <i>UC B</i> SOURCE: Nauchno-tekhnicheskaya Informatsiya; no. 1, 1964; 53 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational articles from English into Russian. The first step in the work was done by lin- articles from English into Russian. The first step in the work was done by lin- English equivalents. The second step involved punching cards for a number of English and Russian exts which were in exact 1-1 correspondence with one another, English and Russian iexts which were in exact 1-1 correspondence with one another, English and Russian iexts which were in exact 1-1 correspondence with one another, English and Russian iexts which were in exact 1-1 correspondence with one another, English and Russian iexts which were in exact 1-1 correspondence with one another, English and Russian iexts which were in exact 1-1 correspondence with one another, English and Russian iexts which were in exact 1-1 correspondence with one another, approximations of various kinds, made in the dictionary. "VINITL associates VM. Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko and Yu. M. Ending processed the texts." ASSOCIATION: Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for Electrosimulation, VINITL, AN SSSR)	L 20096-65 EWT(d)/BTT/EED-2/EWP(1) Po-L/Pg-L/Pg-L/Pg-L/Pg-L/Pg-L/Pg-L/Pg-L/Pg	用"自己有有意思"的是"推荐自己的是"和"自己的是"和"		E CONTRACTOR OF CONTRACTOR
AUTHOR: <u>Antonova, M. K.; Kleynerman, G. J.; Rvachev, L. A.</u> TITLE: Building up a dictionary for <u>machine translation</u> <i>for</i> <u>B</u> SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 1, 1964, 53 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational articles from English into Russian. The first step in the work was done by lin- guists who prepared lists of technical words and symbols with exact Russian- glish equivalents. The second step involved punching cards for a number of English equivalents. The second step involved punching cards for a number of english and Russian texts which were in exact 1-1 correspondence with one another, approximations of various kinds, made in the dictionary. "VINITI associates VM. Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko and Yu. M. Emdina processed the texts." ASSOCIATION: Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for Electrogimulation, YINITI, AN SSSR)	AUTHOR: Antonova, M. K.; Kleynerman, G. 1: Rvachev, L. A. TITLE: Building up a dictionary for machine translation K. SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 1, 1964, 53 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational articles from English into Russian. The first step in the work was done by lin- guists who prepared lists of technical words and symbols with exact Russian glish and Russian texts which were in exact 1-1 correspondence with one another, English and Russian texts which were in exact 1-1 correspondence with one another, and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The dictionary. "VINITI associates V. M. approximations of various kinds, made in the dictionary. "VINITI associates V. M. Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko and Yu. M. Emdina processed the texts." ASSOCIATION: Laboratoriya Elektromodelirovaniya VINITLAN SSSR (Laboratory for Electrosimulation, YINITI, AN SSSR)	L 20096-65 EWT(d)/B	ХГ/ЕЕD-2/ЕмР(1) Ро-Ц/Рс-Ц/Рg-Ц/Рк-Ц IJP(с)/AFMD(р)/ESD(t) иба ваЕм(1)/RAEM(d)/ESD(ср) S/0315/64/000/001/0053/0053 BB/CO	1
TITLE: Building up a dictionary for machine translation 160. SOURCE: Nauchno-tekhnicheskaya Informatsiya; no. 1, 1964, 53 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation, The first step in the work was done by linarticles from English into Russian. The first step in the work was done by linarticles from English into Russian. The first step in the work was done by linarticles from English into Russian. The first step in the work was done by linarticles from English into Russian. The first step in the work was done of English equivalents. The second step involved punching cards for a number of English and Russian lexts which were in exact 1-1 correspondence with one another, English and Russian lexts which were in exact 1-1 correspondence with one another, and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, M. A. Rodionova. E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. M. Laboratoriya Elektromodelirovaniya VINITLAN SSSR (Laboratory for Electrosimulation, YINITL, AN SSSR)	<pre>TITLE: Building up a dictionary for machine translation 160</pre>	ACCESSION NK: AF4043	A Duachey 1. As	
TITLE: Building up a dictionary for machine translation 160. SOURCE: Nauchno-tekhnicheskaya Informatsiya; no. 1, 1964, 53 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation, The first step in the work was done by linarticles from English into Russian. The first step in the work was done by linarticles from English into Russian. The first step in the work was done by linarticles from English into Russian. The first step in the work was done of technical words and symbols with exact Russian-guists who prepared lists of technical words and symbols with exact Russian-guists which were in exact 1-1 correspondence with one another, English and Russian i.exts which were in exact 1-1 correspondence with one another, English and Russian i.exts which were in exact 1-1 correspondence with one another, and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, M. A. Rodionova. E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. Molonina processed the texts." Association: Laboratoriya Elektromodelirovaniya VINITLAN SSSR (Laboratory for Electrosimulation, VINITL, AN SSSR)	<pre>TITLE: Building up a dictionary for machine translation 160</pre>	AUTHOR: Antonova, M.	K.; Kleynerman, G. I.; Kvacnev, C.	2-14 - 7-5-14
SOURCE: Nauchno-tekhnicheskaya Informatsiya; no. 1, 1904, 23 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a ABSTRACT: The paper describes the steps which went into the preparational glossary for machine translation of technical and mathematical computational glossary for machine translation of technical words and symbols with exact Russian- guists who prepared lists of technical words and symbols with exact Russian- glish and Russian texts which were in exact 1-1 correspondence with one another, English and Russian texts which were in exact 1-1 correspondence with one another, and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The dictionary. "VINITI associates V. M. approximations of various kinds, made in the dictionary. V. S. Tkachenko-and Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko-and Mikhaylov, Laboratoriya Elektromodelirovaniya VINITI AN SSSR (Laboratory for Electrosimulation, YINITI, AN SSSR)	SOURCE: Nauchno-tekhnicheskaya Informatsiya; no. 1, 1904, 23 TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation of technical words and symbols with exact Russian- guists who prepared lists of technical words and symbols with exact Russian- glish equivalents. The second step involved punching cards for a number of English and Russian texts which were in exact 1-1 correspondence with one another, English and Russian texts which were in exact 1-1 correspondence with one another, approximations of various kinds, made in the dictionary. "VINITI associates V. M. Mikhaylov, L. M. Lomynosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko-and Mikhaylov, L. M. Lomynosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko-and Mikhaylov, L. Aboratoriya Elektromodelirovaniya VINITI AN SSSR (Laboratory for Electrosimulation, YINITI, AN SSSR)	TITLE: Building up &	a dictionary for machine translation 160	
TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation of technical words and symbols with exact Russian- guists who prepared lists of technical words and symbols with exact Russian- glish equivalents. The second step involved punching cards for a number of English and Russian texts which were in exact 1-1 correspondence with one another; English and Russian texts which were in exact 1-1 correspondence with one another; and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The third step consisted of correcting approximations of various kinds, made in the dictionary. "VINITI associates V. M. <u>Automations of various kinds</u> , <u>M. A. Rodionova</u> , E. G. Sokolova, V. S. Tkachenko and <u>Mikhaylov</u> , <u>L. M. Lomonosova</u> , <u>M. A. Rodionova</u> , E. G. Sokolova, V. S. Tkachenko and <u>Mikhaylov</u> , Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for <u>Electrosimulation</u> , <u>VINITL</u> , <u>AN SSSR</u>)	TOP: TAGS: machine translation, dictionary, glossary ABSTRACT: The paper describes the steps which went into the preparation of a ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation of technical words and symbols with exact Russian- guists who prepared lists of technical words and symbols with exact Russian- glish equivalents. The second step involved punching cards for a number of English and Russian texts which were in exact 1-1 correspondence with one another; English and Russian texts which were in exact 1-1 correspondence with one another; and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko and Mikhaylov, Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for ASSOCIATION: Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for Electrosimulation, VINITL, AN SSSR)		hnicheskaya Informatsiya; no. 1, 1964, 53	
ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation of technical and mathematical computational articles from English into Russian. The first step in the work was done by lin- articles from English into Russian. The first step in the work was done by lin- guists who prepared lists of technical words and symbols with exact Russian- guists who prepared lists of technical words and symbols with exact Russian- guists equivalents. The second step involved punching cards for a number of English equivalents. The second step involved punching cards for correcting and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The dictionary. "VINITL associates V. M. approximations of various kinds, made in the dictionary. V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, Electromodelirovaniya VINITL AN SSSR (Laboratory for ASSOCIATION: Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for Electrosimulation, VINITL, AN SSSR)	ABSTRACT: The paper describes the steps which went into the preparation of a glossary for machine translation of technical and mathematical computational glossary for machine translation of technical and mathematical computational articles from English into Russian. The first step in the work was done by lin- articles from English into Russian. The first step in the work was done by lin- guists who prepared lists of technical words and symbols with exact Russian- guists who prepared lists of technical words and symbols with exact Russian- guists equivalents. The second step involved punching cards for a number of English equivalents. The second step involved punching cards for correcting and used the standard words and symbols. The third step consisted of correcting and used the standard words and symbols. The dictionary. "VINITL associates V. M. approximations of various kinds, made in the dictionary. V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, M. A. Rodionova, E. G. Sokolova, V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, M. A. Rodionova, V. S. Tkachenko and Mikhaylov, L. M. Lomonosova, Elektromodelirovaniya VINITL AN SSSR (Laboratory for ASSOCIATION: Laboratoriya Elektromodelirovaniya VINITL AN SSSR (Laboratory for Electrosimulation, VINITL, AN SSSR)		translation, dictionary, glossary	
		ABSTRACT: The paper glossary for machine articles from Englis guists who prepared English equivalents English and Russian and used the standar approximations of va Mikhaylov, L. M. Loo Yu. M. Emdina proces	describes the steps which went into the preparation of a translation of technical and mathematical computational sh into Russian. The first step in the work was done by lin- lists of technical words and symbols with exact Russian- lists of technical words and symbols with exact Russian- the second step involved punching cards for a number of texts which were in exact 1-1 correspondence with one another iexts which were in exact 1-1 correspondence with one another iexts which were in exact 1-1 correspondence with one another iexts which were in exact 1-1 correspondence with one another iexts which were in the dictionary. "VINITI associates V. arious kinds, made in the dictionary. "VINITI associates V. arious kinds, made in the dictionary. V. S. Tkachenko an seed the texts."	r.



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MARTYNOV, A.V., inzh.; PRODYANSKIY, V.M., kand. tekhn. nauk, dotsent; KURGUZOV, V.V., RVACHEV, L.I.

> Distribution of static pressure in a cooling vortex pipe. Izv. vys. ucheb. zav.; energ. 8 no.1:115-118 Ja '65. (MIRA 18:2)

l. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedrov teploenergosnabzheniya promyshlennykh predpriyatiy.

APPROVED FOR RELEASE: 06/20/2000

1 37664-65 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1) Pd-1 5/0143/65/000/001/0115/0118 ACCESSION NR: AP5003328 AUTHOR: Martynov, A. V. (Engineer); Brodyanskiy, V. M. (Candidate of technical sciences, Docent); Kurguzov, V. V.; Rvachev, L. I. \mathcal{R} TITLE: Distribution of static pressure inside a cooled vortex tube SOURCE: IVUZ. Energetika, no. 1, 1965, 115-118 TOPIC TAGS: vortex tube cooled vortex tube ABSTRACT: The pressure was measured at eight 0.3-mm-diameter holes in a 28-mm vortex tube which had a 5x9-mm nozzle admitting gas helixwise. The pressures were measured at the wall and in the axis of the stream. A pressure curve for various $\mu = C_c/C_1$, where G_c and G_1 are the quantities of cold and initial gas, respectively, is shown. It is found that the lowest pressure (and the highest gas velocity) occurs at the point of emergence of gas from the nozzle. The pressure increases as the stream turns, and then droops. The initial Card 1/2

APPROVED FOR RELEASE: 06/20/2000



APPROVED FOR RELEASE: 06/20/2000

RVACHEV, V.D.

Relief and bottom sediments of the shelf off southwestern Greenland. Okeanologiia 3 no.6:1046-1055 '63. (MIRA 17:4)

1. Polyarnyy nauchno-issledovatel'skiy i proyektnyy institut morskogo rybnogo khozyaystva i okeanografii imeni Knipovicha.

APPROVED FOR RELEASE: 06/20/2000



SOV/124-57-5-6026 Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 145 (USSR) Rvachev, V.L. AUTHOR: Calculation of an Infinite Beam Lying on an Elastic Semi-infinite Space (Raschet beskonechnoy balki, lezhashchey na uprugom TITLE: poluprostranstve) Tr. 3-go Vses. matem. s"yezda, Vol I. Moscow, AN SSSR, 1956, PERIODICAL: p 210 Bibliographic entry ABSTRACT: Card 1/1

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TITLE:	On the Solution of one Problem in the Theory of Potential (K resheniyu odnoy zadachi teorii potentsiala)	1
PERIODICAL:	Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 2, pp 144 - 146 (USSR)	
ABSTRACT:	The solution of some problems in mathematical physics is reduced to finding in the space x0yz a harmonic function w(x,y,z) which possesses a constant value in a given sur- face S and vanishes at infinity. The author proposes a method ^o for an approximate solution of such a problem. It is assumed that $F(x,y,z,C) = 0$ is the equation of the sur- face family S of the level of a function $w = w(x,y,z)$, and the surface S belongs to the S-family. The function w_{y} defined as an implicit function of x,y and z from the equa- tion $F[x,y,z,C(w)] = 0$, is sought from the condition that	
	it satisfies the Laplace equation, i.e.: $\frac{\Delta F}{A} - \frac{\partial}{\partial c} \ln A - \frac{-i}{c^{12}} = 0$	

New York

Sov/21-58-2-7/28
On the Solution of one Problem in the Theory of Potential
where

$$A = \frac{1}{F_c} \left(F_x^{1/2} + F_y^{1/2} + F_z^{1/2} \right)$$
The function (c) defined as follows:

$$p(c) = \frac{\Delta F}{A} - \frac{\partial}{\partial c} \int dc A$$
does not depend on x, Y and z, and the equation of the above
condition has the following general solution:

$$W = B_i \int_{C_c} e_j e_c f_c \Phi(t) dt$$
where the constants B_1 and B_2 are found from the conditions
at infinity and on the surface S_0 . There is 1 Soviet reference.

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ASSOCIATION: C	Deipenkovskiy pedagogicheskiy institut im. P.D. Osipenko (Osipenko Pedagogical Institute imeni P.D. Osipenko)
PRESENTED: SUBMITTED:	By Member of the AS UkrSSR, G.N. Savin April 20, 1957
NOTE:	Russian title and Russian names of individuals and insti- tutions appearing in this article have been used in the transliteration
Card 3/3	



SOV/179-59-2-24/40

AUTHOR: Rvachev, V. L. (Berdyansk)

TITLE: The Nature of the Pressure Distribution under a Punch Having the Shape of Two Contacting Circles (O kharaktere raspredeleniya davleniya pod shtampom, ocherchennym v plane čvumya soprikasayushchimisya okruzhnostyami)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, p 158 (USSR)

ABSTRACT: A brief note, deriving the pressure distribution by inversion of the author's previous solution (Ref 1) for a punch in the form of a strip. There is 1 figure and 1 Soviet reference.

SUBMITTED: December 8, 1958.

Card 1/1

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NH2TEDLEF

RAKOV, A.F. [Rakov, A.Kh.]; RVACHEV, V.L. [Rvachov, V.L.] Contact problem in the theory of elasticity for a semispace with a modulus of elasticity which is a power function of the depth. Dop.AN URSR no.3:286-290 '61. (MIRA 14) (MIRA 14:3) 1. Berdyanskiy gosudarstvennyy pedagogicheskiy institut. Predsatvleno akademikom AN USSR G.N.Savinym[Savin, H.M.]. (Elasticity) nin series and a series of the s CARGE AN TRACT LATER THE

APPROVED FOR RELEASE: 06/20/2000

N MAGNE

G.T. [Hilly, H.J.]: RVACHEV, V.L. [Rvachov, V.J.] $\mathbf{R} \in \{\infty\}$ Findemental integral equation of a contact problem in the theory of elasticity for a half-space whose modulus of elasticity is a power function of the depth. Dop. AN URSR no.8:1041-1044 62. (MIRA 38:2) 1. Berdyanskiy gosudarstvennyy pedagogicheskiy institut.

APPROVED FOR RELEASE: 06/20/2000

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"APPROVED FOR RELEASE: 06/20/2000

S/021/63/000/001/007/012 D251/D308 Savin, H. M., Academician, and Rvachov, V. L. AUTHORS: On the formal and actual conjointness of deformations TITLE: PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 1, 1963, 35-39 TEXT: In the statical theory of elasticity solutions are sought, in general, which satisfy the boundary conditions, the equilibrium condition and the conjointness of strains. However, in certain special cases there is no actual conjointness of strains. Nowsver, in conduction jointness is defined to occur if: a) any part of an elastic body that is simply connected before deformation will be transformed into a simply connected region after deformation; b) the outside and inside defined by any surface will remain outside and inside respectively after deformation. The mathematical formulation of the second condition is obtained by considering Boussinesq's solution. The zone of fictitious deformations is considered for the special cases of a concentrated force applied to the boundary of Card 1/3

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Sec. 4 Sec. A Sugar s/021/63/000/003/013/022 D405/D301 AUTHORS: Savin, H, M., Memeber of the Academy of Sciences UkrRSR, and Rvachov, V. L. Disturbance of compatibility of deformation in contact TITLE: problems of elasticity theory PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 3, 1963, 354-357 TEXT: The disturbance of the compatibility of deformations was studied in problems involving the contact between a die and an elastic half-plane (half-space respectively). The disturbance of the compatibility of deformations in contact problems is accompa-nied by the interpenetration of the points of the elastic body and of the die. Such an effect of course has no physical sense. The plane problem is considered first. From the formulas for the normal and tangential stresses P(x) and T(x) it is evident that on approaching the ends of the contact region these stresses change sign infinitely many times. It is shown that this effect is related to the appearance of zones of figtitious deformation. After - 11 Card 1/3

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CIA-RDP86-00513R001446220009-3

C C C C C C ÷. ? s/021/63/000/003/013/022 Disturbance of compatibility ... 1405/D301 $h \leq 0$ transformations, the formula expressing the condition of compati-bility of deformations assumes the form $\frac{P_{0}v}{\pi\mu\sqrt{\tau}\sqrt{1^{2}-x^{2}}}\cos\left(\beta\ln\frac{1+x}{1-x}\right) > 0$ (9) It can be readily seen that for $x \rightarrow \pm 1$ this condition is violated infinitely many times; hence the compatibility of deformation is violated at infinitely many points of the contact region. Further, the contact problem involving a circular die with a plane base and an elastic half-space is considered. In this case, the compatibility condition is violated if Card 2/3

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RVACHEV, V.L. Analytic description of certain geometrical objects. Dokl. AN SSSE 153 no.4:765-767 D '63. (MIRA 17:1) 1. Predstavleno akademikom A.A. Dorodnitsynym.

APPROVED FOR RELEASE: 06/20/2000

SAVIN, G.N. [Savin, H.M.]; RVACHEV, V.L. [Rvachev, V.L.]

Displacements under the action of a concentrated force. Prykl. mekh. 10 no.2:222-225 '64 (MIRA 17:7)

1. Institut mekhaniki AN Ukr33R i Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki.

APPROVED FOR RELEASE: 06/20/2000

MNESAROWSKIY, V.I. [Mossakovs'kyi, V.I.]; ONISHCHENKO, V.I. [Onyahchenko, V.I.]; RVACHEV, V.L. [Evachov, V.L.] Applying Green function to the solution of the mixed problem for a semispace in the theory of elasticity. Prykl. mekh. 10 no.3:201-296 '64. (MIRA 17:6) 1. Dnepropetrovskiy gosudarstvennyy universitet i Khar'kovskiy institit gornogo mashinostroyenlya, avtomatiki i vychislitel'noy tekhniki.

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	66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) P5019459 (A) SOURCE CODE: UR/0378/65/000/ vachev, V. L.; Stoyan, Yu. G.	5'/
ORG: none		B
TITLE: Algorations on	corithm for the optimum layout of a pattern with round cut the distance between pairs of cutouts	outs under limi-
SOURCE: Kil	bernetika, no. 3, 1965, 77-83	
TOPIC TAGS:	metal stamping, computer programming, computer applicat	ion
ABSTRACT: A the problem where there holes and th cific comput of different is required lem with the	An algorithm and specialized digital computer program are of locating round holes of given arbitrary radii on a re are limitations on the distance between pairs of holes as he perimeter of the blank. The general problem and two ex- ter solutions are discussed: (1) optimum location of a given t diameters in the smallest possible rectangular blank who between holes or between them and the perimeter; and (2) e holes separated by given distances from each other and k. Orig. art. has: 4 figures, 28 formulas.	developed for ctangular blank nd between the xamples of spe- roup of holes en no spacing
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	L 5052-66 SVT(d)/T IJP(c)
	ACCESSION NR: AP5024541 W/5 AUTHOR: Ryachev, V. L.; Stoyan, Yu. G. W/5 UR/0378/65/000/004/0070/0075 $519.8U4/55B$
	TITLE: Optimum distribution of circular patterns
	SOURCE: Kibernelika, no. 4, 1965, 70-75
	TOPIC TAGS: cybernetics, computer program, probability 16:19.55
	ABSTIACT: in an earlier paper (Kibernetika, no. 3, 1965) the authors investigated the problem concerning the optimum distribution of circular patterns of arbitrary radii for given minimum permissible distances between each of the pairs. A solution with a minimum area of the underlying rectangle is sought. In the present problem n circular patterns are given with arbitrary radii and a strip of material (of width 1) with m circular openings with arbitrary radii. The n patterns should be distributed across the strip of material in such a way that the length h of the strip is a minimum. The paper outlines the detailed formu- lation of the problem leading to a computer program. The method of solution, the procedure for the determination of the global maximum, and the generator of random numbers have all been described in the earlier paper. The authors conclude Card $1/2$
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with the presentation of f (in the intermediate stage art. has: 4 formulas, 6 f	es of the calculation)	ut on a digital computer yi up to 67 local maxima. Or	elding ig.
ASSOCIATION: none			
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L 14650-66 EWT(d) LJP(c) ACC NR: AP6004253	SOURCE CODE: UR/0378/65/000/006/0085/0094
AUTHOR: Rvachev, V. L.; Stoyan, Yu.	<u>c</u> . //
ORG: none	S and a second se
TITLE: Recognition of nonintersection	n of special forms of geometric figures
SOURCE: Kibernetika, no. 6, 1965, 85	-94
TOPÍC TAGS: geometry, geometric form	4.55
ABSTRACT: The author considers necess section of various types of geometric the absence of common points in variou arcs of circles. The following theory and circle do not intersect when and a part and the given circle do not intersect the points of intersection are re distance greater than the length of the	sary and sufficient conditions for noninter- patterns. Special cases are considered for us combinations of line segments, circles and ems are proposed and proved: 1. a given arc only when the circle of which the given arc is tersect, or in the case where they do inter- emoved from the midpoint of the given arc by a he chord which subtends half the given arc; only when the circles of which they are part
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do not intersect, or if they do intersect when the points of intersection are removed from at least one of the midpoints of the given arc by distances greater than or equal to the length of the corresponding chords which subtend half the given arc; 3. a given arc and a line segment do not intersect when and only when the straight line of which the segment is a part and the circle of which the arc is a part do not intersect, or if they do intersect when the distances from the points of intersection to the midpoint of the given arc are greater than the length of the chord which subtends half the given arc, or when the points of intersection lie outside the given arc. Examples are given illustrating application of these theorems. Orig. art. has: 7 figures, 2 tables, 51 formulas.

SUB CODE: 12/ SUBM DATE: 22Mar65/ ORIG REF: 005/ OTH REF: 000

APPROVED FOR RELEASE: 06/20/2000



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	<u>L 11,590-66 EWT(d) I.IP(c)</u>	
	ACC NR: AP5028767 SOURCE CODE: UR/0376/65/001/011/1537/1543	
	AUTHORS: Rvachev, V. L.; Shklyarov, L. I.	
•	ORG: Khar'kov Institute for Mining Machinery Construction, Automation, and Computer Engineering (Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i	
	vychislitel'noy tekhniki)	
	TITLE: Use of the Bubnov-Galerkin method to solve <u>boundary value problems for regions</u> of complex form	
	SOURCE: Differentsial'nyye uravneniya, v. 1, no. 11, 1965, 1537-1543	
	TOPIC TAGS: approximation calculation, differential equation, elliptic differential equation	
	ABSTRACT: For purposes of obtaining approximate solutions to certain elliptic partial differential equations, the authors consider the problem of finding $\omega(x,y)$, continuous, with continuous partial derivatives in the region whose boundary is composed of smooth arcs with equations	
	$\varphi_1(x, y) = 0, \ \varphi_2(x, y) = 0, \ldots, \varphi_n(x, y) = 0, \ldots$	
	where φ_i have continuous and bounded partial derivatives, with $\omega(x,y) > 0$ inside and	
	$\omega(x,y) = 0$ on the boundary. This is solved by using the technique of R-functions the approximate solution of the differential equation being of the form	
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]	L 071/188-67 SOURCE CODE: UR/0378/66/000/005/0082/0092	
Â	ACC NRI AP6035587	-
	AUTHOR: Rvachev, V. L.; Stoyan, Yu. G. 13	
	ORG: none	
	TITLE: Algorithms for constructing inequalities which are satisfied by the	
	allocation parameters of intersecting bodies	
	SOURCE: Kibernetika, no. 5, 1966, 82-92	
	TOPIC TAGS: experiences, by the intersection condition, algorithm,	
	ABSTRACT: The problem of the best (in a certain sense) distribution of bodies	
	in a given domain (for example, the problem of the condition for intersection	
	of hodies can be automatically estudiate the relative coordinate system	
	v v 7 with respect to a like coordinate of the allocation	
	of the allocation of the body. The general is intersection of two bodies are written	4
	It is nointed out that the application of the story of the connection with	
	particular cases is associated with certain difficulties in connection algorithms for calculating the maximum of a certain function. The author describes algorithms for calculating the maximum of a certain function, polyhedrons, right circular	
	calculating the maximum of a certain function. The author decivity deriving the intersecting conditions for spheres, polyhedrons, right circular UDC: 512,25/26+519,3	
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Here and the second of the second s L 07488-67 ACC NR: AP6035587 . ____* cylinders, the right frustum of a cone, and their combinations. For these particular cylinders, the fight frustum of a cone, and their combinations. For these particular cases, it is shown that the conditions of intersection of two bodies S_i and S_j can be represented by an inequality of the form $f_{ij} \ge 0$, where f_{ij} is an elementary function of allocation parameters of these bodies. Orig. art. has: 66 formulas and 7 figures. SUB CODE: 12/ SUBM DATE: 21Jun65/ ORIG REF: 006/ ATD PRESS: 5104 Card 21

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25月1日日

ACC NR: AP6013027	GG SOURCE CODE: UR/0051/66/	/020/004/0701/0708
AUTHOR: Polyanskiy, V. K.; Rvachey	, V. P.	53
ORG: none TITLE: Concerning the <u>reflection o</u>	f light by rough surfaces	B
SOURCE: Optika i spektroskopiya, v	. 20, no. 4, 1966, 701-708	
TOPIC TAGS: light reflection, surf optics, light scattering, light pol	ace roughness, light diffracts arization, optic brightness	ion, geometric
ABSTRACT: The authors point out in used to investigate the interaction fraction method and the geometric-o sumed to be a random aggregate of m have actually very little in common to investigate the scattering prope explain some of the observed phenom and diffraction concepts. The expe is based essentially on a brightnes earlier (Tr. GOI v. 24, No. 143, 3, of black glass with refractive inde	between light and a rough sur ptics method, wherein the roug icroscopic areas, each reflect . The purpose of the present rtics of rough surfaces in pol ena on the basis of both the g rimental setup used for this p s-measuring apparatus describe 1955). The measurements were	rface, the dif- gh surface is as- ting separately, investigation was larized light and geometric-optics purpose (Fig. 1) ed by the authors e made on a plate was polished and

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<u>40895-66</u> EAF(m)/EAP(t)/ETL IJP(c) JD SOURCE CODE: UR/0368/66/004/006/0568/0571 44]
UTHOR: Rvachev, V. P.; Sakhnovskiy, M. Yu.	
RG: none	
ITLE: Optical properties of magnesium oxide in ultraviolet light $\nu \eta \sim \eta$	
OURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 6, 1966, 568-571	
OPIC TAGS: magnesium oxide, optic property, UV light, UV optic material, light reflec- on coefficient	
BSTRACT: The value of the coefficient of diffuse reflection for a freshly sprayed layer of IgO about 3 mm thick was studied by means of an integral photometer. The optical proper- ies of MgO were measured at 220-1000 mµ, using for this purpose the "two-parametric" heory of the transmission of radiation through a light-scattering medium, and the problem of the accuracy of the measurements is examined. Employing this theory an expression is erived for the absorption coefficient of MgO particles. The error in determining the coefficient of diffuse reflection was about 0.5% for the ultraviolet region and about 0.3% for the isible and infrared regions. A calculation of errors involved when determining the absorption	n
The and infrared regions. A calculation of circles involved interved intervention of about 25% for the visible and near-infrared interved	

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	and about 15% for the					1-1		- Tł	wo a	aona	Judad	l that	the	11tw	ດ–ກອກ	amet	ric"	theo)rv	
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11	1VI .	MI. U	1936	6 n.	43) i	я fu	lly co	mne	tent.	Ori	g. a	rt. ha	1s: 3	figu	ires	and 1	2 for	mul	as .	
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	L 32624-66 EWT(1) IJP(c) WW/GG	
	ACC NR: AP015593 SOURCE CODE: UR/0368/66/004/005/0415/0421	
	AUTHOR: Rvachev, V. P.; Guminetskiy, S. G.	
· .	ORG: none	
	TITLE: On the structure of light beams reflected by vegetation leaves	
•	SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 5, 1966, 415-421	
	TOPIC TAGS: light reflection, light scattering, light transmission, light polariza- tion, plant ecology	
	ABSTRACT: In view of the fact that earlier similar studies were restricted to re- flection, transmission, and absorption of the leaf as a whole, and to spatial distribu- tion of the light scattered by the leaf, the authors have studied the structure of the light flux produced by interaction of plane-polarized light with the leaf material. The use of polarized light made it possible to determine quantitatively the magnitude of each of the spectral components. The experiment was carried out with a gonio- spectrophotometer described elsewhere (UFZh v. 10, No. 1, 87, 1965), equipped for polarization measurements. The spectral region investigated was 400 - 1100 nm. Both dull-surface and glossy leaves were investigated (Artocarpus integrifolia and Ficus australis, respectively). The experimental procedure is briefly described. The ex- periment made it possible to separate and measure quantitatively the polarized part of the surface component, the depolarized part of the surface component, the polarized part of the inner component, and the depolarized part of the inner component so that	
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	e case of , and othe oefficient ge from 40	e case of fuzzy leaves , and others). A table oefficients of reflecti ge from 400 to 960 nm.	e case of fuzzy leaves (Ficus carica, , and others). A table is presented s oefficients of reflection for normal i ge from 400 to 960 nm. Orig. art. has	e case of fuzzy leaves (Ficus carica, Solanum tuberosu , and others). A table is presented showing the relat oefficients of reflection for normal incidence for thr ge from 400 to 960 nm. Orig. art. has: 4 figures, 11	ves, a lesser dependence in the case of dull leaves, and no dependence wha e case of fuzzy leaves (Ficus carica, Solanum tuberosum, Strobilanthes , and others). A table is presented showing the relation between the pefficients of reflection for normal incidence for three types of leaves ge from 400 to 960 nm. Orig. art. has: 4 figures, 11 formulas, and 3 0,06/ SUBM DATE: 11Apr65/ ORIG REF: 013

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	C 38701-66 EMP(m)/EMT(1) MI	
ļ	ACC NR: AP6021359 (N) SOURCE CODE: UR/0207/66/000/003/0121/0123	
	AUTHOR: Yevdokimov, S. Ye. (Khar'kov); Rvachev, V. L. (Khar'kov)	
	ORG: none	
	TITLE: Coefficient of apparent mass during the horizontal hydrodynamic	
	inpact of a floating sphere	
	SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1966, 121-123	
	TOPIC TAGS: mathematic analysis, mathematic transformation, hydro- aynamics, incompressible fluid, ideal fluid	5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
	ABSTRACT: The three-dimensional problem of a horizontal hydrodynamic impact of a floating body, which was investigated by E. L. Blokh, V. I. Mossakovskiy, and V. L. Rvachev for the special case of a body half immersed in an incompressible fluid, is analyzed for the case of an intersed in an incompressible fluid, is analyzed for the fluid does not arbitrary immersion depth under the assumption that the fluid does not tear away from the wetted surface. The motion of an ideal fluid tear away from the wetted surface. The motion of a floating sphere filling a half-space $z \ge 0$, after a sudden impact on a floating sphere having a unit radius of $x^2 + y^2 + (z - h)^2 = 1$, is uniquely defined by the velocity potential φ^* which is a harmonic function associated with the impulse pressure p_t , and the fluid's density ρ by the relation	
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tions (er	ror < 2%)	are shown	i. Orig.	art. nas:	TT TOIMO	TH REF: 00	
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POLYANSKIY, V.K. [Polians'kyi, V.K.]; <u>RVACHEV, V.P.</u> [Rvachov, V.P.]; KOVAL'SKIY, L.V. [Koval's'kyi, L.V.] Method of formation of light beams with given energy distribution in a given spectral range. Ukr. fiz. zhur. 10 no.6;682-683 Je '65. (MIRA 18:7) 1. Chernovitskiy gosudarstvennyy universitet.

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. Gnernovitskiy, gosudarstvennyy universitet.	RVACHEN JaPa: PALAMAR Delculation o 12 no.23371-3	f the quantum yield 74 Mr-Ap '65.	of photosynthesis.	Fiziol. rast. (MIRA 18:6)	
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近期起数

2820-66 EWT(1)/!PF(c) IJP(c) WW/GG	
CCESSION NR: AP5016180	UR/0051/65/018/006/1057/1064 535.51:535.361
UTHORS: <u>Rvachev</u> , V. E; Polyanskiy,	<u>v. K.</u> 411,55
	ight through a light-scattering 21, 74,55
OURCE: Optika i spektroskopiya, v.	18, no. 6, 1965, 1057-1064
OPIC TAGS: light transmission, ligh ight scattering glass	t polarization, light scattering,
BSTRACT: Inasmuch as little attention he scattering of light by rough (mat- yze this phenomenon and show that who hrough a matte interface, the plane h amount that depends on the angle of s well as an account of the polarization	te) surfaces, the authors ana- en plane-polarized light passes of polarization is rotated by f observation. This circumstance

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L 2820-66 ACCESSION NR: AP5016180 polarization as a result of single interaction with the matte interface; 2) polarized by changing the state of polarization as a result of double reflection within the layer; 3) depolarized. The intensities of the different components are estimated and the directions in which they appear are indicated. Apparatus for direct measurement of the brightness, making it possible to obtain three equations for determining the three components, is described. The apparatus is shown in Fig. 1 of the Enclosure. It was used to measure the scattering of a monochromatic beam ($\lambda = 555$ nm) of polarized light by ground glass. The experimental results are in satisfactory agreement with the theory at angles up to 25°. The depolarized component was found to be too small to be determined reliably. At angles larger than 25° the calculated plane of polarization is larger than the measured one and the discrepancy increased with increasing angle. An explanation for the discrepancy is offered. Orig. art. has: 7 figures and 12 formulas. ASSOCIATION: None Card 2/4



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	5EWT(1)/EEC(k)-2IJP(c)	
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AUTHOR:	Rvachev, V. P.; Bakhnovskly, M. Yu.	
	Theory and application of an integral photometer for the investigation of	
TITLE: '	theory and application of an integral photosical states	
SOURCE:	Optika i spektroskopiya, v. 18, no. 3, 1965, 486-494	
	S: photometry, reflection, coefficient, transmission coefficient, abso-	
lute pho	tometry, spherical photometer, integral provide the second s	
	: In view of the discrepancies between absolute values of the reflection	
ABSTRACT	: In view of the discrepancies between absolutious investigators, the au- ent obtained with spherical photometers by various investigators, the au-	
thors. C	ent obtained with spherical photometers by validus failure to take direct laiming that the reason for the discrepancies is failure to take direct.	i i i i i i i i i i i i i i i i i i i
account	of the influence of the scattering inheterator and for objects having ar-	<u></u>
derive p bitrary	hotometric relation for a spherical photometric are derived for objects lo- scattering indicatrices. Separate relations are derived for objects lo-	
cated on mental I	the surface of the sphere and in the centre of values of the reflection rocedure for the determination of the absolute values of the reflection	
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shown in Fig. 1 of the Enc to determine the reflectio	losure, is also described. n and transmission coeffici	Igned sphereical photometer, The measurements necessary lents by means of the formula ig. art. has: 6 figures and	8
ASSOCIATION: None			
SUBMITTED: 25Apr64	ENCL: OL	SUB CODE: OP	
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足翻译

THE STREET

AUTHOR:	Rvachev, V.P.	50V/90-58-1-3/9
TITLE:	On Using the Oscillatory-Discharge Meth Line Defects (Primeneniye metoda koleba otyskaniya povrezhdeniy kabel'nykh lini	tel'nogo razryada diya
PERIODICAL:	Energeticheskiy byulleten', 1958, Nr 1,	pp 10-16 (USSR)
ABSTRACT:	After having explained the essence of t charge method, the author describes 2 S lographs. Fhe first is called OZhO-3. single-action slave sweep, and can dete the range of 10 or 12 km. Its operation minus 20 m for a stretch of 2 km. The photographic outfit for recording oscil	It is equipped with or cable defects within apparatus needs a letions. For this
	purpose the author recommends FED, "Zor meras. He gives operational instruction distance of the traced defect is to be electronic oscillograph is called IPV-3	kiy" or "kiyev" ca- ns and shows how the calculated. The second
	ing small time intervals). It was deve nicians of the Lenenergo (cable network improvements have been introduced by Ts	oloped by the tech- c of Leningrad). Some SNIEL (Central Scien-
Card 1/2	tific Research Electrotechnical Laborat apparatus received the name of EMKS-3 (tory) of MES. The

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On Using the Oscillatory-Discharge Method in Tracing Cable-Line Defects

secondmeter, model 3) and is being prepared for serial production in the "Energopribor" plant at Moskva. The pointer of the apparatus directly indicates the distance of the traced defect. The apparatus has 3 measuring band ranges (for 1,000, 3,000 and 6,000 m). Its precision is plus-minus 1 %. Operational instructions are also given by the author. For further, completely-precise localization of the defect, the author proposes an acoustic method as most convenient. A supplementary remark of the editor reads that the present article is the last one of a series devoted to the cable defect tracing with the help of modern electronic devices. The first articles appeared in Energeticheskiy byulleten', 1957, Nr 2 and 3. There are 5 circuit diagrams, 4 oscillograms, 1 photo and 7 Soviet references.

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· · ·	ACCESSION NR: AR4036029 8/0299/64/000/006/G006/G006
	SOURCE: Referatiny*y zhurnal. Biologiya, Abs. 6G32
	AUTHOR: Rvachev, V. P.; Berdnikov, V. F.; Vashchenko, V. I.
- - - -	TITLE: Physical bases for measurements of the energy of photosynthetically active radiation with selective instruments
	CITED SOURCE: Fiziol. rasteniy, v. 10, no. 5, 1963, 598-602
	TOPIC TAGS: photosynthesis, solar radiation, radiation measurement, solar energy, photometer, photoactinometer, actinometry
	TRANSLATION: The goal of this work was the evaluation of the relative sensitivity of existing instruments for the measurement of photosynthetically active radiation and the calculation of the corresponding corrective coefficients to adjust their readings to the readings of an ideal photoactinometer. The readings on the instruments depend essentially on the source of radiation, which is connected with the different distribution of energy in the spectra of the radiation sources. Usually, radiation sensors are rated under a heating lamp with a color temperature of 2850K. In this connection, in this paper, corrective coefficients are given for conversion of the readings of different instruments under
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YENIKEYEV, S.B.: MYAGKOV, V.Ya.; RVACHEV, V.P. Critical remarks on K.N.Kulizade's article and on the article of G.M.Stepanov and I.I.Ginzburg. Energ. biul. no.7:7-13 J1 158. (MIRA 11:10) (Electricity in mining--Standards) 1015-6-5

APPROVED FOR RELEASE: 06/20/2000

- 192 IS 38

AUTHOR:	Yenikeyev, S.B.; Myagkov, V.Ya.; Rvachev, V.P. 90-58-7-2/8
TITLE:	Critical Comments on K.N. Kulizade's Article and the Article by G.M. Stepanov and I.I. Ginzburg (Kriticheskiye zamechaniya po stat'ye K.N. Kulizade i stat'ye G.M. Stepanova i I.I. Ginzburga)
PERTODICAL	Energeticheskiy Byulleten', 1958, Nr 7, pp 7-13 (USSR)
ABSTRACT :	The article deals with both Kulizade's formula for the stan- dardization of electric power consumption in depth-pumping oil production and with Stepanov and Ginzburg's objections and criticisms of the above. Kulizade's formula, the method used by the Orgenergoneft's offices and O.P. Shishkin's for- mula are compared and the following conclusions are drawn: the Orgenergoneft' method is the most exact of existing methods, but it must be checked for how long the specific power con- sumption curves based on a previous detailed study of "typical" wells are in fact viable. The use of semi-empirical formulae is justified in spite of their inaccuracy due to the ease and speed with which they can be applied. A modified version of Kulizade's formula would be of great use; the modification

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Critical Comments on K.N. Kulizade's Article and the Article by G.M. Stepanov and I.I. Ginzburg (Kriticheskiye zamechaniya po stat'ye K.N. Kulizade i stat'ye G.M. Stepanova i I.I. Ginzburga)

consisting of a more exact evaluation of the k-factor. The authors obtained good results using the formula:

$$k = \frac{E \text{ dai} - 24 P_{o}n}{2.73 Q_{zh}H. 10^{-3}}$$

where E dai = daily electric consumption, Q_{2h} = daily yield

of the well, $P_0 = 0.02$, coefficient taken from Kulizade's Table 1 and n = number of strokes per minute of the pump piston. There are 5 tables, 2 graphs and 5 Soviet references.

Card 2/2 1. Electric power--Consumption 2. Electric power--Standards

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RVACHEV, V. P. Mbr., Inst. Physics, Odessa State Univ. im. I. I. Mechnikova, -cl941 Mbr., Chair Physics, Odessa Ind. Inst., -cl941 "Concerning Luminescence of Fluor Spar," Journal Phys., 6, Nos. 3-4, 1942.		रत्यात १ ४	D														
Mbr., Chair Physics, Odessa Ind. Inst., -c1041																	
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1. RVACHEVA, E. L.

2. USSR (600)

- 4. Ostrogradskiy, Mikhayl Vasil'yevich, 1801-1861.
- 7. Session of the Department of Physical Mathematical and Chemical Sciences of the Academy of Sciences of the Ukrainian S.S.R., dedicated to the 150th anniversary of the birthday of M. V. Ostrogradskiy. Ukr. mat. zhur. 4, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unci.

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392 (1952). (Russian) <u>Gnedenko</u> and <u>Korolyuk</u> [Doklady Akad. Nauk SSSR (N.S.) 80, 525-528 (1951); these F.ev. 13, 570] have shown how the problem of comparing the empirical <u>Gistanutions</u> of two equal samples can be reduced to a random walk

problem. Further results were obtained by Gnedenko and

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the present another [ibid. 82, 513-516 (1952); these Rev. 13, 760]. The reader is referred to either of these reviews for notations and explanations. The author obtains new and detailed results. Let (x_1, \dots, x_n) and (y_1, \dots, y_n) be the two samples, and let (x_1, x_2, \dots, x_n) be their rearrangement in increasing order. Let $\omega_n(j) = F_1(x_j) - F_2(x_j)$, where F_1 and F_2 are the two empirical distributions. Denote by $D_n^+(p, q), D_n^-(p, q)$, respectively, the maximum and minimum of $\omega_n(j)$, when $0 \le p \le j \le q \le 2n$. The author obtains the joint conditional distribution of the k-dimensional random variable $\{D_n^+(0, 2n), D_n^+(1, 2n), \dots, D_n^+(k, 2n)\}$ for given values of $\omega_n(0), \omega_n(1), \dots, \omega_n(k)$, and also the corresponding unconditional distribution. Next she derives analogous conditional and unconditional distributions for the 2k-dimensional variable

$$[D_n^+(0, 2n), D_n^-(0, 2n), \cdots, D_n^+(k, 2n), D_n^-(k, 2n)]$$

In each case the limiting distribution as $n \to \infty$ is obtained. Finally the distribution of the maximal term of the sequence $\{\omega_n(j)\}$ is given together with its limiting form. As an interesting corollary one gets that the probability that the sequence $\{\omega_n(j)\}$ assumes its maximum at one and only one place j with 0 < j < 2n equals one half; and that each place j has the same probability 1/2(2n-1) to be this place of maximum. W. Feller (Princeton, N. J.).

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