

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

1. Vazduhoplovnomedicinski institut u Zemunu, Ocno odeljeđje. (ILLUSIONS) (AVIATION MEDICINE)	 Visual illusions during fli D 162.			
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PANIBRATCHENKO, N.

Review of the book by V.A. Skogorev "Integrated labor organization in stopes and development headings in coal mines." Ugol' 39 no.7:78 J1 '64. (MIRA 17:10)

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STOSIC, Darko, dr (Simina 22a, Beograd); RUZICIC, Nikola, dr, redovni profesor; MILOSEVIC, Perisa, dr, docent; <u>PANIC</u>, Bozidar, inz., asistent; MARTINOVIC, Borka, asistent

> Study of the degree of homogenization in the mixtures of livestock fodder by applying radioactive isotopes. Technical and economical aspects. Tehnika Jug 17 no.6:Suppl.: Radioizotopi zrac 1 no.6:1050-1056a Je '62.

> Savetnik Savezne komisije za nuklearnu energiju, Beograd.
>  Poljoprivredni fakultet Univerziteta u Beogradu (for Ruzicic, Milosevic Panic).
>  Institut za primenu nuklearne energije u poljoprivredi, veterinarstvu i sumarstvu, Zemun (for Martinovic).

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	Rational use of seasoned wood. p. 7	-
•	TEHNICA NOUA, Bucuresti, Vol 3, No. 35, Feb., 1956	_
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	SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956	2 4
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	GILIC,	, Miladin, sanitetski pukovnik dr; PANIC, Jovan, dr On a case of ophthalmo-maxillary nevus fusco-coeruleus (Ota) and a case of blue nevus (Jamamoto). Voj.san.pregl., Beogr. 18 no.1:	/
		<ul> <li>a case of blue house (1975-79 Ja '61.</li> <li>1. Vojnomedicinska Akademija u Beogradu, Kozno-venericno odeljenje (NEVUS PIGMENTED case reports) (EYE neopl)</li> </ul>	
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STOJKOV, N.; PANIC, R.
Qinical pictures of tuberculosis in children who received the MG vaccine. Bul sc Youg 7 no.61170 D '62.
1. Fizioloska klinika Medicinskog fakulteta, Sarajevo.

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STOJKOV, Nevena; PANIC, Rade

Clinical forms of palmonary tuberculosis in BCG-vaccinated children. Tuberkuloza 15 no.1:24-28 Ja-Mr '63.

1. Klinicka bolnica za plucne bolesti i tuberkulozu medicinskog fakulteta, Sarajevo - Sef: prof. dr Spiro Janovic. (TUBERCULOSIS IN CHILDHOOD) (TUBERCULOSIS, PULMONARY) (BCG VACCINATION)

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"INTKIN, Ya., kandidat tekhnicheskikh nauk; PANICH, A., inshener.
Quality improvement and increased output of buckwheat grits.
Muk.-elev. prom. 20 no.4:15-17 Ap '54. (MIRA 7:7)
1, Vsessoyusnyy nauchno-issledovatel'skiy insititut zerna i produktov
ego pererabetki.
(Buckwheat)

	ICH,A., inzhener	
Study of new variaties of buckwheat and p 21 no.6:15-18 Je <sup>1</sup> 55.	millet. Mukelev.prom. (MERA 8:10)	
l. Vsesoyusnyy nauchno-issledovatel'skiy duktov yego pererabotki (Buckwheat) (Millet) (Grain mi		
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ITSKOVICH, G.M.; KISELEV, V.A.; CHERNAVSKIY, S.A.; BOBKOV, K.N.; PANICH, B.B.; BAZHENOV, D.V., red.

[Preparation of a course project on machine parts; reference manual] Kursovoe proektirovanie detalei mashin; uchebnospravochnoe posobie. Izd.4., perer. Moskva, Mashinostroenie (MIRA 18:5) 1964. 594 p.

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主义的时代学校的学习

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ITSKOVICH, G.M.; PANICH, B.B.; YERDAKOV, V.I.; CHERNAVSKIY, S.A., red.; ANOSHINA, K.I., red. izd-va; PAVLOVA, V.A., tekhn. red. [Engineering mechanics: a program, tasks for control operations, and brief instructions for fulfilling them for instruction engineering students in correspondence schools of technology and their branches] Tekhnicheskaia mekhanika; programma, zadaniia dlia kontrol'nykh rabot i kratkie ukazaniia k ikh vypolneniiu dlia uchashchikhsia stroitel'nykh spetsial'nostei zaochnykh tekhnikumov i otdelenii. Moskva, Gos. izd-vo "Sovetskaia nauka," 1957. (MIRA 14:6) 106 p. (Building-Study and teaching) APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

地名美国斯阿勒阿尔 医水和学

司法在关于的方法

SHNEYEROV, Ya.A.; SAVCHENKOV, V.A.; PANICH, B.I.; MONAKHOVA, L.V.; SOTNIK, I.S.; SOKOLOVSKIY, P.I.; MULN, N.I.
Using reinforcements of St.5ps semi-killed steel. Stal' 24 no.11; (MIRA 18:1)
1. Ukrainskiy nauchno-issledovatel'skiy institut metallov, TSentral'nyy rauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy i Nauchnoissledovatel'skiy institut betona i zhelezobetona.

ZHIKHAREVICH, S.A.; KARAULOV, A.G.; SAFRONOVA, I.P.; PANICH, B.I.; DRYAPIK, Ye.P.; DYMARSKIY, M.Ya.; MOISEYENKO, A.I.; TARZEYAN, P.G.

Replacing steel, circular-flanged ingot stools by graphite-containing ones. Ogneupory 28 no.10:437-443 '63. (MIRA 16:11)

 Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Zhikharevich, Karau'ov, Safronova). 2. Ukrainskiy nauchno-issledovatel'skiy institut metallov (for Panich).
 Kommunarskiy metallurgicheskiy zavod (for Dryapik, Dymarskiy, Moiseyenko, Tarzeyan).

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s/133/61/000/003/003/014 A054/A033 Panich, B. L., Candidate of Technical Sciences; Khmirov, V.L., Ingineer, and Ul'yanov, D.P., Engineer AUTHORS: Floating hot dozzle with ceramic ring When using stationary dozzles in casting killed steel, horizon-Stal', no. 3, 1961, 225 - 227 TITLE: tal cracks sometimes occur in the ingot, due to delayed shrinkage. PERIODICAL: cracks are mainly found at the top, under the feeder. In order to prevent the sticking of the ingot, floating dozzles (ceramic or metallic), based on American designs are used at the Kuznetskiy kombinat (Kuznets Combine). It was found that the bottom of steel dozzles contacting with the liquid metal was destroyed. To prevent this the zavod in. Dzerzhinskogo (Plant im. Dzerzhinskiy) used floating dozzles with ceramic rings. The lower part of the dozzles (produced for the Bessemer-process and 4.4 t ingots) can be replaced as they are fixed to the dozzle-construction by 4 bolts. The test dozzles had a smaller diameter than the conventional ones. In this way the H/D ratio Card 1/5 APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

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A054/A033

Floating hot dozzle with ceramic ring

is increased and this improves the heat conditions of the dozzle. As a result their volume could be decreased by 2 %. As the special stand to fit the ceramic rings to the dozzle is not yet available, a projection is mounted to prevent the ceramic ring from fracturing when the dozzle is fitted. The dozzles are lined with chamotte mortar, 80 mm thick. In the first tests the ring was fixed to the dozzle with a metal clamp, (Figs. 1, 4) but this intricate method was soon abandoned and replaced by mounting the ring in the liquid siliceous refractory mass used for coating the dozzle and drying it. over a burner. The ceramic rings were tested in producing railway steel, which was poured from the top through an intermittent spout. It was found that when ceramic rings are used under the dozzles, the intermittent spout can be dispensed with, if the following conditions are observed: 1) the gap between the ingot mold walls and the dozzle must not be more than 10 mm; 2) the metal flow must stop when the dozzle is filled to a height of 30 - 40 mm; 3) the pouring breaks should be about 30 - 40 seconds. By abandoning the intermittent spout, the pouring time could be reduced to 50 %, transverse cracks in the ingot were eliminated and the surface of the rails made of these ingots is much smoother. Moreover, only 11 - 14 % of the casting has to be cropped instead of the conventional 15.5 - 18.2 % and the amount

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A054/A033

Floating hot dozzle with ceramic ring

of metal used for the riser can be decreased by 1.5 - 2.0 %. However, the ceramic rings still show the following deficiencies: 1) the lower part of the dozzle is not fixed firmly enough to the upper part; 2) the taper of the lining is inadequate (10 %), rendering it difficult to remove the dozzle from the ingot. The taper should be increased to 13 - 15%; 3) the dozzle is not heavy enough It happens, that it rises when the upper part of the riser is being filled and then metal flows out from the riser. Moreover, the production and especially the drying of the ceramic rings is labor-consuming and complicated. Tests are being made to use wooden frames instead of these rings, as they are easily made and handled. There are 2 figures and 2 tables.

ASSOCIATION: Ukrainskiy institut metallov, zavod im. Dzerzhinskogo (The Ukrainian Institute of Metals, the Plant im. Dzerzhinskiy)

Card 3/5

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AUTHOR:	Panich, B. I., Cand. Tech. Sc. (The Ukrainian 377 Institute of Metals).	
TITLE:	A rational method of hesting the top surface of ingots. (Ratsional'nyy sposob utepleniya zerkala slitka).	1
PERIODICAL: ABSTRACT:	"Stal" (Steel), 1957, No.4, pp.371-372 (U.S.S.R.) Various methods of heating the top surface of ingots of rail steel were investigated. It was found that the use of lunkerite (18% aluminium powder, 5% of 45% ferro- silicon, 30% of ground coke breeze, 25% of ground chamotte and 22% of bauxite) does not produce any improvement in comparison with a 50/50% lime-coke mixture. On the other hand, the use of insulating covers (50-60% wood filings, 20-25% ground chamotte or blast furnace slag and 20-25% of clay) decreases the depth of the shrinkage cavity. To prevent the formation of bridges in the top part of the shrinkage cavity some heating insulating mixture (1 kg/ton) should be placed under the cover. The above covers are made for a single use. They weigh 8-9 kg. 1.5-2% economy in metal for shrinkage head is obtained. There are 2 tables and 1 figure.	

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86

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Ingots (Cont.)       SOV/2494         TABLE OF CONTENTS:       3         Foreword       3         Constructional Parameters of Molds for Large Castings (Over 5 Tons) 5       5         Ratic between the height of the poured metal and the width of the mean cross section of the mold cavity       6         Ratic between the side dimensions of the internal cross section of the mold       14         Angle of taper of molds       14         Mold wall_thickness       18         Configuration of internal surfaces of mold walls       24         Radii of mold fillets       27         Configuration of the bottom of solid-bottom molds       30         Reinforcing molds with steel hoops       35         Hot top for big-end-up molds       38         Ingot and Mold Design       46         Determining weight and dimensions of ingots       46         Determining dimensions of molds       49         Determining dimensions of hot tops and hot-top extensions       58		
Foreword3Constructional Parameters of Molds for Large Castings (Over 5 Tons) 5 Ratio between the height of the poured metal and the width of the mean cross section of the mold cavity6Ratio between the side dimensions of the internal cross section of the mold14Angle of taper of molds14Mold wall, thickness18Configuration of internal surfaces of mold walls24Radii of mold fillets27Configuration of the bottom of solid-bottom molds30Reinforcing molds with steel hoops35Hot top for big-end-up molds38Ingot and Mold Design46Determining weight and dimensions of ingots464949	Ingots (Cont.) SOV/2	2494
Constructional Parameters of Molds for Large Castings (Over 5 Tons) 5         Ratio between the height of the poured metal and the width of the         mean cross section of the mold cavity       6         Ratio between the side dimensions of the internal cross section of         the mold       14         Angle of taper of molds       14         Mold wall_thickness       18         Configuration of internal surfaces of mold walls       24         Radii of mold fillets       27         Configuration of the bottom of solid-bottom molds       30         Reinforcing molds with steel hoops       35         Hot top for big-end-up molds       38         Ingot and Mold Design       46         Determining weight and dimensions of ingots       46         Determining dimensions of molds       49	TABLE OF CONTENTS:	
Ratio between the height of the poured metal and the width of the mean cross section of the mold cavity6Ratio between the side dimensions of the internal cross section of the mold14Angle of taper of molds14Mold wall_thickness18Configuration of internal surfaces of mold walls24Radii of mold fillets27Configuration of the bottom of solid-bottom molds30Reinforcing molds with steel hoops35Hot top for big-end-up molds38Ingot and Mold Design46Determining weight and dimensions of ingots46Uptermining dimensions of molds49	Foreword	3
Determining dimensions of molds 46	Ratio between the height of the poured metal and the wi mean cross section of the mold cavity Ratio between the side dimensions of the internal cross the mold Angle of taper of molds Mold wall_thickness Configuration of internal surfaces of mold walls Radii of mold fillets Configuration of the bottom of solid-bottom molds Reinforcing molds with steel hoops	6 section of 14 14 18 24 27
Card 2/4	Determining weight and dimensions of ingots Determining dimensions of molds Determining dimensions of hot tops and hot-top extension	46 49

APPROVED FOR RELEASE: Tuesday, August 01, 2000
Ingots (Cont.) Design example of molds for killed-steel ingots Design example of a hot top for a killed-steel ingot mold Design example of ingot molds for rimmed steel Eliminating weight variation in ingots Making ingots for blooming mills	60 65 67 70 72	•
<pre>Making Ingots for any set of Types of Ingots and Molds at Ukrainian Metallurgical Plants Ingots and ingot molds of the "Azovstal!" Plant Ingots and ingot molds of the Plant imeni Kirov Ingots and ingot molds of the Plant imeni Dzerzhinskiy Ingots and ingot molds of the Alchevskiy metallurgicheskiy Kombinat (Alchevsk Metallurgical Combine) Tingots and ingot molds of the "Zaporozhstal!" Plant Defects in Molds Resulting From Use, and Means to Combat Them Erosion Hot cracking "Burnout" Crack formation Accidental types of mold defects Card 3/4</pre>	76 76 79 80 84 88 92 92 94 96 98 101	

CIA-RDP86-00513R001239

Ingots (Cont.)	<b>S0V/</b> 2494	
Methods of Producing Ingot Molds Technical conditions for casting molds Brief summary of methods of casting ingot molds Preparation of molds for casting ingot molds Mixes for cores and molds Paints for molds Drying cores and molds Assembly and pouring Cooling of ingot molds Materials for making ingot molds Types of casting defects	102 102 109 110 116 119 120 121 124 125 129	
Appendixes	133	
Bibliography	219	
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	AUTHOR:	246 Panich, B.I., Candidate of Technical Sciences, Ukrainian Metals Institute.	
	TITLE:	Reduction of amount of trimming in ingot rolling (Sokrash- chenie obrezi raskata slitkov.)	
	PERIODICAL:	" <u>Metallurg"</u> (Metallurgist), 1957, No. 1, p. 36, (U.S.S.R.)	
	ABSTRACT:	The use of ingot moulds with spherical bottoms has enabled the amount of tail trimming to be reduced to 1% of the total rolled length and to decrease the number of defects due to sub-crust blisters. 2 figures (photos).	
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IN REPORT OF STREET

PANICH, B.I.:

PANICH, B.I.: "Some problems in perfecting the technology of casting rail steel". Stalino, 1955. Min Higher Education USSR. Donets Order of Labor Red Banner Industrial Inst imeni N.S. Khrushchev. (Dissertations for the Degree of Candidate of Technical Sciences).

SO: Knizhnava letopis' No 44, 29 October 1955. Moscow.

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"HISHEWSKIY, Igor' Stefanovich: PANICH, Boris Li'ich; NIKOLAYENKO,
Nikolay Antonovich: RATEBUED, L., rod.; CUSANOV, K.,
Nikolay Antonovich: RATEBUE, RATEBUE,





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	L 10834-67 FSS-2/EWT(1)/EWP(m) TT/GW	
	ACC NR: AR6034627 SOURCE CODE: UR/0313/66/000/008/0015/0015 57	
	AUTHOR: Panich, I. M.; Khivrenko, A. P.; Grigorevskiy, V. M.	-
	TITLE: Motion of satellite 1965 06V	
	SOURCE: Ref. zh. Issledovaniye kosmicheskogo prostranstva, Abs. 8.62.122	
	REF SOURCE: Astron. tsirkulyar, no. 347, noyabrya 18, 1965, 2-3	
÷	TOPIC TAGS: artificial earth satellite, satellite motion, photometric analysis	
	ABSTRACT: During photometric analysis, an unusual change was detected in the	
	13 February to 20 September 1965, the satellite cycle increased 7.4 times, while in other cases such an increase, as a rule, did not exceed $30-40\%$ . [Translation of abstract]	
	13 February to 20 September 1965, the satellite cycle increased 7.4 times, while in other cases such an increase, as a rule, did not exceed 30-40%. [Translation of	
	13 February to 20 September 1965, the satellite cycle increased 7.4 times, while in other cases such an increase, as a rule, did not exceed 30—40%. [Translation of abstract]	
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	13 February to 20 September 1965, the satellite cycle increased 7.'4 times, while in other cases such an increase, as a rule, did not exceed 30-40%. [Translation of abstract] SUB CODE: 22/	

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D C S B S P

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TSELINKO, M.G. (Zhitomir); OREKHOV, V.P. (Ryazan'); FANICH, K.I.; FEDOROV, I.V. (g. Kurgan); KUL'CHITSKIY, A.F. (g. Kurgan); A.M. (pos. Tovarkovskiy Bogoroditakogo rayona, Tul'skoy oblasti); GALLOVA, (m. Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika; YANOVICH, I. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika); KADLECHIK, I. (Bratislava, Ghekhoslovatskaya Sotsialisticheskaya Respublika); PETRAK, M. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika); PETRAK, M. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika); PETRAK, O. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika); LBOV, A.G.
Suggestions and advice. Fiz. v shkole 22 no.6:62-64, 96 N-D '62. (MIRA 16:2)
1. 636-ya shkola, Moskva (for Panich). 2. Chkalovskaya srednyaya shkola Gor'kovskoy oblasti (for Lbov).

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PANIC H, D. 8 5 ጽ R 2 **2. Mishin D. J. (Odessa)**. Asymptotic expansions of the solution of partial differencial equations in powers of a small para-mater at highest decretive bailor, M.L. (1'vor). :Bubtraction method for the solution of boundry value and wired problems President of the fractioned). Certain formulas of the Fred-Table method and their application to the problem on the eval-tion of arror of approximate methods of solution of integral equations granhie A.D. (Ninak), Ye. G. Bibar' (Nosyr'), and A. Ja. Minimyskov (Polotak). Two modifications of the concept of a Grandic system on the plane the Third A 1956. The A.A. Abramov, V.G. A.D. Myshkla, S.M. V. Prokhorov, K.A. 1.G. Chetryev, G. Ye. Mutitekir. Ta. R. (Thémov). On integral equations with possitial nonlinearities ed for mathematicians and physicists. Lobschery\_g.Y. (Presondary). On the generalization of the Lobschery of linear integral equations of M.M. Mazarov utte nettk \$558. Nateresticheskir institui **30V/2**660 Moscow, Izd-vo AN SSSR, 1959 atics. ä matematicheskiy s"yezd. 3rd, Moscow, 1956 zhaniye sektsionnykh doki PRASE I BOOK EXPLOITATION 5 Editorial Þ atlats) Fach. Edst. G.N. Sherchan Boltymanky, A.M. Vast Boltymanky, A.M. Vast Bolton, and Resp. ML. Shilov, and A.L. Shira Shilov, and A.L. Shira rurrusta This book is in cesoring Agency: Alade Meports of Foreign Sci 247 p. 2,200 copies pr The book alstory of Card 8/34 ì CONCRACTION **F**Ø • • • 

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 PAWIOH, O.I.
 Basic boundary value problem for a polyharmonic equation of the fourth order. Kauch.dokl.vys.shkoly; fis.-mat.manki mo.31 (MIRA 13)6)
 64-70 '59.
 1. Odesskiy gosudarstvemmyy universitet ineni I.I. Mechnikova. (Differential equations, Partial)



8 63

SOURCE CODE: UR/0020/66/170/005/1020/1023	
ACC NRI AP6034750 SOURCE CODE: UN/0020/00/2/0/00/2/0/	
AUTHOR: Panich, O. I.	
ORG: Odessa Electrical Engineering Communications Institute (Odesskiy elektrotekhnicheskiy institut svyazi)	
TITLE: Elliptic boundary value problems with a parameter only in the boundary conditions	
SOURCE: AN SSSR. Doklady, v. 170, no. 5, 1966, 1020-1023	
TOPIC TAGS: elliptic function, houndary value problem, dirichlet problem	
ABSTRACT: In this paper elliptic boundary value problems are considered. The equa- tions of these boundary problems do not depend on the parameter, but the boundary con- ditions do. The case when both the equations and the boundary conditions depend on the parameter was examined by M. S. Agranovich and N. I. Vishik (UNN, 19, v.3(117), the parameter was examined for which the problem has a unique solution for fairly 1964). They found the criteria for which the problem has a unique solution for fairly large values of the parameter. The above results are generalized by the present author for the case when only boundary conditions depend on the parameter. The need for the solution of such a problem arose when equivalent regulation of elliptic bound- ary problems with the help of potentials was studied. A special representation of normal derivative solutions of the elliptic system is obtained through use of Dirichlet boundary data. This paper was presented by Academician I. G. Petrovskiy	
Card 1/2 UDC: 517.43	

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经运行 医脱杆体 化压杆器 法不能理论 的复数

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PANICH, O.I.

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SAN HANTPE REPRESENTATION FOR THE

Using the method of potentials in solving a system of Oseen's equations describing the steady flow of a viscous incompressible fluid past a plane contour. Part 1. Izv. vys. ucheb. zav.; mat. no.3:98-110 '62. (MIRA 15:9)

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1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova.

(Hydrodynamics)

5/140/62/000/006/002/006 E031/E435 The solution of Oseen equations for the steady flow 10,1200 Panich, 0.1. round a flat plate by a viscous incompressible fluid AUTHOR: TITLE: by the method of potentials. III PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika. The present paper is a continuation of two previous articles by the author (Izv.VUZ. Matematika. no.3, 1962 and no.4, 1962) in which the boundary problem,  $\Delta^2 u - 2k \frac{\partial \Delta u}{\partial x} = 0$  $u|_{L} = f_{0}, \frac{\partial u}{\partial n}|_{L} = f_{1}$ from which the solution of the stated problom can be determined, In this part the case of k tending to zero, The solution has i.e. for small Reynolds numbers, is discussed. was studied. A Nor Marther D Card 1/3

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The solution of Oseen ..

been sought in the form

 $u(P) = \overset{\wedge}{w_1}(P,\lambda) + w_2(P,\mu)$ 

Integral where the potentials are those previously defined. equations for  $\lambda$  and  $\mu$  in the limiting case of k tending to zero are derived. It is shown that the corresponding homogeneous equations have only a null solution, from which it follows that the actual (inhomogeneous) equations have unique solutions. considering the character of the flow for small Reynolds numbers, it is shown that the velocity components tend to zero as Expressions are deduced for the pressure and The pressure remains k tends to zero. the resistance of the medium in the limit. The case of a straight circular cylinder is considered to illustrate the theory. The expressions for the velocity components and the principal terms in the pressure are only valid near the cylinder but they are completely valid for calculating the resistance of the medium.

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S/140/62/000/001/008/011 c111/c444 The solution of the basic boundary ... is considered. The potentials  $w_1$  and  $w_2$  have in this special case the  $\hat{\Psi}_{1}^{(0)}(P,\lambda) = \frac{2}{\pi} \int_{\Omega} \lambda(Q) \Psi_{1}^{(0)}(P, Q) dS_{Q},$ shape (9.1)  $w_{1}^{(0)}(P,\mu) = \frac{1}{\pi} \int_{L} \mu(Q) \ln \frac{1}{R(P,Q)} dS_{Q} \qquad (9.2)$  $\Psi_{1}^{(0)}(P, Q) = \frac{\cos^{2}\theta(P, Q)}{R(P, Q)} - \chi(Q)\cos^{2}\theta(P, Q) - Q$ where  $-\frac{1}{4}\frac{\partial}{\partial s_{O}}\left\{ x\left(Q\right)\frac{\partial}{\partial s_{O}}\left[R^{2}\left(P,Q\right)\ln\frac{1}{R\left(P,Q\right)}\right]\right\},$ (9.3) it is the curvature of the closed boundary L,  $\Theta$  is the angle between the inner normal in Q and the vector  $\overline{R}$  (from Q to P). The limits of the potentials on the boundary are written down, and one investigates the properties of the potentials (among others in dependence on the kind of the boundary).  $w_2^{(0)}(P, \mu)$  is the usual potential of a simple layer and is shortly discussed. Thoroughly investigates is  $w_2^{(0)}$ , Card 2/4

5/140/62/000/001/008/011 The solution of the basic boundary ... C111/C444 especially one points out those properties which cannot be observed in the general case, and which only occur for a = b = 0, e. g. it is stated (theorem 3): If  $\lambda \equiv \overline{C}$  = const, and if the fourth derivatives of the parameter representation of L satisfy the Hölder condition in every system of coordinates, then there is  $w(0)(P,\overline{c}) \equiv 0$  in the inte-rior domain S<sub>i</sub> of L,  $\equiv -\overline{C}$  on L and  $\equiv -2\overline{C}$  in the exterior domain S<sub>e</sub>. Adjoining the interior and the exterior problem are formulated: I. Determine a solution u of  $\Delta^2 u = 0$ , being continuous in S<sub>i</sub> together with the first four derivatives, where  $u \in C_{z}$  in  $S_{i} + L$ ,  $u|_{L} = f_{0}$ ,  $\frac{\partial u}{\partial n}\Big|_{L} = f_1, f_0 \in H_3, f_1 \in H_2$  and where the fifth derivatives of the parameter representation of L satisfy the Hölder conditions. The solution with the set-up  $u(P) = w_1^{(0)}(P, \lambda) + w_2^{(0)}(P, \mu) + A\overline{w}(P)$ (10.13) where  $\Delta \overline{w} = \overline{v}$  in  $S_i$ ,  $\overline{w} \in H_3$  in  $S_i + L$ , v the solution of an auxiliary system, is reduced to a solvable system of integral equations. Card 3/4

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 $\begin{aligned} & s/140/62/000/001/008/011 \\ \text{The solution of the basic boundary ... Clill/C444} \\ \text{II. Determine a solution u of } & \Delta^2 u = 0, \text{ possessing four continuous} \\ & \text{derivatives in } S_{\theta}, \text{ where } u \in C_{5} \text{ in } S_{\theta} + L, u \mid_{L} = f_{0}, \frac{\partial u}{\partial n} \mid_{L} = f_{1} \text{ and } u \text{ is} \\ & \text{quasiregular at infinity, e. g. } u = 0(R_{0}); \\ & \frac{\partial u}{\partial x}, \frac{\partial u}{\partial y} = 0(1); \\ & \Delta u = 0 \left(\frac{1}{R_{0}^{2}}\right), \frac{\partial \Delta u}{\partial x}, \frac{\partial \Delta u}{\partial y} = 0 \left(\frac{1}{R_{0}^{3}}\right). \end{aligned}$ By the removal of certain logarithmical terms one forms out of  $w_{0}^{(0)}$  an auxiliary potential  $\widehat{w}_{1}$ , and by aid of the set-up  $u(P) = \widehat{w}_{1}(P,\lambda) + w_{2}^{(0)}(P,\lambda)$  one proves the unique solvability of the problem II. There are 2 Soviet-bloc references and one non-Soviet-bloc reference. ASSOCIATION: Odesskiy goaudarstvennyy universitet im. I. I. Mechnikova (Odessa State University im. I. I. Mechnikov) SUEMITTED; February 3, 1959 Card 4/4

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26458 s/140/61/000/003/004/009 c111/c333 16.3800 Panich, O. I. AUTHOR 8 The solution of the fundamental boundary value problem for a polyharmonic equation of fourth order in the plane TITLES with potential method. I Izvestiya vysshikh uchebnykh zavedeniy. Matematika, PERIODICAL: no. 3, 1961, 80-90 The author investigates the boundary value problem TEXT:  $\int_{-\infty}^{\infty} \frac{1}{2} u + 2a \Delta u + bu = 0$ (I) $\begin{aligned} \mathbf{u} \Big|_{\mathbf{L}} &= \mathbf{f}_{0} \\ \frac{\partial \mathbf{u}}{\partial \mathbf{n}} \Big|_{\mathbf{L}} &= \mathbf{f}_{1} \end{aligned}$ (II)where a, b are constants, L the boundary of the domain, <u>d</u> 3n Card 1/9 

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26458 5/140/61/000/003/004/009 C111/C333The solution of the fundamental . . derivative along the exterior normal. The author constructs potentials which reduce this problem to a regular system of Fredholm integral equations of second class, the solubility of which is proved. The present first part of the paper, consisting of 4 parts according to the author, contains a long introduction and the first two sections of the first chapter. In the introduction the author gives a survey on the possible boundary value problems for (I) and announces three further chapters. In the first chapter he constructs potentials which are investigated in the second one; in the third chapter the solubility of the problem (I),(II) is proved if the roots of the characteristic equation are positive; in the fourth chapter the biharmonic equation is investigated. In § 1 the author gives potentials for the polyharmonic equation of fourth order which are partially known and partially set up in an earlier paper of the author (Ref. 10: 0 potentsialakh dlya poligarmonicheskogo uravneniya chetvertogo poryadkh )[ On the potentials for the polyharmonic equation of fourth order ], Matem. sb., t.50 Card 2/9

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26458 s/140/61/000/003/004/009The solution of the fundamental ...  $v_{3}^{(0)}(\mathbf{P}, \mathbf{v}) = \frac{1}{4\pi} \int_{\mathbf{L}} \mathbf{v}(\mathbf{q}) \frac{\Im \varphi_{2}^{(0)}(\mathbf{P}, \mathbf{q})}{\Im n_{\overline{q}}} ds_{\mathbf{q}} \qquad (1.5)$   $v_{4}^{(0)}(\mathbf{P}, \mathbf{v}) = \frac{1}{4\pi} \int_{\mathbf{L}} \mathbf{v}(\mathbf{q}) \varphi_{2}^{(0)}(\mathbf{P}, \mathbf{q}) ds_{\mathbf{q}} \qquad (1.5)$ where  $\frac{\partial}{\partial n}$  -- derivative with respect to the interior normal, ds -element of arc,  $\Theta$  -- angle between  $\overrightarrow{n}_{\mathbf{q}}$  and  $\overrightarrow{\mathbf{qP}}$ . The characteristic equation  $p^{2} + 2ap + b = 0 \qquad (III)$ is assumed to have the roots  $p_{1}=k_{1}^{2} > 0$ ,  $p_{2}=k_{2}^{2} > 0(k_{1} > 0, k_{2} > 0)$ . Card 4/9

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$$\sum_{\substack{26h58\\S/140/61/000/003/004/009}} \frac{1}{111/0333}$$
  
If  $k_1 = k_2 = k$ , then the following potentials satisfy (I)  
 $v_1(P,v) = \frac{1}{2T} \int_{L} v(q) \frac{2}{2\pi_q} \left[ \varphi_1(P,q) - \frac{k_1^2 + k_2^2}{2} \varphi_2(P,q) \right] d^3q \quad (1.12)$   
 $v_2(P,v) = \frac{1}{2T} \int_{L} v(q) \left[ \varphi_1(P,q) - \frac{k_1^2 + k_2^2}{2} \varphi_2(P,q) \right] d^3q \quad (1.13)$   
 $v_3(P,v) = \frac{1}{45T} \int_{L} v(q) \frac{3\varphi_2(P,q)}{3\pi_q} d^3q \quad (1.14)$   
 $v_4(P,v) = \frac{1}{45T} \int_{L} v(q) \varphi_2(P,q) d_{sq} \quad (1.15)$   
card 6/9

CIA-RDP86-00513R001239



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$$\begin{array}{c} 31916\\ S/140/61/000/006/005/007\\ \\ \mbox{ind. These potentials $w_1(P, $\lambda$) and $w_2(P, $\lambda$) were investigated in the second part of the paper. In the present third part of the paper for the characteristic equation 
$$p^2 + 2ap + b = 0 \qquad (III)\\ \\ \mbox{the existence and uniqueness of the solution of problem IV_{01} is proved.}\\ \\ \\ \mbox{There one distinguishes between the inner and the outer problem. With the notations of part I and II of the paper the exact formulations satisfies the following conditions: a) in the domain S_i u possesses continuous derivatives up to the fourth order and satisfies \\ \\ \\ \mbox{} A^2u + 2a \Delta u + bu = 0 \qquad (7.1)\\ \\ \mbox{} b) u \in c_3 \text{ in } S_i + L\\ \\ \\ \mbox{} card 2/4 \end{array}$$$$



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31916 S/140/61/000/006/005/007 The solution of the basic boundary .... C111/C444The same assumptions hold for L, f<sub>o</sub>, f<sub>1</sub>. The author mentions S. L. Sobolev. IX There are 3 Soviet-bloc and 4 non-Soviet-bloc references. The reference to English-language publication reads as follows: Robert B. Davis: Asymptotic solutions of the fourth boundary partial differential equations. J. Rational Mech. and Analysis, v. 5, no. 3, p.605, 1956. ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova (Odessa State University im. I. I. Mechnikov) SUBMITTED: February 3, 1959 Card 4/4

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32734 s/140/61/000/004/007/013 16.3800 c'111/C222 Panich, O. J. AUTHOR: The solution with the aid of the potential method of the TITLE: fundamental boundary value problem for the polyharmonic equation of fourth order in the plane. II. Izvestiya vysshikh uchebnykh zavedeniy. Matematika, PERIODICAL: no. 4, 1961, 66-77 The present paper is a continuation of (Ref. 1, 0. J. Panich, TEXT: Resheniye odnoy krayevoy zadachi dlya poligarmonicheskogo uravneniya chetvertogo poryadka na ploskosti metodom potentsialov, I. [ The solution with the aid of the potential method of a boundary value problem for the polyharmonic equation of fourth order in the plane. I.] Izv. vuzov, Matem., Nr. 3, 1961). In (Ref. 1) the author considered the equation (1) $\Delta^2 u + 2a\Delta u + bu = 0$ and he defined the potentials  $v_1(P, v)$ ,  $v_2(P, v)$ ,...,  $v_6(P, v)$  for it. Х Card 1/3 

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 $\begin{array}{c} & S/140/61/000/004/007/013\\ \text{The solution with the aid of the ... C111/0222}\\ \text{The properties of the potentials v, are identical with the properties of the corresponding potentials v(<math>\overset{\circ}{\diamond}$ ) for the biharmonic equation  $\Delta^2$ u=0. Basing on these properties the author investigates the potential w<sub>1</sub> introduced in (Ref. 1) and he calculates the values of w, and its normal derivative on the boundary. 29 theorems are formulated altogether, e.g. Theorem A: If  $\lambda \in H_m(A, \alpha)$  on L, m = 0, 1 and L  $\in \mathcal{J}_2(B, \alpha)$ , then  $w_1(P, \lambda) \in H_m(A, \alpha')$  in  $S_1 + L$  and  $\overline{S_e} + L$ . Theorem B: If  $\lambda \in H_p(A, \alpha')$  on L,  $p \ge 2$  and  $L \in \mathcal{J}_{p+1}$  (B,  $\alpha$ ), then  $w_1(P, \lambda) \in H_p(cA, \alpha')$  in  $S_1 + L$  and  $\overline{S_e} + L$ . Theorem C: If  $\lambda \in I(A)$  on L and  $L \in \mathcal{J}_2(B, \alpha)$ , then  $\widetilde{w}_1(P, \lambda) \in H_0(cA, \alpha')$  in  $S_1$  and  $L \in \mathcal{J}_2(B, \alpha)$ , then  $\widetilde{w}_1(P, \lambda) \in H_0(cA, \alpha')$  on L. Theorem E: If  $\lambda \in I(A)$  on L and  $L \in \mathcal{J}_3(B, \alpha)$ , then  $\frac{\Im \widetilde{w}_1(P, \lambda)}{\Im n_p} \in H_0(cA, \alpha')$  on L.

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32734 S/140/61/000/004/007/013 The solution with the aid of the ... 0111/0222 Here L is a simple curve dividing the plane into the inner part  $S_i$  and the outer part  $S_{e}$ ;  $\overline{S}_{e}$  is an arbitrary finite part of  $S_{e}$ . It holds  $f(x) \in H_{(A, \infty)}, 0 < \infty \leq 1$  if for all k = 0, 1, ..., p it holds  $|f^{(k)}(x)| \leq A$ ,  $|f^{(k)}(x_1) - f^{(k)}(x_2)| \leq A |x_1 - x_2|^{\alpha}$ . A curve belongs to the class  $\mathcal{M}_{p}(A, d)$  if its parameter representation belongs to Hp(A, d), The author mentions N. M. Gyunter. There are 3 Soviet-bloc references. ASSOCIATION: Odesskiy gosudarstvennyy universitet im. J.J.Mechnikova (Odessa State University im. J. J. Mechnikov) SUBMITTED: February 3, 1959 Card 3/3

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KOROLEW, P.G. [Korol'ov, P.H.]; PANICH, P.N. [Panych, P.N.]; Dust protecting device for the land wheel bushing of the P-5-35M plow. Makh. ail', hosp. 9 no.10:28-29 0 '58. (MIRA 11:10) 1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk. (Plows) 

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网络国际国际委任政会委员会 计全部分子 的复数形式 **VERSENER** 2 CA Determination of the rhoological characteristics of structured liquids with the aid of the relation viscometer. R. M. Fankeh and S. S. Voyutakil. Zeredakays (2.4). 15, h00.3(1949).—The limiting viscosity w., the extra-polated viscosity we at very low rates of abear, and the crit-rate of aheas (dx/ds), will a rubber dispersion "revultes" detd, at 15° with the aid of a cylindrical rotation viscom-ter from plots of the angular viscosity against the load, resp., by the cotangent of the slope of the reetlinear por-tion, the tangent of the plops of the tangent at  $\omega = 0$ , such the point at which the extre of a arkingt dx/ds goes over into a straight line parallel to the ratis of abecians, were practically identical with the values obtained by measurements with a capillary viscometer. The curve of v against dy/ds obtained with the 2 instruments coincide. N. Then 

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The machanism of golation of leaves. R. M. Jankh, K. A. Kai yanow, and S. S. V. Zittal (Ent. The Chem. The lates of works). A column is a tabilized with Nt, mathematican of the lates of 200 the action of the component of the lates of 200 the action of the comtext of the lates of 200 the action of the comtext of the lates of 200 the action of 200 the action of 200 the lates of 200 the the the the component of the provent indication the provent indit action the provent indication the prov

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CIA-RDP86-00513R001239

# PANICH, R. H. "Aggregative Stability of Dispersed High Polymers (Latexes) and the Electrokinetic Potential of Their Particles." Cand Chem Sci, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov, Min Higher Education USSR, Moscow, 1955. (KL, No 16, Apr 55) SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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PANICH, R.M.; KONOVALOVA, N.V.; GONSOVSKAYA, T.B.; SANDOMIRSKIY, D.M.; VOYUTSKIY, S.S.

> Properties of latexes prepared with the aid of nonionic stabilizers. Part 2: Butadiene-styrene latexes. Koll. zhur. 27 no.4:589-592 Jl-Ag '65. (MIRA 18:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova. Submitted March 7, 1964.

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**新建制建的新闻**参考。

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L 02368-67 EWT(m)/EWP(y)/EWP(j)/T IJP(c) WW/RM ACC NR: AP6032179 SOURCE CODE: UR/0069/66/028/005/0772/0773 AUTHOR: Dogadkin, B. A.;; Panich, R. M.; Fodiman, N. M.		
ORG: none		
TITLE: Sixtieth anniversary of <u>S. S. Voyntskiy</u>		
SOURCE: Kolloidnyy zhurnal, v. 28, no. 5, 1966, 772-773		`
TOPIC TAGS: latex, polymer compatibility, plasticization, leather substitute, polymer adhesion, polymer cohesion, chemical personnel, colloid chemistry macromolecular chemistry ABSTRACT: Professor, Doctor of Chemical Sciences, S. S. Voyntskiy is a prominent expert in the fields of colloidal chemistry and of the physics and chemistry of high-molecular weight compounds. His studies include the following topics: physics		
and chemistry of latexes; compatibility and plasticization of <u>polymers</u> ; leather substitutes, special cardboards, and paper; and nonwoven filtering materials. His studies on the cohesion and <u>adhesion</u> of polymers resulted in the development of the diffusion theory of adhesion. Voyntskiy is associated with the following institutions <u>Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov; Institute of Light</u> <u>Industry; and the Scientific Research Institute of Leather Substitutes.</u>	<u> (</u>	1

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