



"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000



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SOURCE CODE: UR/0000/06/000/000/0236/0237 . MUTHOR: Luzin, R. A.; Nevskaya, G. F.; Popov, V. I.; Sychkov, M. A.; <u>Shafirkin, A.V.</u> Yurgov, V. V.; Abramova, G. M.; <u>Ginzburg, Ye. V.</u> ; Kalandarova, M. P. ONG: none TITLJ: Experimental investigation of the effectiveness of local radioprotective shielding (Paper presented at the Conference on Problems of Space Modicine held in Noscow from 24-27 May 1966/ SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsil, Noscow, 1966, 236-237 TOPIC TAGS: radiation shielding, solar flare, cosmic radiation biologic effect, radiation protection, radiation dosimetry ABSTRACT: Many difficulties are encountered in selection of a radiation field with- in the limits of the irradiated object must not vary more than ±10%. The dose differential among absorbed doses must not exceed ±10%, Local shielding must produce at least a tenfold weakening of the dose. Further- more, dose power must be sufficiently high to model solar flares, con- tore 1/3	AUTHOR: Juzin, R. A.; Nevskaya, G. F.; Popov, V. I.; Sychkov, M. A.; <u>Shafirkin, A.V.</u> Yurgov, V. V.; Abramova, G. M.; <u>Ginzburg, Ye. V.;</u> Kalandarova, M. P. DAG: none TITLJ: Experimental investigation of the effactiveness of local radioprotective shielding (Paper presented at the Conference on Problems of Space Medicine held in Noscow from 24-27 May 1966/ SOURCJ: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space Medicine); materially konferentsii, Noscow, 1966, 236-237 TOPIC TAGS: radiation shielding, solar flare, cosmic radiation biologic effect, radiation protection, radiation dosimetry ABSTRACT: Many difficulties are encountered in selection of a radiation field with- in the limits of the irradiated object must not vary more than ±10%. The dose differential among absorbed doses must not exceed ±10%, Local shielding must produce at least a tenfold weakening of the dose. Further- more, dose power must be sufficiently high to model solar flares, con-			4
 Yurgov, V. V.; Abramova, C. M.; Unnedrighted viewers and an analysis of the set of the effectiveness of local radioprotective shielding (Paper presented at the Conference on Problems of Space Medicine held in Roscow from 24-27 May 1966) SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 236-237 TOPIC TACS: radiation shielding, solar flare, cosmic radiation biologic effect, radiation protection, radiation dosimetry ABSTRACT: Many difficulties are encountered in selection of a radiation method suitable for study of the effect of local shielding. The radiation field with-firs the limits of the irradiated object must not vary more than ±10%. The close differential among absorbed doses must not exceed ±10%, Local shielding must produce at least a tenfold weakening of the dose. Furthermore, dose power must be sufficiently high to model solar flares, con- 	 Yurgov, V. V.; Abramova, G. M.; Uniputing and V.; Katalabero, and State of the shielding (Paper presented at the Conference on Problems of Space Modicine held in Koscov from 24-27 May 1966) SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 236-237 TOPIC TAGS: radiation shielding, solar flare, cosmic radiation biologic effect, radiation protection, radiation dosimetry ABSTRACT: Many difficulties are encountered in selection of a radiation method suitable for study of the effect must not vary more than ±10%. The dose differential among absorbed doses must not exceed ±10%, Local shielding must produce at least a tenfold weakening of the dose. Furthermore, dose power must be sufficiently high to model solar flares, con- 	CC NR: ATG036600	SOURCE CODE: UR/0000/66/000/006/0236/0237	
 DAG: none TITLJ: Experimental investigation of the effectiveness of local radioprotective shielding (Paper presented at the Conference on Problems of Space Modicine held in Noscow from 24-27 May 1966) SOURCJ: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space Medicine); materially konferentsii, Moscow, 1966, 236-237 TOPIC TAGS: radiation shielding, solar flare, cosmic radiation biologic effect, radiation protection, radiation dosimetry ABSTRACT: Many difficulties are encountered in selection of a radiation method suitable for study of the effect of local shielding. The radiation field within the limits of the irradiated object must not vary more than ±10%. The dose differential among absorbed doses must not exceed ±10%. Local shielding must produce at least a tenfold weakening of the dose. Furthermore, dose power must be sufficiently high to model solar flares, con- 	 DNG: none TITLJ: Experimental investigation of the effectiveness of local radioprotective shielding (Paper presented at the Conference on Problems of Space Modicine held in Noscow from 24-27 May 1966) SOURCJ: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space Medicine); materially konferentsit, Moscow, 1966, 236-237 TOPIC TAGS: radiation shielding, solar flare, cosmic radiation biologic effect, radiation protection, radiation dosimetry ABSTRACT: Many difficulties are encountered in selection of a radiation method suitable for study of the effect of local shielding. The radiation field within the limits of the irradiated object must not vary more than ±10%. The dose differential among absorbed doses must not exceed ±10%. Local shielding must produce at least a tenfold weakening of the dose. Furthermore, dose power must be sufficiently high to model solar flares, con- 	AUTHOR: Euzin, R. A.; Nevskaya, (Yurgov, V. V.; Abramova, G. M.; G	G. F.; Popov, V. I.; Sychkov, M. A.; <u>Shafirkin</u> , A. insburg, Ye. V.; Kalandarova, M. P.	v
ABSTRACT: Many difficulties are encountered in selection of a radiation method mutable for study of the effect of local shielding. The radiation field with- in the limits of the irradiated object must not vary more than $\pm 10\%$. The lose differential among absorbed doses must not exceed $\pm 10\%$. Local shielding must produce at least a tenfold weakening of the dose. Further- more, dose power must be sufficiently high to model solar flares, con-	ABSTRACT: Many difficulties are encountered in selection of a radiation method mutable for study of the effect of local shielding. The radiation field with- in the limits of the irradiated object must not vary more than $\pm 10\%$. The lose differential among absorbed doses must not exceed $\pm 10\%$. Local shielding must produce at least a tenfold weakening of the dose. Further- more, dose power must be sufficiently high to model solar flares, con-	DAG: none HITLJ: Experimental investigatio shielding (Paper presented at the Socow from 24-27 May 1966) SOURCJ: Konferentsiya po problem kosmicheskoy meditsiny. (Problem Noscow, 1966, 236-237 TOPIC TAGS: radiation shielding,	on of the effectiveness of local radioprotective Conference on Problems of Space Medicine held in nam kosmicheskoy meditsiny, 1966. Problemy ns of space medicine); materialy konferentsii, , solar flare, cosmic radiation biologic effect,	
Cora 1/3	Coru 1/3	ABSTRACT: Many difficulties are encount suitable for study of the effect of in the limits of the irradiated obj dose differential among absorbed shielding must produce at least a	tered in selection of a radiation method local shielding. The radiation field with- ject must not vary more than $\pm 10\%$. The doses must not exceed $\pm 10\%$. Local a tenfold weakening of the dose. Further-	
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	dose decreased 10-15 times behind the shield. Thus the method described satisfies all the requirements listed above, and can be used in radiobiological study of the effectiveness of local shielding. (W) A. No. 22; ATD Report 66-116/		•	
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GOL'DFEL'D, A.Ya., doktor med, nauk; GINZBURG, Ye.Ya.; DULTASLIY,
S.O., prof. [deceased]; ICHATOV, S.I., prof. ERAVETS, E.M.,
doktor med. nauk; LEPSKIY, Ye.M., prof. [deceased];
NEBYTOVA-LUK'YANCHIKOVA, M.N., prof.; SPERANSKIY, G.N.;
TUR, A.F.; LONBROVSKAYA, Yu.F., otv. red.; BUBNOVA, M.M., prof.;
red.; VIASOV, V.A., prof., red.; GECHISHNIKOVA, L.V., red.;
LEBEDEV, D.D., prof., red.; MASLOV, M.S., red.[deceased];
NOGINA, O.P., kand. med.nauk, red.; NOSOV, S.D., prof., red.;
SOKOLOVA-PONOMAREVA, O.D., red.; TERNOVSKIY, S.D., red.
[deceased]; KHOKHOL, Ye.N., red.; ZHUKOVSKIY, M.A., starshiy
nauchnyy sotr., red.; MAZURIN, A.V., kand. med. nauk, red.;
ZAKHAROVA, A.I., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe ukovodstvo po pediatrii. Noskva, Medgiz. Vol.2. 1961. 566 p.

(MIRA 15:8) 1. Chlen-korrespondent Akademii nauk SSSR deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Speranskiy). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Tur, Dombrovskaya, Maslov, Sokolova-Foromareva). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Ternovskiy, Khokhol). (PEDIATRICS)



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SO: Sum. No. 480, 9 May 55.

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1. Nachal'nik otdela tekhnicheskogo kontrolya zavoda "Transsignal"
(for Ignatyuk).
2. Nachal'nik kontrol'no-izmeritel'noy laboratorii zavoda
"Transsignal!" (for Gingburg).
(Railroads--Signaling)

454

CIA-RDP86-00513R000

CHAKLIN, V.D., prof.; GINZBURG, Yu.B., kand. med. nauk

Myofasciodesis in insufficiency of the gluteal muscles following poliomyelitis. Ortop., travm. i protez. 26 no.1:39-44 Ja '65. (MIPA 18:5)

1. Iz kliniki detskoy ortopedii (zav. - Ye.A. Abal'masova, nauchryy konsul'tant - chlen-korrespondent AMN SSSR prof. V.D. Chaklin) TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov) na baze Moskovskogo ortopedicheskogo gospitalya (nachal'nik - doktor med. nauk S.N. Voskresenskiy). Adres avtotov: Moskva Zh-44, 2-ya Dubrovskaya ul., d.13. Ortopelicheskiy gospital'. "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

SHAKOY, I.1., dotsent: GINDBURG, Yu.1.

Ursthral-venous reflue. Meater fam. 1 rtd. 38 no.3145-51 My-Je 103. (M TA 12:7)

 Iz kafedry renegenologis i radiologii (zav. - dutaent s.1. Shukov) - restandahoga tastusate useverabeneters ruta vrachey ist rentgenevakegs endeleniya Bakinabay generatoy klinisheatoy bellaisay No.1. imeni N.A. Somachis.





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· ... 101-4-12/13 USSR/Tubular Mills SUBJECT: Ginzburg, Yu.N., Engineer AUTHCR: Tubular Vills (C futerovke trubnykh mel'nits) About Lining TITLE: Tsemant , 1957, # 4, p 31, (USSR) PERIODICAL: Efficiency of tubular ball mills depends to a certain extent on how the profile of its lining complies with two basic con-ABSTRACT: 1. It should correspond with the ginding surface and insure highest possible density, and 2 the contact between the balls as well as between the balls -end the lining ought to be as close as possible. It is necessary to classify the balls in relation to the length of the mill in such a way that the size of grinding surfaces decreases gradually towards the discharge section. [Reported in Revue des Materiaux de Construction ("C"), 1956,# 481-484] PRESENTED BY: SUBMITTED: At the Library of Congress AVAILABLE: Card 1/1







"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 Classical September 17, 2002 CIA-RDP86-00518R0005

AUTHOR:	GINZBURG, Yu.P. 20-2-2/50
TITLE:	On J-Non-Stretching Operator Functions (O J-nerastyagivayush- chikh operator-funktsiyakh)
PERIODICAL:	Doklady Akademii Nauk 1957, Vol. 117, Nr 2, pp. 171-173 (USSR)
ABSTRACT:	Let L_ and L_ be mutually orthogonal complementary sub-
	spaces of the Hilbert space H. Let the operator J be defined by $J = E_{+} - E_{-}$, where E_{+} is the projector on L_{+} .
	(f,g) lenctes the scalar product in H. Let a nondegenerated indefinite metric be introduced in H with the aid of the "scalar product" $[f,g] = (Jf,g)$. The author considers linear bounded operators in H. The operator U is denoted to be J-unitary, if the inverse operator of U exists in H and if $[Uf, Ug] = [f,g]$ for $f,g \in H$. The operator Y is denoted to be J-non-stretching, if $[Yf, Yf] \leq [f,f]$. Y is denoted to be two-sided J-non-stretching, if Y as well as Y* are J-non- stretching. Theorem: The tranformation
	(1) $X = (E_{\downarrow} Y - E_{\downarrow})(E_{\downarrow} - E_{\downarrow}Y)^{-1}$
Card 1/4	generates a one-to-one correspondence between the set of all two-sided J-non-stretching operators Y and a certain subset

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On J-Non-Stretching Operator Functions

20-2-2/50

of the set of the non-stretching operators X, $||X|| \leq 1$.

Theorem: Let Y be a two-sided J-non-stretching operator. U is assumed to be J-unitary and R an operator with a nonnegative spectrum and with the property that JR is self-adjoint. In order that Y admits the representation Y = UR each of the following conditions is sufficient 1.) It exists Y⁻¹; 2.) Y is of the Fredholm type. Here R is uniquely determined by Y. In the case 1) this holds also for U. The operator-function Y (ς) is said to belong to the class $\mathfrak{I}_{,}$ if a.) Y($\mathfrak{I}_{,}$ is holomorphic in the unit circle (at most except denumerably many points); b.) it exists a $\mathfrak{I}_{,}$, $|\mathfrak{I}_{,}| \leq 1$, so that Y⁻¹($\mathfrak{I}_{,}$) exists and J-Y * ($\mathfrak{I}_{,}$) JY($\mathfrak{I}_{,0}^{\circ}$) is completely continuous; c.) Y($\mathfrak{I}_{,}$ is also J-non-stretching in all points in which the function is holomorphic. The function Y($\mathfrak{I}_{,}$) is said to belong to the class $\mathfrak{I}_{,}^{s}$, if it belongs to $\mathfrak{I}_{,}$ and if in the unit circle there exists a point $\mathfrak{I}_{,}^{\circ}$ with sp $\left\{ J-Y^{*}(\mathfrak{I}_{,})JY(\mathfrak{I}_{,0}^{\circ} \right\} < \infty$. Theorem: If Y($\mathfrak{I}_{,} \in \mathfrak{I}_{,}$, then Y($\mathfrak{I}_{,}$ and Y⁻¹($\mathfrak{I}_{,}^{\circ}$) are holomorphic

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On J-Non-Stretching Operator Functions 26-2-2/50in $|\xi| \leq 1$, at most except in a set of isolated points in which $Y(\xi)$ and $Y^{-1}(\xi)$ possess poles. Here the highest soefficient of the Laurent series in the near of the role is a finite-dimensional operator. Theorem: Let $Y(\xi) \in \Re_{J}^{-3}$. The infinite products $\mathcal{A}^{(I)}(\zeta) =$ $= \frac{\infty}{k+1} b_k^{(I)}(\zeta)$ and $\mathcal{A}^{(II)}(\zeta) = \frac{\infty}{k+1} b_k^{(II)}(\zeta)$ formed over the poles of Y^{-1} and Y converge uniformly with respect to the norm whereever $Y(\zeta)$ is holomorphic. Here it is $Y(\zeta) =$ $= Y_0(\zeta) \mathcal{A}^{(I)}(\zeta) \cdot \mathcal{A}^{(II)}(\zeta)$, where $Y_0(\zeta)$ is an operator function of the class \mathfrak{D}_{J}^{-5} holomorphic in $|Y_{0}| \leq 1$ simultaneously with $Y_0^{-1}(\zeta)$. Theorem: It holds the representation $Y_0(\zeta) = U_0 \int \exp\left\{-\frac{e^{i\mathcal{A}(t)} + \mathcal{A}}{e^{i\mathcal{A}(t)} + \zeta} d \in (t)\right\}$, where U is a J-unitary operator, $\mathcal{A}(t)$ a monotonely decreasing function $(0 \leq \mathcal{A}^{-}(t) \leq 2\pi)$, $J \ge (t)$ denotes a hermitian

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 BR0005 On J-Non-Stretching Operator Functions 20-2-2/50 . increasing operator function (t = sp JE(t)) and \int is a multiplicative integral. 5 Soviet references are quoted. Jis a ASSOCIATION: State Pedagogical Institute inchi K.D.Ushinskiy, Odessa (Odesskiy gosudarstvennyy pedatogicheski; institut imeni K.D. Ushinskogo) PRESENTED: By S.L. Sobolev, Academician, 31 May, 1957 SUBMITTED: 20 October, 1956 AVAILABLE: Library of Congress

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GINZBURG, Z.

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Operation of a consolidated automotive transportation unit of the Leningrad Economic Council. Avt.transp. 40 no.11:31-32 N 162. (MIRA 15:12)

1. Zamestitel' nachal'nika otdela avtomobil'nogo transporta transportnogo upravleniya Leningradskogo soveta marodnogo khozyaystva. (Leningrad--Transportation, Automotive)



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GINZBURG, Zinovij Borisovich

Kak nakhodit' i ustraniat' povrezhdeniia v priemnikakh. /How to locate and eliminate disturbances in radio receivers7. Moskva, Gos. energ. izd-vo, 1948. 816 p. diagrs. DLC: TK6563.G5

Samodel'nye detali dila sel'skogo radiopriemnika. /Homemade parts for a rural radio receiver/. Moskva, Moskovskii rabochii, 1950. 69 p. illus. Bibliography: p. /71/. DLC: TK9956.35

Zvukozapis'. /Sound recording/. (Eksponaty 7-i Vsesoiuznol zaochnoi radiovystavki). Rekomendovano v kachestve posobiia dlia radioklubov. Moskva, Gos. energ. izd-vo, 1949. 47 p. (Massovaia radio-bibliotekc. vyp. 48). DLC: Slavic unclass.

SO: Soviet Transportation and Communications, A Biblicgraphy, Library of Congress, Reference Department, Washington, 1952, Unclassified. "APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 FA D/49T91 CIA-RDP86 20513R0005

> USER/Radio Jan 48 Television - Receivers Television - Transmission "Reception of Television Around Moscow," Z. Ginzburg, 2 p "Radio" No 1 Results of tests conducted on two television receivers, one located 29 km from the transmitter, and the other, 32 km from the transmitter. 3/49791









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GINZBURG, Z.

UBSR/Radio - Generators, Bighal Aug 49 Directors, Dumsy

"A Standard Signal Generator," Z. Ginzburg, 3 pp

"Radio" No 8

K. V. Kravchenko, a L'vov radio amateur. WHS awarded a prize for his universal signal generator at the Eighth Radio Exhibition. The generator contains a high-frequency oscillator (50 kc to 27 mc), a quartz calibrator, and audiofrequency oscillator (17 signals from 100 to 9,000 cycles), an IM oscillator, a vacuum-tube voltameter and a modulation monitor, This signal generator is a precision instrument which should prove useful in laboratory vork. 66/49T102













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PATSIORA, P. P. ; GINZBURG. Z. B.

Patsiora, P. P.

Good bookdon the electrification of lumbering operations ("Electrification of lumbering operations." P. P. Patsiora, Z. B. Ginzburg. Reviewed by Eng. V. A. Tielebrovskiy), Les. prom., 12, No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, <u>Cctater</u> 1958,2Uncl.





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america in 2.

The Committee on Stalin Prizes (of the Council of Ministers WEER) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskays Kultura, Moscow, No. 22-40, 20 Peb - 3 Apr 1954)

<u>.</u>

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Patsiora, P. P. Belyayov, ^D. C. Ginstary, J. B. Aloktroev, ^V. A. Almarov, A. ^A. Series of textbooks and s alonts manuall on the electrification of timbor felling - Kosoow Ferstry Engineering Institut

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80: W-30604, 7 July 1954



"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 **BR0005** 47,2002 YBUYUTIN, Vyacheslav Vyacheslavovich; GINZBURG, Z.B., redaktor; YEFEEMOVA, Ye.V., redaktor; KARIAKINA, M.S., tekhnicheskiy redaktor [How to tune superheterodyne recievers] Kak naladit' supergeterodin-nyi prismnik. Moskva, Isd-vo DOSAAF, 1956. 60 p. [Microfilm] (Radio-Receivers and reception) (HIRA 10:4) [Microfilm] (HIRA 10:4) .

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MIKHLIN, Berka Zys'yevich; HERG, A.I., redaktor; DZHIGIT, I.S., redaktor; RULIKUVSKIY, A.A., redaktor; SHIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; GHECHIK, P.O., redaktor; SHANSHUR, V.I., redaktor; GHECHURG, Z.B., redaktor; GHERNOV, V.S., tekhnicheskiy redaktor
[Electronic instruments for production control] Radioelektronnye pribory dlis proizvodstvennogo kontrolia. Moskva, Gos. energ. izd-vo, 1956. 62 o. (Mossovaia radiobiblioteka, no.258) (Automatic control) (Electronic instruments) (Production control)











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BEL'SKIY, Iosif Remanovich, dotsent, kand.tekhn.nauk; VORONITSYN, K.I., retsenzent; GINZBURG, Z.B., starshiy prepodavatel', retsenzent; ZHESTYANIKOV, V.M., red.; PITERMAN, Ye.L., red.izd-va; PARAKHINA, N.L., tekhn.red.

> [Electrical equipment for lumbering enterprises] Elektrooborudovanie lesozagotovitel'nykh predpriiatii. Moskva, (boslesbumizdat, 1960. 406 p. (MIRA 13:5)

 Moskovskiy lesotekinicheskiy institut (for Ginzburg). (Lumbering--Equipment and supplies) (Electric machinery)




CIA-RDP86-00513R000 CIA-RDP86-00513R0005

GINZBURG, Z.I.

Outcome of pulmonary tuberculomas. Probl. tuberk. 41 no.2:26-30 '63. (MIRA 17:2)

1. Iz terapevticheskogo otdeleniya (rukovoditel' - prof. S.M. Kuznetsova) Leningradskogo nauchmo-issledovatel'skogo instituta tuberkuleza (dir. - prof. A.D. Semenov).



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		AID P - 5611	
Subject	:	USSR/Engineering	
Card 1/1	Pu	b. 107-a - 11/12	,
Author	:	Ginzburg, Z. L.	
Title	:	Scientific and Technical Conference on Welding in the Machine-Building Industry.	
Periodical	:	Svar. proizv., 12, 29-30, D 1956	
Abstract	:	A concise report on proceedings of the conference held on 16 to 19 October, 1956, in Khar'kov, in which some 200 delegates representing scientific and industrial organizations participated. The author outlines 24 reports delivered there on welding and related sub- jects.	
Institution	s :	Electrowelding Institute im. Paton, Central Scientific Research Institute of Machine-Building Technology (TSNIITMASh), Scientific Research Institute of Chemical Machine Building (NIIKhIMMASh), and others.	
Submitted	:	No date	



GINEBERG, 22.

AUTHOR: Ginzburg, Z.L., Angineer,

128-58-4-15/18

- TITLE: Scientific-Technical Jession on Progressive Pechnology of Casting Molds (Nauchno-tekhnicheskaya sessiya po progressivnoy tekhnologii liteynoy formy)
- PERIODICAL: Liteynoye Proizvodstvo, 1958, No. 4, pp 28-30 (USSR)
- A conference on the technology of casting molds organized **ABSTRACT:** by the NTOMAShFROM of the Khar'kov Oblast' - convened in Khar'kov on 14-16 November 1957. More than 200 delegates from plants, research institutes, vuzes and other organizations of the Khar'kov and other regions participated. Problems of earth-mold casting were discussed. A total of 24 reports were delivered on hardening and exothermic mixes and the mechanized processes in USSR and abroad. B.A. Noskov and V.I. Ryzhkov (KhPI) gave information on molding sand and clay available in the Khar'kov economic region. The following reports were also heard: V.V.Ryabova - on the use of carbon dioxide, at NKMZ, for chemical strengthening of molds, which has reduced the drying period and cut the consumption of generator gas, improved the quality of castings, and nearly Card 1/5

128-50-4-15/18 Scientific-Fechnical Session on Progressive Technology of Casting Holds

> doubled the production of molds; N.Kh. Ivanov - on the use of the same quick-hardening mixes, with cold carbon dioxide, at the Slavyanskiy mashinostroitel'nyy zavod (Slavyansk Eachinebuilding Flant); Engineer D.A. Lur'ye (Giprostanok) - on modern methods and an installation for production of carbon dioxide; Engineer Ye.F. Tolmachev of the Voroshilovgradskiy teplovozostroitel'nyy zavod (Voroshilovgrad Diesel-Locomotive Plant) on experience with molding sand milled in a special vibration mill, which solves the problem of obtaining castings with a clean surface not only with shell molds, but also with conventional molding methods; A.Ya. Izmalkov - on the oil-less binder "P" used at the plant "Serp i Molot"; A.I. Veynik - on the theory of forced cooling of castings and the experience in this method at the Novo-Kramatorskiy i Minskiy stankostroitel'nyy zavodov (Novo-Kramatorsk and Minsk Machine Tool Plants) which developed this method in the production of large castings; I.V. Ryzhov - on the physico-chemical nature of sand crust (on castings) and the ways of eliminating this crust by producing a de-oxidizing atmosphere between the mold and the metal, casting in vacuum, or crystallization-preventivo additions to water glass; P.G. Novikov (of FSNIITMASh) - on

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results of the collective work of TSNIITMASh and NKMZ on technological problems of the production of large molds, and the new method of forced or controlled cooling of castings in the ground, as well as on the experiments with a system of universally applicable cast parts; B.K. Dymshin of the Khar :kovskiy turbinnyy zavod (Khar'kov Turbine Plant) and Engineer I.Ye. Gabey (NKMZ) - on exothermic mixes for heating the feeding heads of steel and cast iron castings; H.L. Turovskiy on investigation of internal stresses at the Khar'kovskiy zavod transportnogo mashinostroyeniya (Khar'kov Plant of Transport Machines); V.S. Ladnov - on mechanized casting into shell molds by shot-strewing the mold boxes, being introduced at the same transport machine plant; K.I. Kostinenko - on the organization of boxless molding at the plant Rostsel'mash; N.A. Gerasimov of the Aremenchugskiy zavod dorozhnykt mashin (Kremenchug Road Machine Plant) - on casting parts in molds pro-duced under pressure up to 100 kg/cm², without mold boxes, which nearly completely eliminates the necessity of machining the castings and greatly reduces the consumption of foundry materials and metal; A.M. Petrichenko of the Khar'kovskiy

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avtodorozhnyy institut (Khar'kov Auto-Road Institute) - cn the experience of the Chinese Democratic depublic with semipermanent molds for thin-wall castings; Ye.A. Sukhodol'skaya of the Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute) - on some peculiarities of foundry technology in China; V.D. Bezuglov of the Khar'kovskiy zavod zubovrachebnykh materialov (Khar'kov Plant of Dentistry Materials) - on self-hardening plastics "AST" which is readily machineable, well suited for decorative correction of surface faults on metal castings, and also for making light core boxes, press-molds for wax patterns, etc. The conference recommended that the Khar'kov Sovnarkhoz organize the exploitation of molding sands and clays in the region and a centralized production of carbon dioxide. The conference pointed out the necessity of extensive use of quick-drying mold mixes, forced cooling of castings, exothermic mixes for heating the feeding heads, and the necessity to introduce the shell-mold and the chill-casting methods. The method of making molds

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	under high pressure was recommended for use. The importance of the Khar'kov Dentistry Materials Plant and KhlZ work with self-hardering plastics for foundry use was emphasized.			
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AUTHOR: Ginzburg, Z. L.

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- TITLE: Scientific-Technical Conference on Metallography and Heat Treatment, Khar'kov (Nauchno-tekhnicheshaya konferentsiya po metallovedeniyu i termicheskoy obrabotke, Khar'kov)
- PERIODICAL: Metallovedeniye i Obrobotka Metallov, 1958, Nr 5, pp 53-57 (USSR)
- AESTRAJT: The conference was organised by the Khar'kov
 Directorate of the Scientific-Technical Society of the Engineering Industry jointly with the Sovnarkhos to celebrate the 40th anniversary of the October Revolution.
 About 200 research workers, engineers and technicians participated. Candidate of Technical Sciences V.V.Gavranek read s paper on the achievements of Soviet science and engineering in the field of metals technology an heas treatment during the fort; years of Soviet rule.
 Doctor of Technical Sciences, Professor F. P. Petrosyan, Khar'kov Institute of Railway Engineers, read the paper "On the Mechanism of Transformation of Super-scied
 Card Austenite". He empressed the view that the transformation of super-cooled austenite in the temperature range

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 $\boldsymbol{\Lambda}_1-\boldsymbol{M}$ can be considered as proceedes limbed with preliminary falling out of carbon from the subsequent, which is a necessary condition for the subsequent polymorphous $\gamma \rightarrow \alpha$ transformation to proceed. There is a qualitative relation between the duration of the incubation period and the transformation mechanism in the entire temperature range A1-M.

Candidate of Technical Sciences I. M. Lyubarskiy and Engineer O. M. Podgorna, Khar'kov Works for Building Transport Machinery imeni Malychev, dealt with the changes in the characteristics of rubbing surfaces. Until recently the problems of wear and friction were not considered from the metallurgical point of view; the first experiments in this respect have shown how fruitful metallurgical investigations of rubbing surfaces can be. During the process of friction important structural and physico-chemical changes take place in the active layer. The nature and the dynamics of the changes during friction of the "white zone" was considered. In this part of the Card 2/20 paper the influence of the white zone on the operational

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129-59-5-15/17 Scientific-Technical Conference on Metallography and Heat Treatment, Khar'kov properties of the components was elucidated. Practical experience has shown that most failures are due to fatigue. A very effective method of increasing the stable strength of components is by surface work hardeninj. Candid te of Technical Sciences A. A. Hovik and Engineer V. I. Muzhikov reported on the work of the Khar'kov Works for Building Transport Machinery in the paper "Surface Work Hardening as an Effective Method of Increasing the Fatigue Strength of Highly Stressed Components". The highest sensitivity to failure was observed in components which contain stress concentrators inherent in the design. Surface work hardening of such components gives better results and is technologically more suitable than shot peening. Work hardening by means of rolls is suitable for components like gears shafts, etc. Work hardening of friction discs and of cylinder jackets of diesel engines by shot peening proved highly effective. Card 3/20 In his paper Engineer D. B. Boskoboynikov dealt with

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Scientific-Technical Conference on Metallography and Heat Treatment, Khar'kov at first and then shouly approach the respective value of the core. The structures of the cast hardened happen obtained by shot peoring and work hardening by polle differ considerably. Condidate of Technical Jule cost 2. I. European and Engineer Sh. R. Debraching reports and the high strength alloy steel 1500Nut (0.11-0.1% C, 1.1-1.5% Mg 0.15-0.30% Si, 0.30-0.40% Cg, 0.00-0.10% Ti, 0.04-0.06% Al) which was fourloped by the Ultrainian Research Institute; manguage-theating for altriation for alloy speer for increasing the strength at her trajectures. For elucidating the mechanics of the influence of titanium on the properties of steels of the section and the the the presence of titanium is the cost of the influence of titanium on the properties of steels of the influence of the the the presence of titanium is the cost of the influence of the the by means of which it bees the off the influence of the the presence of titanium is the cost of the influence of the the by means of the strength of the influence of the the the presence of titanium is the cost of the influence of the the presence of titanium is the cost of the influence of the the by means of which it beck the off is the influence of the the presence of titanium is the cost of the influence of the the be normalized. The properties of the influence of the the best of the influence of the influence of the strength of the normalized in the header the transmitted the the best of the theory of the influence of the strength of the best of the theory of the influence of the influence of the strength of the normalized. The properties of the influence of the strength of the normalized in the header the transmitted to form af the best of the the header the transmitted to form af the the influence of the influence of the influence of the form of the influence of the i

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sheets. A particular advantage of this studies its high impact strength at 20 to 100° C. It is scleably chapter than come steels used for the same purpose. Also, this steel has favourable strength properties, good weldability and toughness, particularly at low temperatures, and also it has little inclination to ageing. This steel is at present being further tested to elucidate its behaviour in complex stress states and under vibration loads, Furthermore, the weldability and the optimum chemical composition are being investigated in great detail. Candidate of Technical Sciences N. V. Volobuyev (KhPI) in his paper "Influence of Niobium on the Properties of Manganese Steel" dealt with investigations on the influence of niobium on the temper brittleness and on the mechanical properties of manganese steel. It was established that $\tilde{0}_{*}2\tilde{0}{-}0.48\%$ Nb reduces the temper brittleness of monganese steel, which is one of the cheapert alloy steels with high strength properties. If the Nb content exceeds 0.49%, the impact strength of manganess steel smelted by the normal method decreases, since in this case nichius causes the formation of course carbides. Hablum hes a still

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for storighter and, Engineer A. D. Tilbays read the paper "Investigation of Cast "Stool 45" with Additions of Bords for Inproving the Hardensbility of Driven Wheels and Easting Bolls of the Tractor DT-54", Bords for instruments of for of ferroboral of the better of and 12 holds of CO by a contribuand for better decodation an additional contributed

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means of a magnetostriction vibrator. The investigations were carried out on 1Kh13 steel, brass and copper. A ver clear conception on the process of cavitation failure is provided by the kinetic curves which characterize the low in weight as a function of the test function. The existence of four periods was established for the cavitation erosion, namely, the incubation period, the period of intensive uniform failure and the period of the damped disruption. He proposes evaluation of the erosion stability of metals on the basis of the third period during which the speed of disruption is constant and depends on the structure and the properties of the material. Cast steels (chromium, stainless and copper containing steels) which are midely used for blades of hydraulic steels) which are whichly used for blades of hydraulic turbines have an erosion stability about 10 to 20% lower than that of the rolled stainless steel LKH17. The stainless austenitic steels LKH18N9T and BI125 and also the pearlitic steel EI10 have an erosion stability which is twice as high as the steel LKH13. The chemical-heat treatment of the surface of steel improves its erection stability. Thus, nitriding of the steel limit improves the erosion stability fivefold, whilst alitizing of

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Steel 20 increases the crocice stability fourfell. Investigation of elucinium branche of vericus chaical compositions in various states has above that aluminium bronzes of compositions approaching the extractional net have a high erosion stability. Bronzes containing 12.%6 Al have an erosion stability seven times or high are built of Steel 1Kh13. Hardening of aluminium bronzes denomining 10 to 13% aluminium brings about a charm increase of their erosion stability. Hardened bronze containing 10% aluminium has a crocice stability about form states be high and one containing 10.% aluminium has an erosion stability about 29 times as high as that of steel 1Kh13. Aluminium bronzes containing 10 to 10% Al deposited by welding (as facings) on Steel 20 GSL has a erosion stability which is several times as high as that of steel 1Kh13. The grain size and the disponsion of the structure incluence the erosion stability of the files. Covid above incluence the erosion stability of the files. Steel 1Kh13. The grain size and the disponsion of the structure incluence the erosion stability of the files. Covid incluence structure of the material, which can charty be corrected to stability cast alloys. At the initial structure files

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erosion reveals the grain and the first first structure. Only for alloys of a ringle type and a timele structural group can hardness be applied or a first section structural decisive influence on the erosion probability. In his paper "On the Neckender of Covidential Provide on X-ray investigations of correcting them and the paper do on cavitation erosion of match. The structure of the blocks of the messic structure at the infect of the investigations decreased by about 500 and do become of 5.1074 at the infect of the letter reached a magnitude of 5.1074 at the infect of the letter reached a magnitude scheme of impact bristle frequency. To the second of metals under conditions of early the proceeds the station of metals scheme of impact bristle frequency. To the second of and the basis of the obtained receipter. To the second of actual frequency of aluminian respected the that accompanies by intensive breaking up have frequency of a single after 45 second frequency of aluminian consecutive frequency of a single orystel operiment because breaking up have for a the that accompanies by intensive breaking up have for a the of a single orystel operiment because polycept of the depth of

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Scientific-Bochnical Conference on Metallegraphy and Heat Treatment, Kharlboy about 0.15 nm with a Tain size of 10⁻⁵ cm. It was also alwinness does not bring shut there of the instructions in alwinness does not bring shut there of the instructions in alwinness does not bring shut there of the instructions in alwinness does not bring shut there of the instructions in alwinness does not bring shut there of the instructions in alwinness does not bring shut there of the instruction alwinness does not bring shut there of the instruction alwinness of impact brittle for sture of the instruction cavitation erasion. The case optics have ensued that brittle frecture of the metric line withless invoke caused by the chock offset of the curface of the does not instruct on the cavitation exclusive of the instruct of the instrument instruct layer. Histified instructs of the cavitation statility due to the protocol of the instruction of the steel dorum to a consideration erastic of the instruction of the station is the instruct of the instruction of instructions of the steel dorum to a consideration ender the instruction of the statility of the instruction for the instruction of the establishing the character of the instruction of informaelements along the prein of the statility is instruction of informaduring high the prein of the statility is instruction of the function of alloying the mean of the statility is instruction of the statility is the character of the instruction of the statility elements along the prein of the statility statility is instructed. Statility is the character of the instruction of the statility along the instruction of alloying the outer in the instruction of the statility of alloying the outer in the instruction of the statility of alloying the outer in the instruction of the instruction of alloying the outer in the instruction of the distribution of alloying the outer in the instruction of the

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> by means of radio-active isotopec. By heads of autoradiography it was established that there is a redistribution of carbon during the intermediate transformations in the case hardened layer of the Steel 18KhNVA. Using radio-active tracers, he studied the redistribution of chronium between the carbides and the solid solution. The obtained experimental data can be utilised in the selection of the optimum heat treatment regime of steel.

Engineer V. Ya. Litvinenko (imeni Kirov Turbine Works) reported on the thermonagnetic analysis of austenitic steels. As a result of graduation of the thermomagnetic apparatus on the basis of the data obtained from investigating the phase composition, a relation was obtained between the indications of the instrument and the iron concentration in standards and also on the magnetic susceptibility of the specimens. This enabled quantitative analysis of the content of the ferromagnetic phases in austenitic steels. By means of thermonagnetic analysis the presence was established of four ferromagnetic Card 14/20 phases in the Steel 1Kh18N9T, each of which have differing

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Curie points.

Engineer L. N. Udovenko (Works for Building Transport Machinery) dealt with physical methods of control, describing certain results of introduction of magnetoelectric instruments for controlling the quality of leat treatment / practical introduction of radiographic methods of searching for defects of large size castings and of weld joints. Candidate of Technical Sciences A. K. Berkrownig (KLFT) reported on new data relating to the innoculation of metals. The higher the intercontact difference of the potentials between the solid and the liquid phase the more disperse will be the obtained structure. If the insculating agent forms with the metal structure the lower its intercontact potential. This accumption mas varified

on inoculated zinc, tin, clusinium and other models. Engineer E. I. Movshovich (KhTZ) in his paper "Obtaining High Mechanical Characteristics of Plunger Pairs Made of Card 15/20 the Steel KhVG in the Case of a Shortened Heat Treatment

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Cycle" dealt with the changer in the properties of this steel as a function of the heat transmit regime. On the basic of the results on experimental batch of plungers and bushings were heat treated according to the new regime consisting of hardening from 320°C in oil to 150°C, cold treatment for one hour, tempering in oil at 150°C for four hours. The proposed heat treatments double is half as long as the heat treatment according to existing practice. After heat treatment the components had high mechanical properties ($R_{\rm c}$ = 62 to 63) and a stability of the dimensions. Engineer L, P. Iveneva (EPT) in her paper "On the Brittleness of Steel During Bright Hardening and Englet Tempering in Molten Alkalies" stated that interventible and reversible brittleness occurs as a result of best treatment in molten alkalies at temperatures exceeding 600°C. The irreversible brittleness is due to the saturation of the steel with citregen as a result of deoxidation of the steel with citregen as a result of deoxidation of the steel with form the alkali bath. The provesible brittleness is caused by the hydrogen saturation of the steel resulting from the interaction of the alkali with the iron.

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Investigations were corried out on collecting a deoxiding agent to substitute the potacium ferrospanice, the presence of which in the hardoning bath brings about saturation of the surface with nitrogen. Enclusion of the nitrogen enabled revealing the influence of hydrogen on the properties of the steels during host treatment in molten alkalies. Galcium carbide the chosen as the

molten alkalies. Calcium carbida and choose as the deskiding agest. Engineer I. S. Svet (KhOZ), decling wish the use of high frequency heating for heat treatment of components, discussed problems of induction besting in hordening of cast iron components, problems of speeding up the heat treatment, full automation, mechanization and large scale hardening of components. In his Works gat systiling of components with small depths of the difference larger (0.15-0.3 m.) is being used. The arises obtained by the introduction of gas symplets of all for the bar Engineer Ya. L. Orlagarove "Gas 2, which of Sompeter as of the Fuel System of DE-54 Engine". Gas contained by effected on components and of the Steels 10, 1000, LONGT and LIXMIVA. Frior to that, liquid constitution was

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> used. The operation of the gas symmiding Jurnace is considerably more convenient than what of the liquid comentation bath. Also, gas cyaniding has a higher productivity and is more economical. The conface layer produced by gas cyaniding has a higher wear verificance and has better anti-corrorion properties than that obtained by liquid cementation.

A. V. Sakharova (Ball Bearing Works) reported on a new method of gas cyaniding of tools made of the high speed steels R18 and R9. The presence of a liquid carburiser, which evaporates at 520 to 560°C and, in decomposing, forms gases from which, during dissociation, active nitrogen and carbon separate out, simplifies considerably the process of jas cyaniding of tools. As such a carburiser an organic substance of the animoalcohol type was tested. The data of the experimental work and of the Works' tests confirmed the possibility of obtaining a cyanided layer in current type chaipment for gas case hardening in the case of feeding of the liquid carburiser from a drop dispenser into the retort of the furnace.

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Scientific-Technical Conference on Metallography and Rest Treatment, Khar'hov . The quality of the obtained hardened curface layer

satisfies the requirements to be not by the sympled layer as regards depth, micro-structure and dicro-hardness. Candidate of Technical Sciences V. A. Ul'ganov (Khar'hov Motor Road Institute) reported on experimental results and prospects of infustrial application of Cr-2i alloys for cast components operating under conditions of abrasive wear. Resolutions of the conference contained recommendations relating to more extensive use of high frequency heating of steel for heat treatment: introduction into practice

of Stool for heat treatment: introduction into practice of two-frequency hardening of gears; case hardening with direct (immediate) hardening according to the experience of ZIL: high temperature tempering and also extensive introduction of high temperature gas cyaniding of components (KhTZ experience) and low temperature gas cyaniding of tools (GPZ experience). Furthermore, bright hardening and bright tempering of stools in alkali baths in accordance with the results obtained by the Metals Technology Chair of KhFT should be untensively used

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