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-	BELKIN N.K., Regular Member of the Societ; 108-6-7/11	
	PRIVIN N.K., Regular Member of the Society, 1000 1	1
AUTHOR	BELKIN N.K., Hegular Member of the Supergenerator. On the Coefficient of Noise in the Supergeneratora-Russian)	
CITLE,	On the could be a superkhregeneratora-Russian)	
24 1.5	On the Coefficient of Noise in the errora-Russian) (0 koeffitsiyente shuma sverkhregeneratora-Russian)	
PERIODICAL	n the Laboration 10h7-VOL ICA NA VI PP	
ABSTRACT	With reference to the paper by Georg and Cilcord which renders 1953) it is said that an error was committed there which renders	
PDD TIME A .	1053) it is said that an error was committee in the fact that.	
	1953) it is said that an error was committed there in the fact that, the result obtained useless. The error consists in the fact that,	
	the result of the notion of aspecific spectral density of hold	
· · · ·	the results obtained useless. The error consists in the set of noi- when introducing the notion of aspecific spectral density of noi- when introducing the notion of a resistance of 1 ohms the authors	· ·
	se in the case of a four with a surged by the Schottky	
	se in the case of a load with a resistance of the Schottky disregarded the fact that the component caused by the Schottky,	
1.1.1.1.1.1	disregarded the fact that the component caused of the circuit, effect of the tube depends on the conductivity of the circuit, I a sindependent of it In	
	effect of the tube depends on the conductivity of the dependent of it In whereas the component of thermal noise is independent of it In	
	whereas the component of thermal noise is independent for super- the present work the question of the noise coefficient for super-	
	the present work the divertigated for linear operation, and	
• •	regenerative receivers is investigated to man noise coefficient P	
	regenerative receivers is investigated for linear optimizer of the top of the following conclusions are drawn: 1) The noise coefficient F the following conclusions are drawn: 1) The noise coefficient F is independent of the equivalent frequency domain. Therefore it is is independent of the equivalent frequency domain. Therefore it is	
	is independent of the equivalent frequency domain. The chapter ver	
•	is independent of the equivalent frequency domain. In absolute va- no use determining it unless one is interested in the absolute va-	
	no use activities to the output of the superregenerator.	
	lues of the noise at the burphe of the programmer is determined	
	2) The dependence of the coefficient interaction of the an increa-	
	only by the character of the input resistance in the table shown se of frequency, Rin decreases and F rises. From the table shown	
	and f frequency. Rin decreases and F rises. From the table the	
÷.,	se of frequency, R _{in} decreases and F rises. From exceeds the co- here it may be seen that F of the superregenerator exceeds the co-	
1	here it may be she superheterodyne only very little. In order to	
	here it may be seen that F of the superregendator in order to efficient F of the superheterodyne only very little. In order to market the superheterodyne only very little. In order to	
Card 1/2	efficient F of the superheterodyne only very interesting of the superheterodyne on su	
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		On the Coef	ficient of	Noise in	1 the Sup	ergener	ator.	50950	DEDOTE : "	
		conclusions erregenerat superhetero (1 illustra	given her or is used dyne recei	e apply a as an in ving act.	lso in t termedia	he case te freq	in whi uency a	106-	المسلم المواسي	
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	ATIMEOR .	Belkin, M.K.			· · · · ·	109–10–17/19)
• • •	TITLE:	Investigatio anode Magnet v magnetrone	ron (Issledov s razreznym	aniye sve anodom)	rknregenera	CTAUORO LASU	ima
		AL: Radiotek		. 1	50.700 - 1		
1	tu mo Fa	: It is assund ned circuit h tive force E .(1) where u	having paramet having a fi is the volt	requency at the	ω_1 can be he resonance	described by circuit,	y 1
	ar	d in are ou	arrents of the	e first a	nd the secon	id anode, and	α :
	(I)	$= 1\sqrt{1C}$ is	the resonance	e frequen	cy of the ci	rcuit (Refs	.1
	ar to	nd 2). A-fea Eq.(2) in wh	sible solution nich d ₁ is	n of the the the the negat	equation is ive damping	in the form coefficient	3
	ď	is the post	tive damping	, d _o is	the damping	5 coefficien	.t
	ot	the resonance	ce circuit, 8	5, is th	e overall da	amping.	
		nvestigation of the second	P Pa (2) for	actual m	egnetron sys	stems shows	that 1
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109-10-17/19 Investigation of the Superregenerative Regime in a Split-anode Magnetron. hundred which is lower than that of a triode operating as a superregenerator. Experimentally, the superregenerative regime was investigated on the circuit shown in Fig.1. The system had a magnetic field of 1 300 and operated at a frequency of 300 kc/s. A similar investigation was carried out on a double-magnetron system (Fig.4) operating at 3 000 Mc/s. It was found that the system of Fig.1 gave gains ranging from 10 - 100, while that of Fig.4 had considerably lower gains. There are 4 figures and 3 Slavic references. SUBMITTED: January 8, 1957. AVAILABLE: Library of Congress. Card 2/2

APPROVED FOR RELEASE: 06/06/2000





200 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
AUTHORS:	Belkin. M. K., Member of the SOV/108-13-10-4/13 Society, Gatkin, N. G., Member of the Society
	and the source of the source of
TITLE:	On the Problem of Receiving Pulsed Signals by Storage Methods (K voprosu o priyëme impul'snykh signalov metodom nakopleniya)
PERIODICAL:	Radiotekhnika, 1958, Vol 13, Nr 10, pp 14 - 17 (USSR)
ABSTRACT:	In this article the possibilities of receiving pulsed
	signals by storage methods in one single- and double- tuned receivers are discussed. This is in particular
	an approach to the noise stability conditions at limited
	mean pulse time. It is shown that atgreat mean pulse
	times the method of double-tuned storage, as compared
	to single-tuned reception provides a certain gain in
	noise stability. A model was constructed for experimental investigations, the block-scheme of which is given.
	The results of the comprehensive information collected
	are to the point that a double-tuned reception offers
Card $1/2$	a certain degree of improvement as compared to ordinary
Varu 1/2	single-tuned reception with respect to noise stability,
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	this gain, however, being insignificant. T figures and 5 references, 3 of which are S	here are 5 oviet.		
SUBMITTED:	June 6, 1957 (initially) and December 2, 1 revision)	957 (after		
ASSOCIATION:	Vsesoyuznoye nauchno-tekhnichekoye obshchestvo i elektrosvyazi im. A. S. Popova (All-Union So Technical Society of Radio and Communications im. A. S. Popov.)	ientific and		
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l Xaa	•		
· • •	9(9) AUTHOR:	Belkin, M.K. SOV/142-2-1-3/22	
/• 	TITLE:	Signal and Noise at the Output of a Superregenera- tive Receiver (Signal i shum na vykhode sverkhre- generativnogo priyemnika)	
	PERIODICAL:	Izvestiya vysshikh uchebnykh zavedeniy - radiotekh- nika, 1959, Vol 2, Nr 1, pp 24-30 (USSR)	
	ABSTRACT:	The author investigates the simultaneous influence of a sinusoidal pulse signal and fluctuation noise on a superregenerator. He presents formulae for the signal-to-noise ratio at the output of a linear and a square-law amplifier with different averaging intervals. The author explains the differences be-	
	0	tween his method and the Whitehead method /Ref 27, saying that is is necessary to consider the inertia of linear circuits before and after the dectector, when using Whitehead's results on pulse reception problems.	
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	ASSOCIATION:	Lenina pol	litekhnich Devices of	eskogo	o institu	Kiyevskogo ta (Chair o nin Order P	f Radio	•
	SUBMITTED:	April 10,	1958					
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HEIKIN, Mark Konstantinovich [Hitikin, M.K.]; POLYANSKAYA, L. [Poliens'ks, L.], red.; GOHKAVENKO, L. [Horkavenko, L.], tekhn.red. [Massers and parametric amplifiers] Molekuliarni ta parametrychni pidsyliuvachi. Kyiv, Dersh.vyd-vo tekhn.lit-ry URSR, 1960. 39 p. (NIRA 14;4) (Masers) (Amplifiers (Blectronics))

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204320019-0

82972 S/142/60/003/002/012/022 6.4400 E192/E382 AUTHORS: Belkin, M.K. and Gatkin, N.G. TITLE: On the Problem of the Reception of Weak Signals PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1960, Vol. 3, No. 2, pp 266-269 TEXT: Two radio-receivers are considered (Fig. 1). The first system is in the form of a single-channel device, consisting of a selective filter $\Delta \omega$, a square-law detector and an integrating circuit. It is shown that the noise-to-signal ratio at the output of this system is given by: $x + \left(\frac{\overline{c}}{c}\right)^4$ $\sqrt{2}$ (1)where $(\Pi/C)_{BX}^2$ is the noise-to-signal ratio at the input. When the noise-to-signal ratio at the input is small, Eq. (1) can be written as Eq. (2). The second device of Fig. 1 is a two-channel system which receives input signals U_1 and U_2 Card 1/2

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88:77 General Theory of Regenerative Circuits S/108/61/016/001/004/007 With Variable Parameters B010/B077 $= \exp\left\{-\frac{\int_{0}^{2} \int_{0}^{f} f_{o}}{2\bar{\alpha}\lambda\sin u_{o}}\right\} = \exp\left\{\frac{2\alpha}{\lambda}(\sin u_{o} - u_{o}\cos u_{o})\right\}$ (15) which can be used to determine the bandwidth and similar operating parameters (cf. studies of L. S. Gutkin); B) parametric amplifier; only C is variable, i.e., n=0. Using expression (11) the amplification factor is determined to be $k \approx (1+f_0+f_0)/2 \sqrt{\left[d_0-\gamma(\frac{m}{2})^2\right]}$ $\int + (2\xi_c)^2$ which can be easily specialized for the various operating conditions of the parametric amplifier ($\xi_0 = 0$, $\xi_c = 0$, etc.); C) parametric superregenerative amplifier; C and R are variable, and $\Omega \langle \omega_{\rm n}$. (11) also yields (15) for the amplification factor if substituting u_0 by $U_0 = \arccos(\frac{1}{n} - \frac{\mu}{\alpha})$ (28). The bandwidth with respect to a 0.5-decrease amounts to $\frac{AF}{f}$ =. 1.20 120 m2 (29) with $\gamma = 1 - 2\mu Q$. The product P of bandwidth and resonance amplification is obtained from (15), (28), and (29) to be Card 3/4

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S/142/62/005/001/010/012 E192/E382

Parametric amplifiers

The equation can be solved by the method of varying the arbitrary Lagrange multipliers (Ref.14 .. Smirnov, V.I. -Kurs vysshey matematiki (Course on Higher Mathematics), Gostekhizdat, 1957, 2; Ref. 15 .. MacLachlan, N.V. - Theory and Application of Mathieu Functions - transl. from the English, 1953). For the case when R(t) = R, the solution of Eq. (2) is comparatively simple. In practice, the construction of amplifiers of the type shown in Fig. 2 presents considerable difficulties in that they amplify the signal reflected from the load and tend to be unstable. This deficiency is eliminated by introducing ferrite circulators which have strong directional properties. Such amplifiers give gains of the order of 20 db and bandwidths of several tens of Mc/s at centimetre waves and the noise factor is about 3 db. A parametric amplifier operating under super-regenerative conditions can be realized by introducing a super-regeneration signal which changes the pump power or its frequency or the biasing .f the diode. Such an amplifier can be represented by the equivalent circuit shown in Fig. 5 and its lifferential equation is in the form:

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BELKIN, M.K.

Author's reply. Izv. vys. ucheb. zav.; radiotekh. 5 no.3:414 My-Je ¹62. (MIRA 15:9)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. (Amplifiers (Electronics)) (Microwaves) (Oscillators, Electron-tube)

APPROVED FOR RELEASE: 06/06/2000





AUTHOR: Balkin, M. K. (Active member); Daletskiy, Yu. L. (Active member) ORG: Scientific - Technical Society of Radio and Communications Engineering im A.S. Pepov(Nauchno-Tekhnicheskoye closhchestvo radiotekhniki i elektrosvyazi) TITLE: Parametric amplification theory SOURCE: Radiotekhnika, v. 21, no. 8, 1966, 22-28 TOPIC TAGS: parametric amplifier, parametric resonance, mathematic analysis, mathematics ABSTRACT: The processes in a parametrically regenerated circuit, the capacitance and attenuation of which change simultaneously in accordance with a complex law, are reviewed because, despite much writing on the subject of parametric resonance and garametric amplifiers with nonlinear reactance, that published in recent years and known to the authors deals only with the circuit with one variable reactance. This work, therefore, considers the superregenerative state in the parametric ampli- fier, during which the reactance and the attenuation change simultaneously in accordance with a complex law, such as a modulated pumping law. The solutions to the homogeneous equation, as well as to the inhomogeneous equation, and to individual special, cases, are shown. The methodology used for solving the problems can be used as well for modulated pumping and for the more complex laws which changes in the system obey. Orig. art. has: 23 formulas and 2 figures. SUB CODE: 09/SUBM DATE: 13Feb64/ORIG REF: 008/OTH REF: 003 Cerd 1/1 UDC: 621.375.93	ACC NR: AP6029460	SOURCE CODE: UR/0108/66/021/008/0022/0028
SOURCE: Radiotekhnika, v. 21, nO. 8, 1966, 22-28 TOPIC TAGS: parametric amplifier, parametric resonance, mathematic analysis, mathematics AESTRACT: The processes in a parametrically regenerated circuit, the capacitance and attenuation of which change simultaneously in accordance with a complex law, are reviewed because, despite much writing on the subject of parametric resonance and parametric amplifiers with nonlinear reactance, that published in recent years and known to the authors deals only with the circuit with one variable reactance. This work, therefore, considers the superregenerative state in the parametric ampli- fier, during which the reactance and the attenuation change simultaneously in accordance with a complex law, such as a modulated pumping law. The solutions to the homogeneous equation, as well as to the inhomogeneous equation, and to individual special, cases, are shown. The methodology used for solving the problems can be used as well for modulated pumping and for the more complex laws which changes in the system obey. Orig. art. has: 23 formulas and 2 figures. SUB CODE: 09/SUBM DATE: 13Feb64/ORIG REF: 008/OTH REF: 003		
TOPIC TAGS: parametric amplifier, parametric resonance, mathematic analysis, mathematics ABSTRACT: The processes in a parametrically regenerated circuit, the capacitance and attenuation of which change simultaneously in accordance with a complex law, are reviewed because, despite much writing on the subject of parametric resonance and parametric amplifiers with nonlinear reactance, that published in recent years and known to the authors deals only with the circuit with one variable reactance. This work, therefore, considers the superregenerative state in the parametric ampli- fier, during which the reactance and the attenuation change simultaneously in accordance with a complex law, such as a modulated pumping law. The solutions to the homogeneous equation, as well as to the inhomogeneous equation, and to individual special, cases, are shown. The methodology used for solving the problems can be used as well for modulated pumping and for the more complex laws which changes in the system obey. Orig. art. has: 23 formulas and 2 figures. SUB CODE: 09/SUBM DATE: 13Feb64/ORIG REF: 008/OTH REF: 003	ORG: Scientific - Technical S im A.S. Papov (Nauchio - Tekhniche TITLE: Parametric amplification	occiéty of Radio und Communications Engineering skoye obshchestvo radiotekhniki i elektrosvyazi) i theory
mathematics ABSTRACT: The processes in a parametrically regenerated circuit, the capacitance and attenuation of which change simultaneously in accordance with a complex law, are reviewed because, despite much writing on the subject of parametric resonance and parametric amplifiers with nonlinear reactance, that published in recent years and known to the authors deals only with the circuit with one variable reactance. This work, therefore, considers the superregenerative state in the parametric ampli- fier, during which the reactance and the attenuation change simultaneously in accordance with a complex law, such as a modulated pumping law. The solutions to the homogeneous equation, as well as to the inhomogeneous equation, and to individual special, cases, are shown. The methodology used for solving the problems can be used as well for modulated pumping and for the more complex laws which changes in the system obey. Orig. art. has: 23 formulas and 2 figures. SUB CODE: 09/SUBM DATE: 13Feb64/ORIG REF: 008/OTH REF: 003	SOURCE: Radiotekhnika, v. 21, n	10. 8, 1966, 22-28
and attenuation of which change simultaneously in accordance with a complex law, are reviewed because, despite much writing on the subject of parametric resonance and parametric amplifiers with nonlinear reactance, that published in recent years and known to the authors deals only with the circuit with one variable reactance. This work, therefore, considers the superregenerative state in the parametric ampli- fier, during which the reactance and the attenuation change simultaneously in accordance with a complex law, such as a modulated pumping law. The solutions to the homogeneous equation, as well as to the inhomogeneous equation, and to individual special, cases, are shown. The methodology used for solving the problems can be used as well for modulated pumping and for the more complex laws which changes in the system obey. Orig. art. has: 23 formulas and 2 figures. SUB CODE: 09/SUBM DATE: 13Feb64/ORIG REF: 008/OTH REF: 003	TTurner	er, parametric resonance, mathematic analysis,
	and attenuation of which change are reviewed because, despite mu and parametric amplifiers with n and known to the authors deals o This work, therefore, considers fier, during which the reactance accordance with a complex law, s the homogeneous equation, as wel special, cases, are shown. The as well for modulated pumping an system obey. Orig. art. has: 2 SUB CODE: 09/SUBM DATE: 13Feb64/	simultaneously in accordance with a complex law, ach writing on the subject of parametric resonance conlinear reactance, that published in recent years only with the circuit with one variable reactance. the superregenerative state in the parametric ampli- e and the attenuation change simultaneously in such as a modulated pumping law. The solutions to l as to the inhomogeneous equation, and to individual methodology used for solving the problems can be used and for the more complex laws which changes in the 3 formulas and 2 figures. ORIG REF: 008/OTH REF: 003



	, D.G.: KOGTEV, G.I.; IAVRENENKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.; IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.F.; POPOV, V.A.; ZAGORODNIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.; YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, I.S.; LETUCHEV, L.I.; BELKIN, M.N.; OBOLONKOV, M.I.; BATENIN, B.A.; BUR'YANOV, B.P.; KANATOV, P.I.; KOKOREV, S.V.					
	Nikolai Alekseev (Andreev,	ich Andreev. Nikolai Aleka			0 '56. (MLRA 9:12)	
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ZARFMBA, Yo.M.; CHVAMANIYA, A.Yo.; KUVARDINA, N.M.; BELKIN, M.L.; MALYKHINA, A.F.; NEPLOTNIK, I.F.; CHUCHENKO, R.I.; MATUSYAK, Yo.I.

> Comparative evaluation of various methods of gastric lavage with "Yessentuki" No.4 mineral water in chronic gastritis. Sbor. nauch. rab. vrach. san.-kur. uchr. profectuzov no.1:79-83 \$54.

> > (MIRA 18:10)

1. Yessentukskiy sanatoriy imeni I.P.Pavlova (glavnyy vrach A.Ye. Chvamaniya, nauchnyy rukovoditel' kand.med.nauk I.I.Konovalov).

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1. Sec. 11

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MAMCHENKO, V.P., inzh.; BELKIN, M.N., inzh. [deceased]; ZAV'YALOV, G.N., inzh.; DZHAVOKHIN, T.V., inzh.; CHEFYZHOV, B.F., inzh.; MOLYARCHUK, V.S., kend. tekhn. nauk; KRUCHININ, M.S., inzh.; AVDUKOV, M.I., inzh.; MEL'NIKOV, V.Ye., red.; MEDVEDEVA, M.A., tekhn. red.

> [Manual for the locomotive engineer] Rukovodstvo parovoznomu mashinistu. Izd.2., ispr. i dop. Pod obshchei red. V.S. Moliarchuka. Moskva, Transzheldorizdat, 1963. 369 p. (MIRA 16:12)

> 1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Locomotives---Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/06/2000

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DMITRIYEV, I.M., inzh.; BELKIN, M.N., inzh.

Underground housing of a hydroelectric power station with suspended crane beams. Energ. stroi. no.33:59-62 '63. (MIRA 17:8) 1. Nauchno-issledovatel'skaya stantsiya Moskovskogo filiala

Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

APPROVED FOR RELEASE: 06/06/2000

BELKIN, M.S.

Pirogov Medical Society; from original unpublished proceedings of the society and other materials. Vest.khir. 89 no.7:117-120 Jl *62. (MIRA 15:8) (MEDICAL SOCIETIES)

APPROVED FOR RELEASE: 06/06/2000

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CIA-RDP86-00513R000204320019-0

BELMIN, M. S. Russkiyu Zhenshohiny-vrachi-pionety vyteshogo chanshogo neditsinskogo obrazovaniya. (N. P. Suslova, V. A. Kashevarova i M. A. Bohova) Sov. uracheb. sbornik, vyp. 14, 1949, s. 29-35.
30: Letoris'Zhurnal'nykh Statey, No. 29, Moskva, 1949.

APPROVED FOR RELEASE: 06/06/2000



BELKIN, Moisey Savel'yevich; FRAYMAN, Tevel' Rubinovich; DUBAKH, It-Id-, ICC. [Mechanization of labor-consuming processes in the maintenance of motorbuses; practice of motorbus parks in Moscow] Mekhanizatsiia trudoemkikh protsessov pri tekhnicheskom obsluzhivanii avtobusov; iz opyta avtobusnykh parkov Moskvy. Moskva, Transport, 1964. 45 p. (MIRA 17:9)

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28(5) AUTHOR:	Belkin, M. Ya.									
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TITLE:	Simplifying the Shape of Samples for Testing Metals for Fatigue (Ob uproshchenii formy obraztsov dlya ispytaniy metallov na ustalost')									
PERIODICAL:	Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 466-469 (USSR)									
ABSTRACT: Card 1/2	II The present paper describes the simplification of the shape of fatigue samples of highly resistant alloyed steel. The ex- periments were carried out under the direction of I. V. Kudryav- tsev, Professor, Doctor of Technical Sciences. A poorly alloyed, highly resistant steel 40 KhN (0.41% C, 0.57% Mn, 0.03% S, 0.025% P, 0.07% Si, 0.63% Cr, 1.25% Ni) was thermally processed for different degrees of hardness and examined. A sketch of the sample form (Fig 1), as well as the mechanical characteristics of the sample groups (Table 1) are given. The surface hardening is made by means of a three-roller device designed by the TSNIITMASH (Ref 5). The fatigue tests were carried out by bend- ing with rotation of the sample on the basis of 5 million cycles. As the conditions of the first surface hardenings did									

SOV/32-25-4-34/71 Simplifying the Shape of Samples for Testing Metals for Fatigue not bring the desired success, the hardening was done under different conditions. The profile radius of the rollers was reduced to :.8 mm at a diameter of 40 mm, and the roller pressure was 125, 150 and 175 kg, so that by the rolling an increase in the surface hardening was attained, and the depth of the hardened layer was 1.5-1.7 mm. The results of the fatigue tests are given (Table 2, Fig 2), and it is pointed out that none of the samples broke at the supports or at the end of the hardening zone. Thus, it is stated that, with sufficiently deep and intense hardening of the support zones, no samples with a supporting head are needed. The samples not destroyed were tested by staining with 50% hydrochloric acid at 70° (for 30 minutes), and no cracks were ascertained. There are 2 figures, 2 tables, and 5 Soviet references. Staro-Kramatorskiy mashinostroitel 'nya zavod im. S. Ordzhoni-ASSOCIATION: kidze (Staro-Kramatorsliy Machine-building Jorks imeni S. Ordzhonikidze) Card 2/2

APPROVED FOR RELEASE: 06/06/2000

 BELKIN:	H. Ya.

AN THE PARTY OF A DESCRIPTION

Increasing the durability of hammer rods by means of cold rolling. Kuz.-shtam. proizv. 2 no.7:36-38 J1 '60. (MIRA 13:8) (Forging machinery) (Metals--Cold working)

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28161 s/122/61/000/009/008/009 D298/D305 Belkin, M.Ya., Engineer

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AUTHOR:

Strengthening large size components by working TITLE: them with a vibrating roller

PERIODICAL: Vestnik mashinostroyeniya, no.9, 1961, 67-68

Mechanical methods for strengthening large size components involve many difficulties as they require application of considerable pressures. In these cases, the single-roller method proved to be unsatisfactory, and the application of three-roller hydraulic or spring-lever devices is inconvenient three-rotter hydraulic of spring-level devices is inconvenient for exploitation owing to their bulkiness. The present article describes a new method of strengthening by using vibration roller (Author's certificate 128034 by I.V. Kudryavtsev and N.A. Lopatinskiy). In Fig. 1 a general layout of such a rolling device is given. The rollers are made of steel 9XC (9KhS) and Ņ

Card 1/3

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Strengthening large size ...

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are heat treated up to hardness RC 60-62. The following optimum parameters were selected: Roller diameter - 90 mm; roller profile radius - 7 mm; static force - 750 kg; striking energy -3.4 kgm; feed - 1.53 mm/turn. The depth of plastic deformation amounted to 20 mm. Experiments were carried out on the shifting mechanism shafts for grab trucks of a gantry crane having a span of 76.2 m; diameter of shafts - 260 mm. The shafts were made of steel 40 XH (40 KhN) having very high technical qualities as regards the composition of metal, forging, thermal treatment and mechanical properties. During the experiment, it was determined that the endurance limit of the test pieces treated by cold hardening was increased for steel 40X (40Kh) from 11.5 to 28.5 kg/mm. Analogous results were obtained for steel 40XH (40KhN). In order to eliminate intensive scaling of small metal particles during the process of strengthening, the quality of surface finish of the treated components was established not to be under class 5 of /OCT (GOST) 2789-59.

Card 2/3

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	Exchange of experience. Zav.lab. 27 no.8:1039-1040	'61. (MIRA 14:7)
	1. Kuybyshevskiy industrial'nyy institut imeni V.V.Kuyby (for Andreyev). 2. Staro-Kramatorskiy mashinostroitel'	ysheva nyy zavod
	imeni Ordzhonikidze (for Belkin). 3. Sudoremontnyy zav Chernomorskogo parokhodstva (for TSegel'nitskaya). (Testing machines)	od No.2
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3/122/62/000/004/001/006 D221/D302 Kudryavtsev, I.V., Doctor of Tachnical Sciences, Professor, and Belkin, M.Ya., Ingineer AUTHORS: Increasing the load-carrying capacity of large steel TITLE: shafts PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1962, 3 - 7 TEXT: Special devices were designed by TSNIITLASh and other institutions for experimental determination of fatigue characteristics of large specimens. The tests revealed the effectiveness of surface hardening by the strain method when applied to critical zones of stress concentration. The work of Vsesoyuznyy nauchno-issledovatelskiy teplovoznyy institut (Kolomna) (All-Union Scientific Research Institute of Locomotives) demonstrated that the fatigue limit of institute of hocomotives, demonstrated that the latigue limit of stepped shafts due to hardening by roller burnishing is independent of the scale of the modelling. The fatigue tests on specimens with diameters ranging from 20 to 160 mm in $40 \times H$ (40 KhN) and 40x (40 Kh) steels were carried out in order to ascertain the possibility of replacing the former. Dimensions of the test-pieces and the Card 1/3

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Increasing the load-carrying, ...

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steel compositions are quoted. The specimens with stress raisers were examined both in treated and untreated conditions. The different dimensions provided the answer to the scale factor. The slee-ves for force fit were made in steel CT 3 (St. 3) and to OCT (OST) 1042 specifications. The operation of roller-burnishing is described in detail. The fatigue tests were carried out in a y-200 (U-200) resonance type machine designed by TsNIITMASh, which ensured a symmetrical cycle of torsional bending. Some failures occurred outside of the concentration of stresses. Comparison of results indicated that the press-fit of sleeves and fillets reduces the fatigue strength of large shafts. 40KhN steel appeared more sensitive to stress raisers than 40 Kh. The effect of the scale factor follows in this order: Plain, stepped and press-fit specimens for the untreated items. The strain-hardened specimens exhibited a similar behavior. Consequently, the chrome-nickel steel, 40KhN, has little advantage over the chrome steel, 40Kh. The fatigue strength of stepped shafts has increased by 1.5 - 2 times, whereas that of sleeved components improved by 2 - 2.3 times due to work-hardening. Fatigue resistance decreased with increasing size of the shafts. Candidate of Technical Sciences N.A. Balabanov. Engineer, V.N. Candidate of Technical Sciences N.A. Balabanov, Engineer, V.N. Card 2/3

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Card 3/3						•	
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VENZHEGA, A.S., inzh.; BELKIN, M.Ya., inzh. ant level. Strength of rolls for cold finish rolling. Mashinostroenie no.1:9-10 Ja-F ¹63. (MIRA 16:7) 1. Staro-Kramatorskiy mashinostroitel'nyy zavod. (Rolls(Iron mills)) .

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204320019-0

s/129/63/000/001/004/017 E073/E335 Belkin, M.Ya. and Venzhega, A.S., Engineers AUTHORS: Hardening of large components by surface-working as a TITLE: substitute for heat treatment Motallovedeniye i termicheskaya obrabotka metallov, PERIODICAL: no. 1, 1963, 15 - 16The technology of strengthening the top drum of flying TEXT: shears weighing 28.4 t (cutting force 150 t, bending and torsion stresses in the dangerous cross-section 500 kg/cm²), made from steel 34×Hi1 (34KhNM), is described. Bearings and gears are shrinkfitted onto the 480 and 530 mm dia. drum neck. Step-shaped specimens (r:d = 0.13) were investigated. The fatigue limit of 160-mm dia. specimens increased as a result of work-hardening from 14.5 -20.5 kg/mm² in the case of normalized specimens and from 19.0 - 24.5 kg/mm^2 in the case of heat-treated specimens. Work-hardened, normalized steel has a higher fatigue index than otherwise heattreated steels. Therefore, the laborious hardening of hightemperature tempering can be substituted by cold deformation. The flying-shears drum was first normalization-annealed and then Card 1/2

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15 1 2 S/129/63/000/001/004/017 Hardening of large components E073/E335 51 machined (with an addition of 2.5 mm). To prevent layering, the surface quality prior to work-hardening must not be lower than class 6. The area where the bearings and gears are fitted is workhardened with a vibrating roller of 90 mm dia. with a profile radius of 7 mm, using a static force of 750 kg, impact energy of 3.4 kgm, reed rate of 1 mm/rev and a speed of drum rotation of 3 r.p.m. The attachment and tool rest are set to an angle of 45 relative to the drum axis. The drums are finish-machined to the required accuracy after work-hardening. There is 1 table. ASSOCIATION: Staro-Kramatorskiy mashinostroitel'nyy zavod (Staro-Kramatorsk Machine-building Works) Card 2/2

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APPROVED FOR RELEASE: 06/06/2000

DRAYCOR, D.A., doktor tekhn. nauk; SOLOGUB, V.A., inzh.; <u>BELKIN, M.Ya.,</u> inzh.; DUNAYEVSKIY, V.I., inzh. Strength of ball-burnished circular. Mashinostroenie no.5; 45-46 S-0 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/06/2000

VENZHEGA, A.S., inzh.; BELKIN, M.Ya., inzh. Effect of grinding conditions on the surface layer quality of rolls for cold rolling. Vest. mashinostr. 43 no.10:68-70 0 '63. (MIRA 16:11)

CIA-RDP86-00513R000204320019-0

5.5 DRAYGOR, D.A.; VENZHEGA, A.S.; <u>BELKIN, N.Ya.</u>; VAL'CHUK, G.I.; ARUTYUNOV, I.G., kand. tekhn. nauk, retsenzent; SAVEL'YEV, Ye.Ya., red. [Roll durability in cold rolling finishing] Stoikost' val-kov chistovogo kholodnogo prokata. Moskva, Izd-vo "Mashinostroenie," 1964. 126 p. (MIRA 17:7)

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L 58789-65 EMT(1)/EWA(d)/T/EMP(t)/EMP(E)/EMP(z)/EMP(b)/EMA(c) P2-4 MIM/JD/
ACCESSION NR1 AP#016106	UR/0122/65/000/006/0063/0065 621.78:621.787
AUTHORS: Eernshtuyn, M. L. (Doctor of t M. Ya. (Candidate of technical sciences) sciences); Kalyagina, G. P. (Engineer);	; Venzhega, A. S. (Candidate of technical
TITLZ: High temperature thermomechanica	1 surface treatmont B
SOURCE: Vestnik mashinostroyoniya, no.	6, 1965, 63-65
TOPIC TAGS: surface treatment, thermore 9Kh steel	chanical surface treatment, cold rolling/
for treating rolls of multi-roll cold ro	lameter) of 9Kh/Steel vere surface rolled g at 850, 900, and 9500 at 720 rpm, and After surface treatment, the specimens
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L 14420-66 EWT(in)/EWA(d)/T/EWP(t)/EWP(k)/EWP(s)/EWP(b) IJP(c) NJW/JD/HW/JG ACC NR: AP6002120 SOURCE CODE: UR/0369/65/001/006/0701/0706 AUTHOR: Bernshteyn, M. L.; Kalyagina, G. P.; Venzhega, A. S.; Belkin, M. Ya.; Ryabova, L. A. ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) TITIE: High-temperature thermomechanical surface treatment (with 9 Kh steel as example) 44,55, 16 SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 6, 1965, 701-706 TOPIC TAGS: steel, surface hardening, metal heat treatment, mechanical heat treatment ABSTRACT: The paper gives the results of a study and adoption in industry of a new method of hardening the surface layers of cold rolls, the high-temperature thermomechanical surface treatment (HTMST). In experiments with rolls of <u>9Kh</u>, 4 steel, the greatest increase in the contact strength of 9Kh steel rolls as compared to ordinary hardening treatment with high-frequency currents and low tempering is provided by HTMST involving an austenizing temperature of 900-950C, a draft pressure of 64 dkN, a longitudinal feed of 180 um/min, and a rotation velocity of 720 rpm. After this treatment, the contact strength in the zone of Card 1/2

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TITLE :	Electronic Co (Mezhdunarodn	mputers for P: oye soveshchar islitel'nykh p	n the Problem of rocessing of Stat liye po voprosu p mashin dlya obrab	istical Data	
PERIODICAL:	Vestnik Stati	stiki, 1957, N	to 3, May-June, p	9 86-89 (USSR)	
ABSTRACT :	ence which con representative ment Tauildin	nvened from 21 es were Yu. Ya 2 g and Ant	. to 24 Jan 57 in	ternational confer- Geneva. The Soviet inistry of Instru- Belkin (Soyuz-	• • • • • • • • • • • • • • • • • • •
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BELKIN, N. I.

Belkin, N. I. - "Experience in observing the effect of fertilizer on larvae of the boot weevil", Trudy Dnepropetr. s.-kh. in-ta, Vol. 11-111, 1948, p. 293-96.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

APPROVED FOR RELEASE: 06/06/2000

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BFLKIN, N. I. tion in the spring. cold resistance. Winter wheats require reinsium stimulate synthetic processes, increasing thus lowering resistance. Phosphorus and potasforced P-K nutrition in the fall and H fertiliza-USSR/Biology (Agriculture) - Cold Re- Sep/Oct 51 action of enzymes of carbohydrate metabolism at the capacity of plants to suppress the hydrolytic Resistance to winter cold is characterized by "Biokhim" Vol XVI, No 5, pp 429-433 "Enzymatic Indexes of Cold Resistance of Winter Wheat in Connection With [Climatic] Hardening and Pertilization," N. I. Belkin, Chair of Agr Chem and Plant Physiol, Yaroslav Agr Inst low temps. Mitrogen activates hydrolytic reactions, USER/Biology (Agriculture) - Cold Re- Sep/Oct 51 sistance of Wheat (Contd) sistance of Wheat 202718 202TIB

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Control Plants. Grains. M-2 Abs Jour: Ref Zhur-Biol., No 6, 1958, 24994 : Trusov, M. S., Belkin, N. I., Demina, M. N. Author Inst : Yaroslav Agricultural Inst. Title : A Study of the Agrotechnical Methods for Corn in Yaroslavskaya Oblast' Orig Pub: Tr. Yaroslavsk. s.-kh. in-ta, 1956, 3, 25-32 Abstract: At the experimental training farm of Yaroslav Agricultural Institute a study was made in 1954-1955 of the sowing periods, bed areas in square-pocket planting and the application of manure and organic mineral mixtures for corn. The highest cob yields were obtained with square-pocket planting (60 x 60 cm.) in 25-30 May with 2 plants per bunch, the seeds bedded 5 cm. deep, with the simultaneous application of manure under the plow and Card 1/244

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204320019-0 USSR / Cultivated Plants. Grains. M-2 Abs Jour: Ref Zhur-Biol., No 6, 1958, 24994 Abstract: an organic mineral mixture being placed in the holes when sowing. -- Ye. T. Zhukovskaya Card 2/2

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B USSR/Phys	EL, siol	KIN N. T. logy of Plants. Heat Regimen T-4		
		Ref Zhur-Biologiya, No 2, 1958, 5682		
Author Inst Title	:	N. I. Belkin Yaroslavskiy Agricultural Institute Biochemical Method of the Determination of Resistance of Winter Wheat		•
Orig Pub	:	Tr. Yaroslavsk. s-kh. in-ta, 1956, 3, 80-84		
Abstract	:	600 to 1000 seeds of the variety under investi- gation were soaked for a period of 6-12 hours and then cultivated on sterile substrata for a period of 16-18 days, while being irrigated with distilled water at room temperature. The hardening process was carried out in two phases; phase 1- cultuation under light at 0-+5° for a period of 10-12 days, and phase 2-3 day subjection to 0. to5° To analyze the leaves by means of vacuum-infil- tration water introduced were (to determine the	0	
Card 1/2				

4 Aba Taum		logy of Plants. Heat Regimen	I-4	
NUA JOUT	:	Ref Zhur-Biologiya, No 2, 1958, 5682		
Abstract	:	content of sugars in the plant), glucose termine the synthetic capacity of the lear saccharose (to determine the ability to he lize). Mono-and disacharides contents were termined in each sample (by the Bertran me the Lisitsyn micromethod). Winter resistant judged on the basis of the trend of invert action. By this method it was found that we resistant varieties after herdening the	ves),or ydro- e de- ethod or nce was	
		resistant varieties after hardening differ the winter nonresistant varieties by a sma predominance of sythesis over hydrolysis.	vintan	
	•	the winter nonposist	vintan	
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BELKIN, N.I.; DIKUSAR, I.G., prof., doktor sel'khoz.nauk,red.; DRYAKHLOVA,V.I., red.; POLONSKIN, S.A., tekhn. red.

 [Winter hardiness of plants] Zimostoikost' rastenti; faktory zimostoikosti. Kishinev, Izd-vo "Shtiintsa" Moldavskogo filikla Akad. nauk SSSR, 1961, 279 p. (MIRA 14:10)

 (Flants-Frost resistance)

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| Translation :<br># 93667                                       | rom: Referativnyy zhurnal                                                                                                                                          | , Mashinostro                                                                                               | yeniye, 1960, No. 17, p. 2                                                                                                                             | 54 |
| AUTHOR :                                                       | Belkin, N.V                                                                                                                                                        |                                                                                                             |                                                                                                                                                        |    |
| TITLE:                                                         | Aspects of Development of                                                                                                                                          | f Computer-Eng                                                                                              | ineering in the USSR                                                                                                                                   |    |
| PERIODICAL;                                                    | Byul. tekhn. inform.(Sov<br>No. 7-8, pp. 66-68                                                                                                                     | narkhoz Kurskoj                                                                                             | go ekon. adm. r-na), 1958,                                                                                                                             |    |
| utth motor dr<br>puters "63C<br>In the next y<br>types, and to | <pre>Union from 1947 to 1957.<br/>iving increased 7 times, an<br/>{" (BESM), "Strela", "Ural'<br/>ears, it is planned to inte<br/>start the serial output of</pre> | In this period<br>ad models of th<br>', "M3" (MZ) a<br>ensify the proc<br>f electronic co<br>ds up to 150 - | ne highspeed electronic com<br>and others were developed.<br>Auction of computers of all<br>computers for statistical an<br>200 thousands of operation | 1  |
| per second.                                                    | The output of perforation sets per year. The output                                                                                                                | type computers                                                                                              | will be increased up to                                                                                                                                | 5  |

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S/123/60/000/017/015/016 AOD5/AOO1 Aspects of Development of Computer-Engineering in the USSR planned to be increased during 7 years up to 15 - 20 thousand pieces, and that of 10-key computing semiautomats up to 10 - 12 thousands. The further development of the computer engineering will further the growth of the productive forces of the country. I.Yu.I. Translator's note: This is the full translation of the original Russian abstract.

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BELKIN, N.V.; ZASYPKIN, V.I.

Postal service and computer technology aid industrial management. Vest. sviazi 23 no.3:7-8 Mr 163. (MIRA 16:3)

1. Nachal'nik vychislitel'nogo tsentra TSentral'nogo proyekinokonstruktorskogo i tekhnologicheskogo byuro Moskovskogo oblastnogo soveta narodnogo khozyaystva (for Belkin). 2. Glavnyy inzh. Moskovskogo oblast-nogo upravleniya svyazi (for Zasypkin). (Postal service) (Electronic computers)

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Basic trends of the mechanization and automation of electroplating processes. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. 17 no. 5:77-79 My '64. (MIRAL7:6)

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[I] BELKIN, P. "Selected works in two volumes" by Jean Baptiste Lamarck. Reviewed by R. Belkin. Usp.sovr.biol 48 no.3:375-377 H-D '59. (MIRA 13:5) (LAMARCK, JEAN BAPTISTE, 1744-1829)

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|   | <br>Scientific-technological<br>memory of Professor P.F.<br>Jl 159.                                              | conference on structural mechanics in<br>Papkovich. Sudostroenie 25 no.7:67-68<br>(MIRA 12:12) | · •   |
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BELKIN, R. I.

"The XIIth International Zoological Congress in Lisbon." (p. 544) by Belkin, R. I. SO: Advances in Contemporary Biology (USPEKKI SOVREMENNOI BIOLOGII) Vol. V, No. 3 1936

BELKIN, R. I.

"Biological Periodicals (Review of Reviews) (p. 159) by Belkin, R. I. Associate Editor

SC: <u>Advances in Contemporary Biology</u> (Uspekki Sovremennoi Biologii) Vol. IX, No. 2 1938

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|                |           | birthday). by Belkin, R. I.                                                                                      | YTT NO J 1940    |
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| O: Advances in | Modern Bi | ology (Uspekhi Sovreminnoi Biologie) Vol. 2                                                                      | AII, NO. 1, 1970 |
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