Pd-1/Pi-4 AEDC(a)/ASD(f)-2/-EWT(1)/EWF(m)/EWT(m)/EWA(d)/FCS(k)/EWA(1) L 16885-65 ACCESSION NR: AR4045231 AFETR/AFTC(a) JD S/0124/64/000/007/B036/B036 SOURCE: Ref. zh. Meklianika, Abs. 7B239 B AUTHOR: Skvortsov, T.P. TITLE: The question of the form of the initial boundary section of an ultrasonic stream flowing out into a subsonic similarly-directed flow which is limited by a wall CITED SOURCE: Tr. Kazansk. aviats. in-ta; vy*p. 80, 1963, 76-83 TOPIC TAGS: aerodynamics, ultrasonic flow, boundary section, limited air stream TRANSLATION: A supersonic stream of non-viscous gas flows along a rectilinear wall and, after converging with the wall, comes into contact with a non-viscous gas flow, located beneath the wall and traveling at subsonic speed. The subsonic stream is limited from above by an infinite rectilinear wall. The problem is planar, the flow is steady-state. If is assumed that the boundary of the supersonic stream is the line of the tangential discontinuity of the velocity. The subsonic flow is taken to be unidimensional. After converging with the wall, the supersonic flow is deflected downward and a Prandtle-Meyer flow is formed in it. Meanwhile, the subsonic stream is compressed and the Card 1/2

CIA-RDP86-00513R001651220009-5

L 16885-65 ACCESSION NR: AR4045231 0 velocity within it is increased. In determining the form of the boundary, Bernoulli equations are used for the super- and sub-sonic flow, along with rate constancy equations and an equation of ideal isentropy for the subsonic flow, as well as the condition of pressure continuity in the transition through the separation boundary of the flows. M.I. Gurevich. SUB CODE: ME ENCL: 00 Card 2/2

APPROVED FOR RELEASE: 08/24/2000

.....

ACC NRI AT6007336	/EWA(d)/EWA(1) WW SOURCE CODE: UR/2529/63/000/080/0076/0083
A10007550	
AUTHOR: Skvortsov, T. P.	S / B+1
DRG: Kazan Aviation Institute (Kaz	anskiy aviatsionnyy institut)
TITLE: The initial form of the bour into an accompanying subsonic stream	ndary region of a plane <u>supersonic jet flowing</u> m bounded by a wall
SOURCE: Kazan. Aviatsionnyy instit (Mathematics and mechanics), 76-83	ut. Trudy, no. 80, 1963. Matematika i mekhanika
FOPIC TAGS: fluid dynamics, fluid	flow, fluid kinetic equation, supersonic flow
ABSTRACT: The initial shape of the jet flowing into an accompanying su fin was calculated. The calculatio	boundary region between a high pressure supersonic bsonic low pressure gas stream bounded by a short n is based on the six equations
	$\left[\left(\frac{p_{2}}{p_{01}}\right)^{\frac{\kappa}{\kappa}}-1\right]+\frac{w_{2}^{2}}{2}=0$
	$G_3 = p_2 \cdot F_2 \cdot w_2$
	그는 것 같은 것을 다 많은 것 같아요. 이렇게 집에 있는 것 같은 것은 것이 있는 것 같아요. 이렇게 집에 있는 것 같아요. 이렇게 집에 있는 것 같아요. 이렇게 집에 있는 것 같아요. 이렇게 하는 것 같아요. 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이
	$\frac{P_3^2}{\sigma^{K}} = \frac{P_3}{P_{an}}$
Card 1/3	$\frac{P_3^{x}}{P_{02}^{x}} = \frac{P_3}{P_{02}}$

.

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

PRICIFIERY, V., MADIMUY, H., CH. HICHAYOWA, 3.

"Restoration of the omino-sold composition of cerebral albumins in various functional states," a paper submitted at the 2nd Conference on Réschanistry of the Hervons Lystem, AD UkrUSR, 12-10 Teb 1957, Miev.

an dal militari dal di subgrazza se sisti dal se su dan su di

1122/02

APPROVED FOR RELEASE: 08/24/2000



APPROVED FOR RELEASE: 08/24/2000



CIA-RDP86-00513R001651220009-5

SKVORTSOV, V., NECHAYEVA, G., SADIKOV, N.

a in the second

s Ro

"Restoration of the Amino-Acid Composition of Cerebral Albumins in Various Functional States." Papers submitted at 2nd Conference on Biochemistry of the Nervous System, AS USSR, 12-16 Feb 1957, Kiev

Translation 1122802

CIA-RDP86-00513R001651220009-5





CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



SKVORTSOV, V. A.

"The Role of Fodder Materials in the Reproductive Functions of Agricultural Animals." Dr Biol Sci, Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR (Apr-Jun 54). (Vest Ak Nauk, Nov 54) (Short Summary Available)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

APPROVED FOR RELEASE: 08/24/2000

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5

SKVORTSOV, V. A. (Prof, Dr Eiol Sci)

"Gonadotrophic effect of some cultured and wild-growing plants."

report presented at the 5th Intl Cong on Animal Reproduction & Artificial Insemination, Trent, Italy, 6-13 Sep 64.

Dairy Inst, Vologda.

APPROVED FOR RELEASE: 08/24/2000

١

CIA-RDP86-00513R001651220009-5

21184 S/141/60/003/006/023/025 E032/E114

9.2574 (a/so //b.3)E032/E114AUTHORS:Skvortsov, V.A., Krupnov, A.F., and Naumov, A.I.TITLE:A New Maser Without a Freeze-out SystemPERIODICAL:Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,
1960, Vol.3, No.6, pp. 1128-1129

TEXT: A new maser incorporating a molecular beam apparatus producing a beam of ammonia molecules without a liquid nitrogen trap to remove the ammonia vapour, has been developed by the present authors. The apparatus is evacuated by a single diffusion pump type H-5 (N-5) incorporating an oil vapour trap. The molecular beam gun and the resonator were placed immediately above the pump. In the absence of the beam the vacuum was 2×10^{-0} mm Hg, while under working conditions (optimum beam on) the vacuum was 5.5×10^{-5} mm Hg. The consumption of ammonia was 2.8×1017 mol/sec and the corresponding pumping speed was 250 litre/sec. In the usual molecular generators incorporating a freeze-out system, the stability is affected by the freeze-out conditions. The present generator is said to be free from Card 1/2

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

> S/141/61/004/001/018/022 E032/E314

25958

9,2574 Krupnov, A.F., Naumov, A.I. and Skvortsov, V.A. AUTHORS:

A Sealed-off Maser with an Ion-getter Pump and TITLE: Cooling

Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1961, Vol. 4, No. 1, pp.178-179 PERIODICAL:

An ammonia maser oscillator has been developed by the present authors. It incorporates an ion-getter pump and liquid-nitrogen cooling. The maser is designed so that the pumping speed for the ammonia is 1 000 litres/sec and the pumping speeds for all the other gases is about 1 litre/sec In order to achieve this, the ammonia is frozen out by a liquid-nitrogen trap and the remaining gases are removed by an ion-getter pump. The apparatus is shown schematically in Fig. 1. In this figure, 1 is a liquid-nitrogen-cooled dewar; 2 is the connection to a backing pump; 3 is the ion-getter pump; 4 is a getter pump; 5 is the vacuum chamber; 6 is a multichannel beam source giving a molecular beam having a divergence of 12; 7 is a separator consisting Card 1/4

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5

S/141/61/004/001/018/022 E032/E314

of 100-mm long rods and 8 is an invar resonator, 100 mm long. The apparatus is first evacuated with a backing pump to a pressure of 10^{-2} mm Hg. Further reduction of the pressure (down to about 5 x 10^{-6} mm Hg) is achieved by means of cooling, a getter pump (A.G. Mishkin, Elektronika, 12, 62, 1958 - Ref. 1) and an ion-getter pump. During the operation of the device the vacuum is maintained by cooling and the ion-getter pump. The power consumed by the getter and the ion-getter pumps is 100 and 140 W, respectively. During tests the oscillator was found to operate continuously for six days. The pressure remained constant and the only external manipulation required was the addition of liquid nitrogen. It was found that the device could be restarted by introducing liquid nitrogen, switching on the getter pump and then the ion-getter pump.

Card 2/4

APPROVED FOR RELEASE: 08/24/2000

	L 14988-63 EWT(!!), Pk-4/Po-4/Pq+4 RM/WG/JIB, ACCESSION NR: AP3004837	/EWT(m)/BDS/EEC(b)-2/ES(t)-2 /EH/K/IJP(C) S/0141/63/0	06/003/0513/(517
	AUTHOR: Krupnov, A. F.; S	livertsor, V. A.	1 81
	TITLE: On a 4-mm-wave mol	ecular generator using a forme	ldehyde molecular beam
ĺ	SOURCE: IVUZ. Radiofizik	a, v. 6, no. 3, 1963, 513-517	
	TOPIC TAGS: formaldehyds: millimeter-wave-range mass	molecular-beam maser, molecula r, maser, Stark effect	r-been maser, been maser,
and the second	C ¹² H ₂ O ¹⁶ molecule have been at 72,838 Mc has been used in the 4-mm-wave range. If fected by lack of a hyperf: lines of a scaled-down and klystron serving as the rad	nt, rotation constant, and oth n investigated, and the $l_{01}-1$ for the construction of a for he frequency stability of the ine structure. The instrument onia maser with a IM_{010} cavity diation source. The measured 0^{-11} w. Orig. art. has: 2 fo	oo rotation transition maldehyde beam maser maser is favorably af- was built along the and a crystal-stabilized output power of the gener-
	universitete (Scientific Re	edovatel'skiy radiofizicheskiy esearch Institute of Radio Phy	
	University) Card 1/2/		
	SALAN ANTAL SALAN SA	MINELS STRATICS AND STRATES STRATES STRATES	

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5"

RM/JHB/WG/K/EH ACCESSION NR: AP300525.L	5/0056/63/045/002/0101/0102	
AUTHOR: Krupnov, A. F.; SI	kvortsov, V. A.	
TITLE: A molecular beau ma tion in the CH20 molecule	aser in the 4-mm range, operating on the $l_{01}-0_{00}$ transi-	
SOURCE: Zhur. eksper. 1 to following p. 102	eoret. fiz., v. 45, no. 2, 1963, 101-102, and illus.	
TOPIC TAGS: maser, bean m	aser, molecular generator, formaldehyde maser	
absence of fine structure	n at 72,838 Mc, produced by the l_{01} -0 transitions been achieved. Frequency stability is enhanced by the and the presence of an upper-level Stark energy maxi- The power of the molecular generator is 3×10^{-11} v.	
mmi TH OLE TOT 00 THE'		
An emission line produced	by the $5_{14}-5_{15}$ transition was observed at 72,409 Mc. structure of this line are the same as those predicted ion line in the beam was observed in the $1_{01}-0_{00}$ transi- figures.	

ACCESSION NR: AP4009141 S/0056/63/045/026/1000	
ACCESSION NR: AP4CO9141	
ACCESSION NR: AP4009141	
ACCESSION NR: AP4C09141	
AUTHOR: Krupnov, A. F.:, Skvortsov, V. A.	
TITLE: Four millimeter maser with Fabry-Perot resonator	
SOURCE: Zhurnal eksper. 1 teoret. fiziki, v. 45, no. 6, 1963, 2080- 2081	
TOPIC TAGS: Fabry Perot maser, Fabry Perot maser resonator, maser, C H sub 2 O maser, maser separator	-
ABSTRACT: A Fabry-Perot maser operating at 72838 Mc and using the l_{O1} -O ₀₀ transition of the CH ₂ O molecule was dealed Mc and using the	
The resonator consists of two flat discs 6.5 cm in diameter, polished to within 1 micron. The separation between discs is $\lambda/2$ (about 2 mm), and the Q is 2000. Coupling is by two waveguides of like polariza- tion. The resonator is fed with one flat beam of active molecules directed in the gap between the plates. The separator is a variant of a ring system suggested by Krupnov (Izv. vuzov Radiofizika, v. 2,	
Card 1/37	

CIA-RDP86-00513R001651220009-5

ACCESSION NR: AP4009141

658, 1959) and operated at 15 kV. The spectral line in the resonator was observed to be a singlet about 15 kcs wide. Generation was at one frequency, with a signal to noise ratio not less than 20. 'The authors thank N. F. Shcherbakov and A. M. Kislitsyn for making the resonator and V. A. Flyagin and V. D. Kalent'yev for their assistance in building the separator.' Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTE	ED: 26Sep63	DATE ACQ: C)2Feb64	ENCL: 01	
SUB CODE	C: PH	NO REF SOV:	004	OTHER: 002	
	•				
Card 2/3	2	مربعه محمد رومین رومین ا	• • • • • • • • • • • • • • • • • • • •		
and a second					-

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

i a la <u>seconda e e</u>

L 16889-65 EWG(j)/EWA(k)/FBD/EW Pn-4/Po-4/Pf-4/Pi-4/P1-4/Peb I ACCESSION NR: AP5000304	r(l)/EEC(k)-2/EEC(t)/EEC(b)-2/T/EWP(k)/EWA(m)-2 JP(c)/ASD(a)-5/BSD/AFWL/AFETR/RAEM(a)/ESD(gs)/f WG S/0056/64/047/005/1605/161	1
AUTHOR: Krupnov, A. F.; Sky	<u>vortsov, V. A</u> .	
TITLE: A 4-mm maser with a	Fabry-Perot type resonator	8
SCURCE: Zhurnal eksperiment no. 5, 1964, 1605-1611	tal'noy i teoreticheskoy fiziki, v. 47,	
TOPIC TAGS: maser, formaldors on a constant of the second	ehyde, formaldehyde maser, Fabry Perot, , generation mode, maser action, Stark	effect
tion modes in a beam of act tively on the basis of a str resonator of the Fabry-Pero excitation parameter is obt is $\lambda/2$ and the oscillation is electric field. In this can transition in the HCHO mole this transition was studied	spectral line observed in various osci ive HCHO molecules is explained qualita ady of the structure of the field in a type. It was established that the ma ained when the distance between the mir node is that having a single movimum of se, generation was obtained on the 1_{01} - cule. The Stark effect associated with . A peculiarity of the effect of this ion of an electric field shifts the spe	- ximum rors the -000
		-

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

\$....<u>£</u>___

,

.

TTD/_\	55 EWG(j)/ENA(k)/FB /EWP(k)/EWA(m)-2/EWA(WG/RM ON NR: AP5007042		S/0120/65/000/00		
AUTHOR	: Krupnov, A. F.;	Skvortsov, V	A. 1		61
TITLE:	Some experimental a	studies of for	maldehyde masers		P
SOURCE:	: Pribory i tekhnika	eksperiment	a, no. 1, 1965, 12	8-132	
	AGS: maser, forma	나무의 것과 고문가 같아?			
4-mm ma ninth har the hooku Hence, a condition	CT: Some results an aser operating on 10 monic of a quartz-ph up permitted a contin n numerical evaluations was possible. Pol as used as a source	hase-AFC-stand hase-AFC-stand huous monitor on of the numb hyform (a pur of formaldeby	ion of the formalde ibilized klystron w ing of the gain oer of active molec e polymer of the p de because it did r	as used as the f the unexcite cules under va olyhydroxyme not contamina	e. Ine e signal d mase arious <u>thyle</u> ne te the
Dewar ve was kent	essels. To increase at -60C; at a still l nd the beam was ver	the population temperation to the population to the population of	n of the loi - 000 le ature, formaldehyd	le condensatio	on took

CIA-RDP86-00513R001651220009-5

L 36962-65 ACCESSIÓN NR: AP5007042 the authors produced a wide flat beam of active molecules for a Fabry-Perot resonator; the system yielded three times as many active molecules as the conventional quadrupole system would have produced. The Fabry-Perot resonator comprised two 6.5-mm-diameter plane parallel brass mirrors polished within 1μ . The frequency of the above transition proved to be 72838.0 Mc. Also, the 5_{44} - 5_{45} line of formaldehyde with a frequency of 72409 Mc was tested. Orig. art. has: 2 figures and 1 table. [03] ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri GGU (Scientific Research Radio Physics Institute at GGU) SUBMITTED: 19Dec63 ENCL: 00 SUB CODE: EC NO REF SOV: 008 OTHER: 004 ATD PRESS : 3221 Card 2/2 10

APPROVED FOR RELEASE: 08/24/2000



CESSION NR: AP5005360	\$/0109/65/010/002/0378/0379
JTHOR: Krupnov, A. F.; Skvor	<u>tsov, V. A.</u>
ITLE: On the problem of sort	ing molecules in a beam maser 25 B
DURCE: Radiotekhnika i elekt	ronika, v. 10, no. 2, 1965, 378-379
DPIC TAGS: maser, beam maser adrupole sorting system, rin	, molecular sorting, sorting system, g sorting system
etermine which was more exped eam maser without diaphragms as used in the experiment. H and 17 mm in length, and the f ately equal. The effectivene	pole aorting system were investigated to lient for utilization in beam masers. A which had a cavity for E010 oscillations both sorting systems were 2 mm in diameter leld intensities produced were approxi- ass of the systems was determined by the litation n. Measurements were made at the end of the sorting system and the cav- d = 2.5 mm and 0.6 at d = 17 mm for the litation the sorting system of d for the ring

L 32252-65	•				
ACCESSION NR	.: AP5005160)		0	
		ich demonstrates the pract			
clusion that	the effecti	systems. Further analysi veness of sorting does not sorting system but on the	depend on	the direc-	
	ular beam in	i relation to the cavity fi			
ASSOCIATION :	none				
SUBMITTED:	01Feb64	ENCL: 00	SUB	CODE: EC	
NO REF SOV:	008	OTHER: 001	ATP.	PRESS:32022	
Card 2/2					

L 4101E 66 EWT(1)/EEC(k)-2/EWP(k)/T/FBI) IJP(c) WG SOURCE COD3: UR/0141/66/009/004/0824/0827 ACC NR: AP6026940
AUTHOR: Krupnov, A. F.; Skvortsov, V. A. 473 ORG: Scientific-Research Institute of Radiophysics, Gor'kiy University (Nauchno-issledovatel'skly radiofizicheskiy institut pri Gor'kovskom universitete)
TITLE: Increasing the beam length in a maser with spaced resonators SOURCE: IVUZ. Radiofizika, v. 9, no. 4, 1966, 824-827
TOPIC TAGS: maser, gaseous state maser ABSTRACT: Practical methods of increasing the maser beam length, i.e., of enhancing the line Q-factor, were investigated. Various schemes of formation of a of enhancing the line descent tested. The maximum distance between the sorting
of enhancing the line Q-factor, were investigated. Various concerns the sorting long-beam of active molecules were tested. The maximum distance between the sorting system and the single resonator at which the self-excitation was still possible served as an efficiency criterion. A maser with $J = 3$, $K = 3$, $N^{14}H_3$ was used in the experiments. A 0.15-mm diameter channel whose length was equal to its diameter was used as a beam source. The sorting system 100-mm long, 6-mm diameter consisted of rings with 3-mm spacings between them. For E_{010} -mode, the 100-mm long resonator had a Q-factor of about 9000. Generation was obtained with a distance of 70 cm between the sorting system and the single resonator. The optimal distance between the source and the sorting system proved to be 19 mm. A 0.5-mm deviation of the source from the sorting-system axis halved the excitation parameter, which testified to
UDC:621.378.33
Card 1/2

ŧ

•

	<u>L'11018-66</u> ACC NR: AP6026940]
	the fact that larger beam diameters should not have been used. These results corroborate G. Becker's results (Zs. angew. Phys., 1963, 15, 281) about the advantages of the point sources and ring sorting systems whose field is independent of the azimuth and which ensures the absence of "azimuth aberrations" in forming the active-molecule beam. F. Holuj's et al. conclusions about a partial structure resolution with an interresonator distance of 30-cm based on a certain asymmetry in the amplitude-frequency maser characteristics is held premature; this asymmetry could be due to some technical factors. A radiation line was observed by the authors with a 2-mm distance between the resonators; this line was completely resolved into two components separated by 1586 ± 80 cps. Orig. art. has: 3 figures and 1 table. [03]	
	SUB CODE: 20 / SUBM DATE: 24 Jan 66 / ORIG REF: 009 / OTH REF: 005 / ATD PRESS: 5159	and a second
	Card 2/2 hs	

11017-66 EMT(1)/ ACC NR: AP6026941 RM/WG/DS <u>j)/ WP(k)/T/FBD</u> IJP(c)/E#T(m)/EEC(k) SOURCE CODE: UR/0141/66/009/004/0827/0828 AUTHOR: Krupnov, A. F.; Skvortsov, V. A. 533 ORG: Scientific-Research Institute of Radiophysics, Gor'kiy University (Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gorkovskom universitete) TITLE: Reorientation of molecules in a formaldehyde beam maser 12 SOURCE: IVUZ. Radiofizika, v. 9, no. 4, 1966, 827-828 TOPIC TAGS: maser, liquid state maser, gaseous state maser ABSTRACT: Reorientation processes in a formaldehyde 101-000-transition maser were experimentally investigated. Only the molecules having M = 0 interact with an Eo10 field when they enter the resonator. When a reorienting field is superposed, the transitions $M = 0 \rightarrow M = \pm 1$ and $M = \pm 1 \rightarrow M = 0$ will take place with equal probabilities, and the excitation parameter will decrease. The excitation parameter was found to decrease to one third at 100% reorientation. A small ring encompassing the molecular beam was placed between the ring-type sorting system and the E₀₁₀-mode resonator and served as a weak-field-creating electrode; the maserwas operated as in amplifier; the excitation parameter and the ring voltage were measured. With the same sorting system, source, and reorienting ring, experiments were conducted with $N^{44}H_{\pi}$ maser, J = 3, K = 3. In this case, the effect of ring voltage on the excitation Card 1/2 UDC: 621.378.33

APPROVED FOR RELEASE: 08/24/2000
ACC NR: AP6026941 parameter was very weak (about 1%). Thereupon, with an outfit described by N. G. Basov et al. variation of the excitation parameter was found lower than that in the formaldehyde maser. Orig	(ZhETF, 1963, 45, 1768); the main to be about 205 which is subst	
SUB CODE: 20 / SUBM DATE: 24Jan66 / ORIG REF: 0	02/ ATD PRESS: 5059	
•		
	•	
		-

ACC NR:	AP7008267	SOURCE CODE: UR/ 141/67/010/001/0140/0142
AUTHOR:	Krupnov, A. F.; Skvor	rtsov, V. A.; Sinegubko, L. A.
ORG: Sc issledov	ientific Research Rad: vatel'skiy institut pr	iophysics Institute of the Gor'ky University (Nauchno- i Gor'kovskom universitete)
TITLE:	The optimal variant o	f a two-resonator maser with opposing beams
SOURCE:	IVUZ, Radiofizika,	v. 10, no. 1, 1967, 140-142
ABSTRACT advantag circuits determin resonato single n (beam at maser op where N first re The rela	ge in the authors studie ge in the effective Q- s with distributed res ned as the ratio of th or circuit to the Q- resonator. An experim ttenuation coefficient perating on the 3-3 tr (0) is the number of a esonator, and N(1) the ationship of the numbe sorting system placed es N(0) reaching the r	state maser, ammonia, Q factor, resortor Q factor, ed the optimal configuration and the limiting gain factor of the narrowed spectral lines in Ramsey maser conators and opposing beams. The gain advantage was ne effective Q-factor of the spectral line in a two- factor of the spectral line in a generator with a ment was performed to determine the dependence of X(ℓ) t as a function of the length of the resonator) with a ransition of ammonia N ¹⁴ H ₃ . Above, X(ℓ) = N(ℓ)/N(O), active molecules arriving from the sorting system of the e number of molecules that reach the second resonator. er of active molecules N(ℓ) reaching the single resonator at a distance ℓ from the resonator, to the number of resonator placed next to the sorting system ($\ell = 0$) was UDC: _621.378.3

a All strategical description has

ACC NRI APTODROG7	
ACC NR: AP7008267	
also measured. When both these measurements were made the power gain $K(t)$, $K(0)$ of the non-excited maser was measured for a constant beam intensity and sorting voltage Fig. 1 (a plot of X vs. t) shows some of the results obtained. By using the experi- mentally obtained dependence of $X(t)$, for example, the maximum possible gain advan- tage of the effective line Q-factor of a two-resonator over a single (10 cm long)	;e.
X Fig. 1. Dependence of the beam attenuation coefficient on the length of the resonator	
U V	
₩ <u>1</u> 10 ℓ~(cm)	
resonator maser was calculated. This gain advantage, which equalled 3.5, corresponded to $l = 27$ cm. The authors thank B. V. Goromov and Yu. I. Nikolayeva for thein help in the experiment. Orig. art. has: 2 figures. [IV]	
SUB CODE: 20/ SUBM DATE: 20Jun66/ ORIG REF: 005/	
Card 2/2	
in a second s	

4

CIA-RDP86-00513R001651220009-5

12 16(1) AUTHOR: .Skvortsov, V.A. SOV/20-127-5-10/58 TITLE: Interrelation Between the Denjoy General Integral and Totalization (T₂₈)_o Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 975-976 (USSR) PERIODICAL: **ABSTRACT:** By constructing an example the author proves the existence of a function f(x) with the following properties : 1.) f(x) is integrable in the sense of the general Denjoy integral, of the integral of Marcinkiewicz - Zygmund / Ref 2 /, of the P^2 - integral of James / Ref 3 / and of the SCP - integral of Burkill / Ref 4 / . 2.) The general Denjoy integral of f(x) is different from the integral of the same function in the sense of the totalization (T_{2s}) above integrals of Perron type. and in the sense of the other Simultaneously it is shown that the totalization $(T_{2s})_{o}$ and the above integrals of Perron type do not necessarily possess the N - property of Luzin. Card 1/2

APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5 . . . 1 SOV/20-127-5-10/58 Interrelation Between the Denjoy General Integral and Totalization $(T_{23})_0$ There are 6 references, 1 of which is Soviet, 1 French, 1 Polish, 1 Canadian, 1 English, and 1 American. ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov) April 27,1959, by A.N. Kolmogorov, Academician PRESENTED: SUBMITTED: April 27,1959 Card 2/2

APPROVED FOR RELEASE: 08/24/2000

16.2000

▲UTHOR:

CIA-RDP86-00513R001651220009-5

s/039/60/052/001/002/009 XX

85940

c111/c222

Skvortsov, V.A. (Moscow) Relations Between the General Denjoy Integral and the TITLE: Totalization (T25) Matematicheskiy sbornik, 1960, Vol. 52, No . 1, pp. 551-578 PERIODICAL: There exist several generalizations of the Lebesgue integral in-TEXT: tegrating each sum of an everywhere convergent trigonometric series JbTo these generalizations there belongs the totalization $(T_{2S})_{o}(cf.(Ref. 1))$ introduced by Denjoy as well as the integrals of the type of Perron: The integral of Marcinkiewicz-Zygmund (cf.Ref.2)), the P² - integral of James (cf. (Ref. 3)) and the SCP - integral of Burkill (cf. (Ref. 4)). At the other hand there exists the general Denjoy integral. The author investigates the relations between this integral and the integrals mentioned above. It is proved that the totalization $(T_{2S})_0$ and the above mentioned Perron integrals contradict the general integral of Denjoy. For the proof the author constructs a function f(x) integrable in the sense of the Denjoy integral as well as in the sense of the other integrals mentioned Card 1/2

APPROVED FOR RELEASE: 08/24/2000

31

an thair desperation

1

SKVORTSOV, V.A.

Relationship between a D-integral and totalization (T₂₅). Vest. Mosk. un. Ser. 1:Mat., mekh. no.6:20-25 N-D '62. (MIRA 16:2) 1. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo universiteta. (Integrals, Generalized) (Functions)

APPROVED FOR RELEASE: 08/24/2000

SKVORTSOV, V.A.

Trigonometrical series convergent to nonnegative functions. Vest. Mosk. un. Ser.l: Mat., mekh. 17 no.5:3-10 S-0 '62. (MIRA 15:9) l. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo universiteta. (Fourier series) (Functions)

APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5 SKVORTSOV, V.A. (Mcskva) Some properties of the Cesaro-Perron integral. Mat. sbor. 60 no.3:

(MIRA 16:3) 304-324 Mr '63. (Integrals, Generalized)

SKVORTSOV, V.A. A Cantor type theorem for Haar's system. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.5:3-6 S-O '64. (MIRA 17:12) 1. Kafedra teorii funktsii i funktsional'nogo analiza Moskovskogo universiteta.

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5

SKVORTSOV, V.A. (Moskva)

Integration of an exact asymptotic Schwarz derivative. Mat. sbor. 63 no.3:329-340 Mr '64. (MIRA 17:4)

APPROVED FOR RELEASE: 08/24/2000

SKVORTSOV, V.A.

Du-Bois-Reymond's theorem for generalized integrals and trigonometric series summable by Abel-Poisson's method. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.4:16-20 J1-Ag '64. (MIRA 17:8)

1. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo universiteta.

APPROVED FOR RELEASE: 08/24/2000

WA(m)-2 Fm-h/Pn-li/Po-li/Pf-li/Peb/P1-li/P1-li SCTB/LJP(c)-Wa	I (k)/EWA (h)/	調査
WA(m)=2 Fm-4/Pn-4/Po-4/Pf-4/Peb/P1-4/P1-4 SCTB/LJP(c) WG CCESSION NR: AP50100 1 UB/0141/65/00	E/001/0200/0203	
UTHOR: Krupnov, A. F. Skvortsov, V. A.	k	
ITLE: On the excitation parameter of a beam maser	B	
OURCE: IVUZ. Radiofizika, v. 8, no. 1, 1965, 200-203		
OPIC TAGS: beam maser, formaldehyde maser, excitation parameter		
BSTRACT: The authors estimate quantitatively the influence of col- aser beam on the value of the maximum attainable excitation parame ained results are compared with experimental data for a formaldehy or which were presented by the authors earlier (Izv. vyssh. uch. z a v. 6, 513, 1963; ZhETF v. 45, 101, 1963). The dependence of the	ter. The ob- de maser, data av Radiofizi- excitation	
arameter on the molecule flux and on the length of the sorting sys- ained with collisions taken into sccount. Plots are presented of f the excitation parameter with the sorting voltage, the source ter- ength of the sorting system, and the beam intensity. The agreement neoretical calculations and the experiments is satisfactory, but it hat the absolute value of the excitation parameter estimated in the	the variation sperature, the t between the t is expected	
ained with collisions taken into account. Plots are presented of I the excitation parameter with the sorting voltage, the source ter ength of the sorting system, and the beam intensity. The agreement neoretical calculations and the experiments is satisfactory, but it	the variation sperature, the t between the t is expected	
ained with collisions taken into account. Plots are presented of I the excitation parameter with the sorting voltage, the source ter ength of the sorting system, and the beam intensity. The agreement neoretical calculations and the experiments is satisfactory, but it hat the absolute value of the excitation parameter estimated in the	the variation sperature, the t between the t is expected	

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000



KASHUBA, B.P.; DONDE, V.N.; ZELIKOVSKIY, L.M.; KARMAZIN, E.I.;
KUT'KOV, G.M.; LINCHEVSKIY, V.V.; OGIY, G.Ye.; SEPITYY,
V.T.; SKVORTSOV, V.F.; BANNIKOV, S.A., red.; PESTRYAKOV,
A.I., red.; BALLOD, A.I., tekhn. red.; GUREVICH, M.M.,
tekhn. red.

[The T-75 tractor; design and operation] Traktor T-75; ustroistvo i ekspluatatsiia. Moskva, Izd-vo sel'khoz. litry, zhurnelov i plakatov, 1961. 335 p. (MIRA 15:2) (Tractors)

APPROVED FOR RELEASE: 08/24/2000

-

Meroarate, M. H.

....

2/48/ Dispersnost' pouvy i faktory yeye opredelyayushchiye. Trudy vsesoyuz. Nauch-Issled. Ia-ta giobreniy, agrotekhniki i agropochvovedeniya is. Gedroytsa, vyp 29, 1949, c. 218-30. Bibliogr: 22 nazv.

30: LEPOFIS' NO. 35, 1949

APPROVED FOR RELEASE: 08/24/2000





CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5 M-2 USSR / Cultivated Plants. Grains. Abs Jour: Ref Zhur-Biol., No 6, 1958, 24953 : Mosolov, I. V., Dmitriyeva, N. A., <u>Skvortsov, V. F.</u> : The All-Union S.R.I. of Fertilizers and Agricultural Author Inst Soil Science : The Effect of Various Forms of Nitrogen Fertilizers on the Winter Wheat Yield in Relation to Application Title Time Orig Pub: Byul. nauchn.-tekhn. inform. Vses. n.-i. in-t udob. i agropochvoved., 1956, No 2, 32-33 Abstract: No abstract. Card 1/1 21

CIA-RDP86-00513R001651220009-5

Skeertser, U.F. I-5 USSR/Soil Science. Mineral Fertilizers. Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22509 Author : Yakovlova, V.V., Skvortsov, V.F. Inst : The Effect of Molybdenum or Clover Yield Increase on Podzol Title Soils. Orig Pub: Udobrenie i urozhai, 1956, No 5, 29-36 Abstract: Preliminary vegetative experiments proved that Mo is strongly held by acid soils (red earths and podzol). In 1954 field tests and 1955 production tests, non-root nutrition of clover by Mo in the form of ammonium molybdate (0.15 g Mo/100 1 water/hectare) and liming of acid soil increased Mo assimilation by plants and acted favorably on their yield, bringing an increase of hay crop in the second harvest of 4.3 centners/hectare when the control yield was 22.4 centners/hectare. In the experiment in 1955, when -21-: 1/2 Card

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5

.USSR/Soil Science. Mineral Fertilizers. Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22509

> the control yield was quite high, the Mo feeding showed no effect. In the production experiment, the hay crop of the second harvest obtained was 32.1 centners/hectare against 15.7 centners/hectare in the control. With molybdenum feeding (150 g/hectare) the qualitative composition of hay was improved by the yield of clover, and decreased weed content. The Mo dosage recommended for non-root feeding is 150 g/hectare. In vegetative experiments the effectiveness of a ferromolybdenous slag from Chelyabinsk plant was higher than that of ammonium molybdate when added to the soil.

> > -22-

Card : 2/2

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5"

I-5

USSR / Cul	tivated Plants. Grains. M-2	
Abs Jour: Author :	Ref Zhur-Biol., No 6, 1958, 24952 Mosolov, I. V., Dmitriyeva, N. A., <u>Skvortsov, V. F.</u> The All-Union Inst. of Fertilizers, Soil Science, and Agricultural Engineering The Effect of Various Forms of Nitrogen Fertilizers	
-	on the Winter Wheat Yield	
	Udobreniye i urozhay, 1956, No 10, 42-43	
Abstract:	The laboratory of Plant Nutrition of the All-Union Institute of Fertilizers, Soil Science, and Agri- cultural Engineering experimented on the effect of various forms of nitrogen in spring and autumn side-dressings. The soil was heavy loam, subjected to average cultivation, its pH was 4.6, the hydro- litic acidity 3.85 milliequivalents per 100 grams of soil. In the 1954 tests with a damp fall the	
Card 1/2	20	





CIA-RDP86-00513R001651220009-5

"APPROVED FOR RELEASE: 08/24/2000



APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5

37)61 s/057/62/032/004/007/017 B162/B102

9.257

Mash, D. I., and Skvortsov, V. I.

TITLE:

Frequency dependence of the components of the magnetic tensor and of the complex dielectric constant of some ferrites in the shf range

PERIODICAL: _ Zhurnal tekhnicheskoy fiziki, v. 32, no. 4, 1962, 435-440

TEXT: Measurements were made of $\mathcal{E} = \mathcal{E}' + i\mathcal{E}''$ and an investigation was carried out into the dependence of the components ($\mu = \mu' + i\mu''$) of the tensor of magnetic permeability, $\hat{\mu}$ on the magnetizing field for ferrite of type 191 on a 0.8 cm wave and for the types Φ -1000 (F-1000) and Φ -20 type 191 on a 0.8 cm and 8 mm. Relations are given linking the variation (F-20) and 76 on 3 cm and 8 mm. Relations are given linking the variation in the complex natural frequency of the resonator when a thin ferrite plate is placed in its cavity. Conclusions: The \mathcal{E} -values measured at 3 and is placed in its cavity. Conclusions: The \mathcal{E} -values measured at 3 cm frequency range). The μ -values of non-magnetized ferrites differ at 3 cm and 8 mm ($\mu' \approx 0.6-0.4$, $\mu'' \approx 10^{-2}$; $\mu' \approx 1$, $\mu'' \approx 10^{-3}$). The relation between the components of $\hat{\mu}$ of the ferrites examined and the constant

Card 1/2

APPROVED FOR RELEASE: 08/24/2000









CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000












CIA-RDP86-00513R001651220009-5



PÅ 34T5 SKVORTSOV, V. N. Jan 1947 USER/Chimistry - Colloids Chemistry - Reactions "Chemical Reactions in Colloidal Solutions," V. N. Skvortsov, 5 PP "Kolloidnyy Zhurnal" Vol IX, No 1 Kinetics of the reaction of hydrosols, containing particles of similar charge. As a result of the experiments, the author was able to establish the main types of elementary reactions for hydrosols. Some basic kinetic formulas were drawn up based on simple reactions of hydrosols. The relationship of the sol of Rafio-Svedberg's sulphur, and the sol of Gutbir's silver was also shown. Submitted at Moscow Higher Technical School. 3415 LC

APPROVED FOR RELEASE: 08/24/2000





CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5 •

SKVORTSOV, V. N.			183721	
SKYURTSUY, Y. N.	T2125	ID183T21USSR/Chemistry - Colloids (Contd)May/Jun 51and H2SO4, with and without presence of Na2HA3O4.Found aggregates of Mn oxides can accumulate ongold nuclei of Zsigmondi sol, forming almost mono-disperse sol of Mn oxides with zonal distribution.	"Chemical Reactions of Colloidally Dispersed Sub- stances. VI. Structure of Aggregates of Certain Polycomponent Colloidal Particles," V. N. Skvort- sov, Higher Tech School imeni Bauman "Kolloid Zhur" Vol XIII, No 3, pp 208-216 Developed theory of formation based on different rates of aggregation and reactions of substances, and by expt proved existence of zonally constructed colloids. Studied reaction rates of mono- and poly- disperse sols contg MnO2 and Mn ₂ O ₃ with oxalic acid	USSR/Chemistry - Colloids May/Jun 51
	an a			J.

CIA-RDP86-00513R001651220009-5

SKUCRTSOV V.N. Pickling of threaded parts V. N. Skyörköv and Z. II. Sizonova, Zuskchin Metaller of Kortoni i Ornaceasive Nakipi (Mescow: Gosudarst, Nauch. Tekin Izdatie, Ma-silinostroitel, Lit.) Shornk 1953, No. 24, 3-7; Refered Zhuy, Khini 1956, Abstr. No. 8724; cf. GA, 50, 6329; r A method for pickling of close tolerance threaded steel parts in 6%, If.co. son, for 5-10 min; it room temp. Is offered. The diam, decrease of the parts during the process is respectively 0.003 and 0.008 mm. For pickling Cu End brass threaded parts, the following process is recommended: pickling in Hill acid (sp. gr. 1.18) at 17-20 for 3-8 min; washing 3 times in running water; passivation in a soln, of min. The dimensions of the thread decrease alter, the pickling, but are restored after the passivation. N, Y. 18 MT

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5 SKVORTSOV, V.N., professor, doktor khimicheskikh nauk; SAZONOVA, Z.I., assistent. Trisodium phosphate substitutes used in degreasing soldered brass parts. [Trudy] MVTU no.24:16-19 '53. (MIRA 7:10) (Metal cleaning)





SKVORTSOV, V.N., doktor khimicheskikh nauk, professor.

and the second second

Activities of the Chemistry Department of Moscow Technical College. Trudy MVTU no.36:3-5 '55. (MLRA 9:9)

(Moscow--Chemistry--Study and teaching)

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5



APPROVED FOR RELEASE: 08/24/2000





APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5

SKVORTSOV, V.N., doktor khimicheskikh nauk, professor.

Corrosion of metals in the systems with medium degree of dispersion. Trudy MVTU no.36:21-29 '55. (MLRA 9:9)

(Corrosion and anticorrosives)

APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5 SKVORTSOV, V.F. NALIVKIN, Dmitriy Vasil yevich, akademik: SKVCHTSOV, V.P., redaktor; AVERKIYEVA, T.A., tekhnicheskiy redaktor [Brief outline of the geology of the U.S.S.R.] Kratkii ocherk geologii SSSR. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1957. 143 p. (MIRA 10: (MLRA 10:9) (Geology)

SKVORTSOV, V.P.

Distribution of Foraminifera in Tournai and Lower Visean Sediments in the southern part of the Son-Kul' region. Izv.AN Kir, SSR. Ser. est. i tekh.nauk 4 no.7:73-81 '62. (MIRA 16:3) (Son-Kul' region--Foraminifera, Fossil)

APPROVED FOR RELEASE: 08/24/2000

SKVORTSOV, V.P.

New Visean Foraminifera in northern Fergana, Paleont. zhur. no.3:23-32 '65. (MIRA 18:9)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Kirgizskov SSR.

APPROVED FOR RELEASE: 08/24/2000

ANTONOV, V. Ya., VLASCV, V. M., KRIVONOSOV, V. S., HELOKHVOSTOV, A. G. and SKVORTSOV, V. S.

"Treatment of herpes tonsurans..." Veterinariya, vol. 39, no. 2, February 1962 pp. 24

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5 "APPROVED FOR RELEASE: 08/24/2000 HU.C. 600 SEVERTSOV4VESS 1. SENORISON, 7. S.; Inzh. 2. USU: (600) 4. Girders 7. Friangular wood and motal truss girders. Biul. stroll takh 9 No. 7, 1952 Upravlaniye Stroitel'stva Dvortsa Sovatov 9. <u>Monthly List of Eussian Accession</u>, Library of Congress, August, 1912. DicLABSTRED

APPROVED FOR RELEASE: 08/24/2000

S"VORTSOV, V. S.

Girders

A BOA

New construction of pentagonal metal and wood girders. Stroi. Prom. 30, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 08/24/2000

SKVORTSOV, V. S.

Cand Tech Sci - (diss) "Rational rod systems." Leningrad, 1961. 12 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Order of Labor Red Banner Construction Engineering Inst); 200 copies; price not given; (KL, 5-61 sup, 193)

APPROVED FOR RELEASE: 08/24/2000

CIA-RDP86-00513R001651220009-5"

and a state of a state

CHER CHER CHER

SEVERISEV, V. J. -- "Application of the Method of Finite Differences to the Solution of Systems of Linear Second-Order Eliptic Partial Differential Equations." *(Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, L'vov State U imeni Ivan Franko, L'vov, 1955

- SO: Knizhnava Letonis", No. 25, 18 Jun 55
- * For the Degree of Doctor of Physicomathematical Sciences

APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5

SOV/124-57-8-9262 Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 8, p 99 (USSR)

AUTHOR: Skvortsov, V. S.

动物的 网络美国大学大学 网络美国大学大学大学大学大学大学大学

TITLE: On the Solution of a System of Differential Equations of the Elasticity Theory by the Finite-difference Method (K resheniyu sistemy differentsial'nykh uravneniy teoriy uprugosti metodom konechnykh raznostey)

PERIODICAL: Nauch. zap. L'vovsk. torgovo-ekon. in-ta, 1956, Nr 2, pp 199-207

ABSTRACT: On the basis of the work of Courant, Friedrichs, and Levi (Upsekhi matem. nauk, 1941, Nr 8), the paper studies the question of the existence and uniqueness of the solution of a system of difference equations which correspond to the differential equations of the theory of elasticity in a spatial problem for the case of given boundary displacements. P. M. Varvak

Card 1/1

APPROVED FOR RELEASE: 08/24/2000

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5

SAYON SEY V.

TEJECT USSR/MATHEMATICS/Differential equations CARD 1/1 PG - 746 AUTHOR SKVORZOV V.S. TITLE The application of the difference method for the solution of systems of partial differential equations. PERIODICAL Doklady Akad.Nauk <u>112</u>, 20-23 (1957) reviewed 5/1957

The author investigates the question of the applicability of the difference method for the solution of the first boundary value problem for systems of linear partial differential equations of second order and elliptic type. The differential equations are replaced by difference equations. Under some additional assumptions for this approximating system the existence of the solution is proved by the construction of the fundamental matrix. Without maximum principle, which in this case cannot be applied, the error of such an approximative solution is determined for systems of second order with constant coefficients in the R_2 and R_3 . The author's results partially are

generalizations of results of Duffin (Duke Math.J. 20, no.2, 233 (1953)) and of Courant, Friedrichs and Levi.

INSTITUTION; Trade-economical Institute, Ljvov.

APPROVED FOR RELEASE: 08/24/2000

SKVORTSOV, V.V.; CHUMAYEVSKIY, A.V. NO SHOW

> For daily application of the directives of the July Plenum of the Central Committee of the Communist Party of the Soviet Union. (MIRA 9:3) Sel'khozmashina no.12:1-3 D '55. (Agricultural machinery industry)

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651220009-5

KOZLOV, N.N.; SKVORTSOV, V.V.; OBYSOV, A.N.; OSIPENKO, Yu.K.;
KHOKHLOV, B.A., glav. red.; CHUPROV, D.P., nauchnyy red.;
VCSTROV, V.M., red.; DVIZHKOVA, N.M., red.; ZHEBRAKOV,
N.A., red.; ZLATOTSVETOVA, I.I., red.; RAGAZINA, M.F., red.;
FARADZH, N.O., red.; YEGOROVA, M.I., red.; MASLYANITSYNA,
N.I., red.; PETRYAKOVA, T.D., red.

[Instruments, appliances, and mechanisms for assembling and special work] Instrumenty, prisposobleniia i mekhanizmy dlia montazhnykh i spetsial'nykh rabot. Moskva, Vol.2. 1962. 226 p. (MIRA 16:7)

1. Moscow. Gosudarstvennyy institut po vnedreniyu peredovykh metodov rabot i truda v stroitel'stve. (Construction equipment)

APPROVED FOR RELEASE: 08/24/2000