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		Pickup cl with mech 35 162.	haracteristic hanical trans	mission a	ystems. Trud	ly TSNII MPA	locomotives 5 no.241:20- (MIRA 15:12)	
			(Gas turbine	95)	(Locomotive	s)		
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BARTOSH, Ye.T., kand.tekhn.nauk

N. WILLIAM F.

Selecting the design parameters of traction turbines for gas-turbine locomotives. Vest. TSNII MPS 22 no.2:9-13 '63. (MIRA 16:4) (Gas-turbine locomotives-Design and construction)

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	[Gas-turbine] zheldorizdat, (Gas	locomotives 1963. 94 p -turbine lo	Gazoturbovozy).)comotives)	. Moskva, (MIR)	, Trans- A 16:4)	
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Determining the characteristics of double-shaft gas-turbine engines. Vest. TSN11 MPS 24 no.5:19-22 165.

(MIRA 18:9)

1. 26125-65 Ext(d)/Ext(m)/Exp(1)/T-2/EPR/ENA(c)	
ACCESSION NR: AT4049523 S/2917/64/000/282/0065/007	5
AUTHOR: Bartosh, Ye. T. (Candidate of technical sciences)	
TITLE: Performance curves of radial centripetal turbines ??	-1000
SOURCE: Moscow. Vsesoyuznyy nauchno-insiedovatel'skiy institut zheleznodorozhnogo transportz. Trudy, no. 282, 1964. Rezul'taty issiedovaniy gazoturbovoza G1-01 i lokomotivnykh gazoturbinnykh dvigateley (Resul's of research on tho gas turbine locomotive G1-01 and locomotive gas turbine engines), 65-75	
TOPIC TAGS: gas turbine, radial turbine, radio centripetal turbine, turbine performan curve, locomotive turbine # [froshalf Errce]	ce
ASTRACT: Lately, radi/ contripctal turbines have been introduced in different branc of engineering, due to the advantages of radial stages it comparison with anial flow turbines. Radial turbines with straight radial vanes are simple and of low cost. The hea drop is 19-40% higher at the rotor rim of a radial stage in comparison with an axial stage at similar peripheral speed, while the speed may be increased by 30-40%, resultin in higher power. Loss of power is higher in the centripetal stages than in axial stages while the losses at the nozzies and leakage are lower. Radial turbines are mainly single stage. On the basis of the general theory of turbines, an expression is given for the Cord 1/2	ng

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1 26125-65	
ACCESSION NR: AT40	
	entriper turbits. The expression shows that efficiency de. 's rol all at the poper rim. The maximum peripheral spect
	r shirmed into hischanical work by compound contrilingal 1 / 6
ave lab e on variation o	impeller at calculated speed. At present, there are no test day reaction and losses in the nozzles of centripetal turbines for
same basis as for axial ones, nozzle adjusting b boosted, ensuring an in	elative flow coefficients for radial stages are calculated on the onen. The analysis indicates that in radial stages, as in axial by a hyperbolic curve is best done at the same time the turbine is increase in the heat drop. A radial centripetal turbine has several
positive features, ensu power for locomotives.	ring a better future for gas turbine engines of medium and low Orig. art. has: 5 figures and 21 equations.
power for locomotives.	Orig. art. has: 5 figures and 21 equations.
power for locomotives.	Orig. art. has: 5 figures and 21 equations.
ASSOCIATION: Vsesoy transporta, Moscow (I Transportation)	Orig. art. has: 5 figures and 21 equations. wznyy nauchno-issiedovatel'shiy institut zhelezhnodorozhnogo lighton Scientific Research Institute of Railroci
ASSOCIATION: Vsesoy transporta, Moscow (A Transportation) SUBMITTED: 03	Orig. art. has: 5 figures and 21 equations. uznyy nauchno-issiedovatel'shiy institut zhelezhnodorozhnogo Illeinion Scientifis Research Institute of Railrosi ENCL: 00 SUB CODE: PR

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L 26127-65 EMT(d)/EMT(s)/EMP(1)/T-2/EPR/EMA(0)	
ACCESSION NR: AT4049524 8/2917	164/000/272/0076/0083
AUTHOR: Bartoph, Ye. T. (Candidate of technical sciences)	
TITLE: Effect of system volume on pick-up of a twin-shalt gas to	ibin: sneide
SOURCE: Moscow. Vees Jury Bauchao-issledovatel'skly inst	it zhelezzi i nzhnogo
transporta. Trudy, no. 203, 1956. Regultary issledovaniy gazolu lokomotivnykh gazotuvbinnysh ovigateley illesidis of research on i	TRANS A LANGE
locomotive G1-01 and locomotive gas turbine engines), 76-83	
n na na ana ao amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna mandritry dia kaominina dia ka	
TOPIC TAGS: gas turbine, gas turbine pickup, gas turbine volum	e. Prin estal artolico,
locomotive gas turbine	and the second
ABSTRACT: The pick-up of gas turbine engines is usually invest	igated on ind mymption
that passage of the system from one condition to a different one pi	roceeds with 330 main
parameters changing instantly into the values for the new condition other words, the gas and air systems of the engine are considered	without inertia, this
being true for eviation and iccomplive engines of the simple direc	l-flow type. However, Manager
there is a regenerator or pre-cooler. disregarding inertia may le	ad to significant errors
in relation to pick-up of the engin. The present paper desis with of the regenerator on the pick-up of a twin-shaft engine as an exam	mpla. Analysis of the
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ACCESSION NR: AT4(49524

derived equations proves that in twin-shaft locomotive engines, regenerators of large volume may impair the pick-up of the engine. Thus, introduction of regeneration into locomotive gas turbing engines with fixed pick-up may produce increased idling speed of the turbo-compressor and increase of fuel consumption at this speed. This should be taken into account when considering the problem of efficiency and expediency of regeneration in gas turbine locomotives. Orig. art. has: 2 figures and 40 equations.

ASSOCIATION: Vsesoyuznyy nauchno-iseledovatel'skiy institut zhelezhnodorozhnogo transporta, Moscow (111-Union Scientific Research Institute of Bailroad Transportation) SUB CODE: PR

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S/2917/64/000/282/0084/0095

L 26128-65 EWT(m)

ACCESSION NR: AT4049525

AUTHOR: Bartosh, Yo. T. (Candidate of technical sciences)

TITLE: Effect of performance features of locomotive gas turbines on the transient processes of train motion

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta. Trudy, no. 282, 1964. Rezul'taty issledovaniy gazoturbovoza G1-01 i lokomotivnykh gazoturbinnykh dvigateley (Results of research on the gas turbine locomotive G1-01 and locomotive gas turbine engines), 84-95

TORIC TAGS: gas turbine, locomotive gas turbine, turbine, performance, railroad locomotive, train motion

ABSTRACT: The principal performance features of the gas turbine, distinguishing it from other locomotive engines, are the significant deviation of performance curves from hyperbolic ones and insufficient pick-up of the engine, requiring time for passage of the turbo-compressor from idling speed to full power. On railroads, after passing to idling speed (at signals), the locomotive must then change to full power. The differential equation for train motion shows that the acceleration and speed depend on the specific tractive force, specific train resistance and total resistance caused by the grade and Cord 1/2

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ACCESSION NR: AT4049525

horizontal curves. Two solutions are given: for hyperbolic and linear performance curves. Considering these solutions, it was found that the decisive effect on speed for transient and stable train motion is the deviation of the performance surve from a hyperbola. The pick-up of the engine becomes highest curing turbocompressor acceleration for over 0.5 minutes. Gas turbine locomotives with direct drive should therefore be used for high speed passenger and freight trains. The squallons show that for medium and heavy grades, the lowering of speed as the grade increases is more marked with a linear performance curve than with a hyperbolic curve. Analysis of performance features of locomotive power units with gas turbing engines shows the necessity of further investigation of the working process of gas turbines and the dependency of operation of other assemblies of the power unit for improving the tractive force of the gas turbine engine. Is particular, the primary problems are maximum approximation of the external performance curves of gas turbine locomotives with direct drive to a hyperbolic curve, as well as improvement of pick-up of multi-shaft gas turbine engines. Orig. art. has: 4 figures and 30 equations. ASSOCIATION: Vsesoyuznyy naud mo-lesledovatel'skiy institut zhelezhnodorozhnogo transporta, Moscow (All-Union Scientific Research Institute of Railroad Transportation) SUB CODE: PR ENCL: 00 SUBMITTED: DI NO REF SOV: 003 OTHER: 000 Cerd 2/2

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GLAGOLEV, Nikolay Matveyevich; KURITS, Alekasndr Ariyevich; WODOLAZHCHENKO, Vitaliy Vasil'yevich; <u>HATCSH. Yevg</u>eniy Tarasovich; SAZOROV, A.G., red. [Internal combustion engines and gas turbines for diesel locomotives] Teplovoznye dvigateli vmutrennego sgoraniia i gazovye turbiny. Izd.2., perer. Moskva, Transport, 1965. 400 p. (MIRA 18:6)

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L 0/15/-67 EWP(1)F DN/WW ACC NRI AR6014706 SOURCE CODE: UR/0285/65/000/011/0008/0008 AUTHOR: Bartosh, Ye. T. 35 IITLE: Determination of the characteristics of dual-shaft gas turbine engines B SOURCE: Ref. zh. Trubostroyeniye, Abs. 11.49.66 REF SOURCE: Vestn. Vses. n.-i. in-ta zh.-d. transp., no. 5, 1965, 19-22 TOPIC TAGS: gas turbine, gas turbine performance, turbine ABSTRACT: A graphical-analytical method for determining the basic characteristics of dual-shaft locomotive GTD's is presented. The method can substantially simplify the problem of determining the energy parameters of multishaft engines preceding their exact calculations based on the experimental aerodynamic characteristics of the turbine components. /Translation of abstract/ SUB CODE: 10/0 Card 1 UDC : 621.438.001.24

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ACC NRI	AP7005401	(A)	SOURCE CODE:	UR/0232/56/000/0	11/0034/0040
AUTHOR: Ba	artosh,-YeI.	(Doctor of tec	hnical sciences		
ORG: none	•				
service	•		the use of gas o. 11, 1966, 34	turbine locomotiv	es in railroad
		· · ·		on, locomotive eng	ineering
USSR is rev gas-turbing locomotive fuel than t 2.0 to 3.05 sel fuel. railway tra gas turbing mechanical	viewed and fut a installation had an effici the diesel loc a sulfur and i The advantage ansportation a drive with d power transmi	ure prospects a s for locomotiv ency of 10 to 1 omotive. Howev ts projected co s of developing re discussed re c generator and ssion; a three-	re discussed. es was started 2%, i. e., it co er, the fuel was st was 1.5 to 2 gas turbine pr lative to the for motor; two-sha shaft gas turbi	for railroad loco In the USSR the de in 1955. The firs onsumed 2.0 to 2.2 s of a lower grade .0 times less than opulsion for futur ollowing schemes: ft gas turbine dri ne drive with ac s combination gas t	velopment of t gas turbine times more containing that of die- e high-speed a single-shaft ve with direct synchronous
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BARTOSHEK, V. [Bartosek, V.]

Transient states of a reactor during the recharging of fuel elements. Atom.energ. 16 no. 4:315-324 Ap '64. (MIRA 17:5)

1. Institut yadernykh issledcvaniy Chekhoslovatskoy Akademii næuk, Praga-Rzhezh.

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ACCESSION NR: AP4029693	\$/0089/64/016/004/0315/0324
AUTHOR: Bartoshek, V.	
TITLE: Transition states of a re	eactor during reloading
SOURCE: Atomnaya energiya, v. 16,	no. 4, 1964, 315-324
flux, neutron distribution, neutron sition, mixed transition ABSTRACT: The change of a reactor well as the most important physical in	
duces an insignificant reactivity jump distribution of the neutron flux is cons	that the reloading of one fuel element pro- in the entire reactor and that the spatial stant and does not depend on the burn-up neutron multiplication factors in the transitionstate,
	AUTHOR: Bartoshek, V. TITLE: Transition states of a re SOURCE: Atomnaya energiya, v. 16, TOPIC TAGS: fuel element, radiation flux, neutron distribution, neutrisition, mixed transition ABSTRAC'I: The change of a reactor well as the most important physical in transition are discussed, based on the assumption duces an insignificant reactivity jump distribution of the neutron flux is const

ACCESSION NR: AP4029693

difference between the old and fresh fuel elements, and the equilibrium the transition whereby the fuel elements are reloaded at a constant rate equal to an equilibrium rate are discussed in particular. The negative aspect of the equilibrium reactor transition is that the burn-up of the first fuel charge is half that of an equilibrium burn-up. This is because the fuel elements are extracted from the reactor as soon as it is started. Better efficiency can be achieved by delaying the fuel elements in the reactor until they are irradiated to some degree, and then extracting them at a constant rate which would prevent the reactor reactivity from dropping below the required level. The other schemes include: the constant reactivity transition, the mixed transition, and a transition with a second degree reactivity dependence. "The author extends his gratitu de to B. L. Ioffe for his discussion of this project." Orig. art. has: 5 figures and 55 formulas. ASSOCIATION: Institut yadernykh issledovaniy ChSAN, Prague-Rzhezh (Institute of Nuclear Research, Czechoslovak Academy of Sciences) SUBMITTED: 05Jun63 ATD. PRESS : (3050 44 ENCL: 00 的复数运动运行的 11 <u>1</u> H M

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EAT(m)/PPF(c)/EFF(n)-2/EFR/FWP(t)/EPA(bb)-2/FWP(b) Pr-4/Fs-4/Pu-4 -1 195 11-65 SSD/AFWL/IJP(c) 25/44/JA/10/DM ACCESSION NR: AP4049539 s/0089/64/017/005/0380/0384 Bartoshek, V.; Lelek, V. AUTHORS: TIT E: Burnup of natural uranium moving axially in a reactor 21 SOURCE: Ator aya energiya, v. 17, no. 5, 1964, 380-384 TOPIC TAGS: reactor buckling, reactor fuel, reactor operation, nuclear fuel burnup The effect of continuous axial motion of the fuel element BSTRACT: on the neutron flux distribution and on the burnup of natural uranium in a heavy-water reactor is examined. A simplified model in which the variables of the buckling equation are assumed to be separable is used, and allowance is made for the dependence of the neutron multiplication coefficient on the burnup of uranium. Calculations for 10 reactor variants are compared. It is shown that motion of the uranium in a single direction increases the burnup 1/2 Cord

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by approximately 20% compared with the regime in w elements are continuously replaced, and improves the operating conditions of the fuel elements. A regime	he thermodynamic
the fuel moves in opposition to the other half include burnup by 40% without changing noticeably the condi- transfer from the fuel elements. Orig. art. has: I formulas, and I table.	reases uranium itions of heat
ASSOCIATION: None SUBMIFTED: 13Dec63	ENCL: 00
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Economically pla 1 no.6:3-6 Jo	nned large-panel apartm	a)	(MIRA 11:9)	
	(Moscow-Apartment house	007		

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BEKER, M. Ye. [Bekers, M.]; BARTOSHEVICH, G.I.; VIYESTUR, U.E. [Viesturs, U.]; IAZHE, Ya.Ya. [Iaze,J.]
Growing and drying of fodder yeast in the Milgravis Distillery. Ferm. i spirt. prom. 30 no.7:29-33 '64 (MIRA 18:2)
1. Institut mikrobiologii AN Latviyskoy SSR (for Beker). 2. Milgravskiy spirtovoy zavod (for Bartoshevich). 3. Sovet narodnogo khozyaystva Latviyskoy SSR (for Viyestur, Lazhe).

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BARTOSHEVICH,	
USSR/MISCOLLAN#O	us - Radio amateu(s
Cerd :	1/1 Publ 89 - 8/24
Su dore	Bartoshevich, I. Lind Rossa, R.
"itle :	In countries of the Peoples' Democracies
Periodical :	Radio 6, 14 - 15, June 1954
Abstract ?	Under the above title are given three small articles referring to radio- amateur activiti (in Polind, Bulgaris, and Hungary, Illustrations.
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: متها 100 BARTOSHEVICH, M.A. Plane-parallel fabrics of hypersurfaces. Dokl. AN SSSE 124 no.5: (MIRA 12:3) 970-972 1 '59. 1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Predstavleno akademikom P.S. Aleksandrovym. (Surfaces) SEX CONTRACT

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16(1) AUTHOR:	Bartoshevich, M.A.		SOV/20-124-5-2/		
TITLE:	Plane Parallel Fabrics of Hypersurfaces (Plosko-parallel'nyye tkani giperpoverkhnostey)				
PERIODICAL:	Doklady Akademii nauk SS	SR, 1959,Vol 124	,Nr 5,pp 970-972	(USSR)	
ABSTRACT: ASSOCIATION:	The author obtains three theorems with the aid of an invariant method of investigation for embedded manifolds developed by G.F. Laptev [Ref 3,4] and A.M. Vasil'yev [Ref 5]; they contain necessary and sufficient conditions that a p-fabric in the n-dimensional space be equivalent to a plane parallel p-fabric (see Blaschke [Ref 1]). In theorem 1 it is $p = n + 1$, $n > 2$, in theorem 2 p is arbitrary, $n > 2$, in theorem 3 p is arbitrary, n = 2. The author thanks Professor G.F. Laptev for his assistance There are 6 references, 4 of which are Soviet, 1 German, and 1 French.				
PRESENTED: SUBMITTED:	October 14,1958, by P.S. October 9,1958	. Aleksandrov, A	cademician		
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