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KAZACHKOV, Ye.A.; KIRYUSHKIN, Yu.I.; SKOBLO, S.Ya.; BUL'SKIY, M.T. [deceased]; SVIRIDENKO, F.F.; SAPELKIN, N.F.

Formation and heterogeneity of rail ingots cast in ingot molds with a varying wall thickness. Izv. vys. ucheb. zav.; chern. met. 7 no.11:75-80 '64. (MIRA 17:12)

1. Zhdanovskiy metallurgicheskiy institut.

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KITCACAKORATES Fogel'son, Ye. I., and Kazachkova, F. S. AUTHORS: Photocolorimetric Detection of Silicon in High-percentage and TITLE: Medium-percentage Ferrosilicon (Fotokolorimetricheskoye opredeleniye kremniya v vysokoprotsentnom i sredneprotsentnom ferrosilitsii) Zavodskaya Laboratoriya, 1957, Vol. 23, No. 1, pp. 24-25 (U.S.S.R.) PERIODICAL: ABSTRACT: The authors made experiments trying to speed up the gravity method of detecting silicon in ferrosilicon by decomposing a small batch of finely ground material in a 50-percent solution of alkali and making a photocolorimetric analysis of the yellow coloring of the silicon-molybden complex. An iron crucible was used instead of a silver one for the decomposition and the silicon-molybde.num blue was photocolorimetrized on a FEX-M photocolorimeter. Seventeen specimens of high-percentage and three of medium-percentage ferrosilicon were analyzed and respective tables are presented of the results. These tables give the percentages of silicon as shown by the colorimetric and gravity methods of analysis. Card 1/2Moscow automobile, Worker im I.A. Likhacher

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PRAVDUKHINA, V.; KAZACHKOVA, R.

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Rabid way of determining the shrinkage of hides resulting from salting. Mias.ind.SSSR 32 no.2:18 161. (MIRA 14:7)

1. Eksperimental no-proizvodstvennaya laboratoriya Omakogo sovnarkhoza. (Hides and skins)

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NUSINOV, G.O., doktor tekhn.nauk; BRUSHTEYN, N.Z., kand.tekhn.nauk; KAZACHHOVA, S.TS.
Whification of the methods of calculating the basic indices of connection linking and coal gasification in the "Podesemgas" plants. Nauch.trudy VNIIPodesemgaza no.7:33-40 '62. (MIRA 15:11)
1. Laboratoriya gasifikatsii burykh ugley Teseoyuanogo nauchnoissledovatel'skogo institute podzemmoy gazifikatsii ugley. (Coal gasification, Underground)

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	1.	KAZACHKOVA, T. A.
•	2.	USSR (600)
	4.	Botany, Medical - Tomsk
- ,	7.	Cultivating medicinal plants in Tomsk. Trudy Tomsk.un. 114, 1951.
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		the Murch 1953. Inclassified.
	9.	Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

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KAZACHKOVA, T. I.

"The Effect of Certain Opium Alkaloids on the Dynamics of the Electropotential of the Mucuous Membrane of the Stomach, in Relation to Their Effect on its Secretory and Periodic Activity." Cand Med Sci, Turkmen State Medical Inst, Ashkhabad, 1953. (RZhBiol, No 1, Sep 54)

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		VA, T. I. plogy. Pharmacognosy. Toxicology - Analgesics. T-3
055K/P	18 CIMACO	JIOGY. FINATIMACOGIOSY. TOXICOLOGY - AMALECOLOSI
Abs Jo	ur :	Referat Zhur - Biologiya, No 16, 1957, 71673
Author	:	Kazachkova, T.I.
Inst	:	The second secon
Title	:	The Morphine and Heroine Effect on the Periodic Changes in the Electropotential of the Mucous Stomach Membrane.
Orog P	ıb :	Tr. Turkmen. Med. In-ta, 1955, 5-6, 338-346
Abstra	et :	The stomach content of dogs was collected through a fistu- la every 15 minutes. The total acidity, free, and bound acidity were determined. The fluctuation of the electro- potential (E) of the mucous membrane of the stomach and its motility was registered photographically throughout the procedure. The registering of the electrical flow from the stomach was done with the aid of a mirror galva- nometer. The movements of the stomach were recorded by a method of air transmission. Morphine (I) and heroin (II) in doses 0.02-0.05 mg/kg did not produce secretion
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USSR/Fharmacology. Pharmacognosy. Toxicology - Analgesics.

: Referat Zhur - Biologiya, No 16, 1957, 71673

Abs Jour

in the stomach, did not influence the periodic contraction of the stomach, and did not change the dynamics of .E. I in 0.075-0.2 mg/kg doses and II in 0.075-0.1 mg/kg produced in 2-3 hours a lowering of E; its fluctuation increased and took on a rhythmic character. The periodicity of E fluctuations and stomach contractions was disturbed. A delayed stomech secretion was noted. I in doses of 0.5-1 mg/kg, and II in doses of 0.3-0.5 mg/kg changed the periodicity of E as well as the stomach contractions. A considerable lowering of E and the presence of small fluctuations was noted. The stomach secretions were observed for 10-65 minutes. The author notes that the lowering of E preceeded the appearance of free HCl. There was no strict proportionality between the stomach acidity and its electrical activity. I in doses of 10-20 mg/kg and II in 5-10 mg/kg produced a prolonged inhibition in secretion and with it the rise in E. Thus,

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KAZACHKOVA,T. I.	
USSR/Pharmacology. Toxicology. Analgesics U-3	
Abs Journ : Ref Zhur-Biol., No 7, 1958, 32873	
Author: Kazachkova T. I.Inst: Not givenTitle: Effect of Codeine and Dionin on the ElectricalActivity of the Gastric Mucous Membrane.	
Orig Pub : Tr. Turkm med. in-ta, 1955, No 5-6, 347-352	
Abstract : Codeine (1) and dionin (2) in optimal doses of 7.5 to 20 mg/kg induced the secretion of gastric juice, an effect earlier established in regard to morphine and heroin. 1 and II, differing from morphine and heroin did not prolong the latent period. Together with the increase in secretion a drop in the electropotential (EP) of the mu- cous membrane set in. The maximum drop in EP was observed at the beginning of the secretion and	
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NAME AND ADDRESS OF ADD

KAZACHKOVA, T.I.; KRYLOVA, M.N.

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Use of electrogastrography in pharmacology. Farm. toks. 24 no.3: 372-376 My-Je '61. (MIRA 15:1)

1. Kafedry farmakologii ^Turkmenskogo meditsinskogo instituta. (ELECTROGASTROGRAPHY) (PHAHMACOLOGY)

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TITLE	The Problems of the Atand	nergetics as Discussed at the 5th
PERIODICAL	Issued: 1 / 1057 1, fasc.5	, 148-151 (1956)
conferences dealt with a lectures deal velopment pro atomic power sources, the The lecture d gathered in t tricity works in the USSR. performed in attracted attracted	nce (17. to 23. June 1956) was ts of 24 countries. The Soviety minister for electric power were devoted to the problems of tomic power plants both planne t with the following problems grams of atomic energy in var plants from the point of view removal of radioactive residu elivered by the Soviet delega he course of two years of oper and on the basic features of In this connection above all connection with the equipment	s attended by about 2000 technicians t delegation was under the leadership plants, A.S.PAVLENKO. Two sectional of atomic energetics. Numerous lectures and under construction, and further The general description of the de-
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APPROVED	OR RELEASE: 46/13/2000	CIA-RDP86-00513R000721230001-5
AUTHOR	LEYPUNSKIY, A.I., BLOKHINTSEV, I	ARISTARKHOV, I.N., 86-6-,29 . O.D., PINKHASIK, M.S., STAVISSKIY, Jusia.
	STUHBUR, E.A., UKRAINTSEV, F.I.,	West Neutrons BP - 2.
TITLE		a bystrykh neytronakh BP-2-Russian) 2, Nr 6, pp 497-500 (U.S.S.R.)
PERIODICAL ABSTRACT	ا مخالف ما ا	he used for physical investigations
	with fast neutrons. At first oussed. The heat-separating e plutonium rods of 10 mm diam tonium rods there are similar ne which are made of poor ar ranium- and plutonium rods w an inner diameter of 130 mm. of an uranium layer (outer d (outer diameter 1000 mm). Th system and by an emergency s part of a screen which are 1 trol system also contains bo apparatus, and servofeeds. The ion if the prescribed or ass Girculating mercury is used mercury is then cooled in a	the active zone of the reactor BP-2 consist of eter and 130 mm length. Besides the plu- rly constructed rods in the active zo- anium. Altogether there are 108 u- hich are mounted in a steel tube with The reflector of the reactor consists iameter 700 mm) and a coper layer e reactor is controlled by a control ystem. The operating control organs are ocated near the active zone. The con- bron-ionization chambers, an electronic e mergency system enters into operat- umed power of the reactor is exceeded. for the system of heat conduction. This heat exchanger with water. The radiat-
0ard 1/2	a) a water layer of 300 mm t	thickness b) a cast iron layer of 400 mm

A. I., GALKOV, V. I., STAVISKIY, YU. Y., STUMBUR, E. A. and SHERMAN, L. Ye.

"Effective Cross-Section Measurements of Fast Neutron Radiation Capture."

paper to be presented at 2nd UN Intl.' Conf. on the peaceful use of Atomic Energy, Geneva, 1 - 13 Sept 58.

published- Doklady sovetskikh uchenykh; yadernaya fizika (Reports of Soviet Scientists; Nuclear Physics)Moscow, Atomizdat, 1959. 552pp. Vol. 1.

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Leypunikiy, '. J., Abrany, A. J., 'adrev'34'/34';-3-0AS A. T. <u>Buanterko, J. J.</u> , Dakov, f. L., 'adreve, Y. D., Bayaniker, A. T. Buanterko, J. J. Sauonever, J. L., Jaitser, J. L. Jaitko, Krekersor, B. Y., Kur Terior, B. J., Koristor, C. J., Koristor, P. J., M. A., Jairenkin, C. N., Cortesky, G. J., N. Mikristor, P. J.	uncurar i. A., estaor, M. I., Sherman, L. (o. Laverigations of the Physics of Santors bin feet Mutcons. I Laverigations of the Physics of Santors and Santy feet Santors (fauladorations of Taile Factory on by Strykh negticanal)	<pre>90 estatements have been carried out with fast reactors 910 estatements have been carried out with fast reactors Main Adminatration of the Use of Mollaw i bergs, at the statilute of this organization the fast-castron reactor 1955, and the fast-castron factor 1 followed in 1955 respectively. 91 followed in 1955 respectively. 91 followed in 1957 respectively. 92 for the fast of the fa</pre>	the steel tube	The active gone may be Jurrounded by 2 mobile chluids this consists of depised unmains and while 2 of cosper. An ad- ditional shifts can be further and the function of the with a dimension of the set west statement and the wave to 60 - 10 can with this recent interviews are be carried out of the spatial and functioning the mainton, of shifts the result are shown in a fits wave to (a, 0^{23} (a.f), 0^{23}	to the conversion factor the latity was detorized experimen- teally as accurate to 2:4 to 2:5. It was also calculated by mean of the multi-grup chapturation weeked in S_{a} -th spirati- multi (ff 1). The postcrotic computer was used that apprimental values for K_{a} is interface. For community the experimental values for K_{a} is interface. For community the spiration of Y_{a} is used to Y_{a} is Y_{a} in Y_{a} in Y_{a} is a postmant of the Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} is the observe of Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} is a postmant of the Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is the observe out of Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is the observe out of Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is the observe out of Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is the observe out of Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is Y_{a} in Y_{a} is Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} in Y_{a} is Y_{a} in Y	The Distribution of twirtness in Urbitis assertion and for the suprevious reactions for the equilibria assertion and for the suprevious pacture of the subress assertion and for the suprevious pacture of the subress the asymptotic length of diffusion determined experimentity. The asymptotic length of diffusion determined experimentity as theoretically anounds to 91 to 01 can the arrest manager of the suprevision of urbania 238 caused by fission reacture assounds of the suprevision of urbania 238 caused by the resonance structure Parthermore, the influence ascretized by the resonance structure for the suprevision upon the postial distribution of the sections in the structure the sub- diate subre the static constantion for the rough for the subre three its is amount with a noulfication of the subre three its is anount with a sublification of the subre three its is anount with a sublification of the subre three its is 0 dilled are forture. Contineed on abstract 7/55		•
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KAZACHKOVSKIY, O. D.

"Large-Scale Industrial Experiment of the Soviet Unionf for Seclection of the Most Economic Types of Atomic Power Stations,"

report distributed at the International Seminar on Peasseful Uses of Atomic Energy and the Youth, Aug 1958, Moscow.

published in Meischerpayemyy (The Inexhaustible) Moscow, Atomizdat, 1959. 149p.

This book contains several reports by leading Soviet scientists, specializing in the peaceful uses of atomic energy, at the international seminar on "Youth and Peaceful Use of Atomic Energy," held in August 1958, under the auspices of the Committee on Youth Organizations of the USSR.

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21 (9) AUTHORS: Andreyev, V. N., Kazachkovskiy, O. D., SOV/89-7-4-7/28 Krasnoyarov, N. V. TITLE: The Behavior of a Reactor With Temperature Auto-regulation PERIODICAL: Atomnaya energiya, 1959, Vol 7, Nr 4, pp 363-366 (USSR) ABSTRACT: An investigation of the physics of fast-neutron reactors indicates the following: The variations of the reactivity with increasing reactor power may be subdivided into comparatively rapid variations (which are essentially connected with the mechanical deformations of the heat-emitting elements and with the expansion of the coolant) and into slow variations (which are connected with the thermal dilatation of the elements of reactor construction). For some processes the power coefficient of reactivity may be subdivided into an instantaneous power coefficient p and a retarded power coefficient k with the average retardation time 7. Such a treatment is suited also for reactors with neutrons having medium and thermal energies. The coefficients p and k may be both positive and negative. The authors investigated the behavior of a reactor, which is connected only with the above-mentioned temperature effects. Card 1/4The neutrons were subdivided into two groups: instantaneous

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The Behavior of a Reactor With Temperature Auto- SOV/89-7-4-7/28 regulation

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neutrons (with the life-time zero) and retarded neutrons (with the life-time τ). When the reactor is stopped, the contribution of the retarded power effect decreases exponentially with time. The equation for the reactor kinetics, which corresponds to these conditions is the following:

$$\begin{split} \Psi(t) &= \frac{\beta}{\tau_{o}[\beta-g(t)]} \int_{-\infty}^{t} \Psi(t') \exp\left(-\frac{t-t'}{\tau_{o}}\right) dt', \left[g(t) < \beta\right] \\ g(t) &= g_{o} + p\Psi(t) + \frac{k}{\tau} \int_{-\infty}^{t} \Psi(t') \exp\left(-\frac{t-t'}{\tau}\right) dt' \end{split}$$

Here W(t) denotes the power of the reactor, $\dot{\varphi}(t)$ - reactivity, β - the effective contribution of the retarded neutrons, q_0 - the reactivity of the cooled reactor (with W(t) = 0).

This system of equations is reduced to a nonlinear differential equation for W(t) (or for $\rho(t)$), which, by the substitutions W(t) = x, $\Psi W(t) = y$ assumes the form

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The Behavior of a Reactor With Temperature Autor SOV/89-7-4-7/28 regulation

$$\frac{dy}{dx} = \frac{A_1 y^3 + A_2 y^2 x + A_3 y x^2 + A_4 x^3 + A_5 y^2 + A_6 y x + A_7 x^2}{A_8 y x^2 + A_9 y x}$$

Here A_1 to A_9 are constant coefficients which depend on k, p, V, τ_0 , β , ς_c . The authors investigated all 6 singular points of this equation. The most interesting were the points x = 0, y = 0, and $x = -\rho_0/(k + p)$; y = 0. The surroundings of the first singular point determine the character of the increase of reactor power from zero onwards, and the second singular point determines the behavior of the reactor in the power range near the steady power. In the neighborhood of the steady point the solutions of the above equation are more manifold: There are aperiodically steady and aperiodically nonsteady, oscillation-stable and oscillation-unstable solutions. In addition, there is a special type of stable solutions. The ranges within which the solutions enumerated exist are shown by a diagram. Also the behavior of the integral curves on the whole is investigated. The steady point is always

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The Behavior of a Reactor With Temperature Auto- 50V/89-7-4-7/28 regulation

stable. Three diagrams show characteristic cases of the behavior of the integral curves. The authors thank A. I. Leypunskiy for his interest in the present investigation. There are 4 figures and 7 references, 4 of which are Soviet.

SUBMITTED: January 8, 1959

Card 4/4

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KAZACHKOVSKTY, O.D.

[Research, experimental, and test reactors] Issledovatel'skie, eksperimental'nye i ispytatel'nye reaktory. Research, experimental and test reactors. Vienna, International Atomic Energy Agency, 1960. 56 p. (International Atomic Energy Agency. Review series, no.8) (MIRA 15:4) (Nuclear reactors)

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a en la stratue de la seconda de la secon 15 22873 s/089/61/010/005/001/015 21,4210 21.1910 B102/B214 26.2200 Blokhin, G. Ye., Blokhintsev, D. I., Blyumkina, Yu. A., Bondarenko, I. I. Deryagin, B. N., Zaymovskiy, A. S., Zinov'yev, V. P., Kazaohkovskiy, O. D., Kim Khen Bon, Krasnoyarov, N. V., Leypunskiy, A. I., Malykh, V. A. Nazarov, P. M., Nikolayev, S. K., Stavisskiy, V. Ya., Ukraintsev, F. I., Frank, I. M., Shapiro, F. L., Yazvitskiy, Yu. S. AUTHORS : A pulsed fast reactor X TITLE: PERIODICAL: Atomnaya energiya, v. 10, no. 5, 1961, 437-446 TEXT: The present paper gives a description of the pulsed fast reactor of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) which became critical in June, 1960. This reactor, called N5P (IBR) reactor, rerves as pulsed fast neutron source (mean power $\otimes 1$ kw) for physical investigations, particularly for time-of-flight experiments. Its most distinguishing feature is the very small contribu-tion (~10-4) of the delayed neutrons in its normal operation; it is about Card 1/7 4 **计注闭 4 算**體 1201

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	neutrons results. The half width o frequency with which the pulses are 80 pulses/sec. Fig. 2 shows the co periodic change in the reactivity i	becomes overoritical a burst of prompt of these pulses is 36 µsec. The repeated can be varied between 8 and instruction of this reactor. The s brought about by the displacement of	
	to block is pressed in the form of a d rotated with a peripheral velocity it passes through the core center. the motion of the main block is 7.4 the auxiliary block is 0.4 %. The plutonium lumps in steel jackets. regulator, in this case a movable p	art of the reflector. It gives a	•
	operated rod is also a part of the electromagnetic suspension serve as	•10 ⁻⁵ - 1.3•10 ⁻⁵ sec ⁻¹ . The manually reflector. Two plutonium rods in soram. They can be separated from the Their separation causes a reactivity	
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 A pulsed fast reactor	22873 S/089/61/010/0 B102/B214	05/001/015	
decrease of 2-1.1 %; the rough reg 2.4 %, the manual regulator 0.1 %, The reactor possesses also a react intensive pulse. The control and functioning electronic arrangement chambers. The whole reactor is pl concrete walls allow complete prot important experimental arrangement conductor, a metal tube, 400 mm in in the second part in which a pres conductor connects a chain of soca distances of 70, 250, 500, 750, an experiments can be carried out. T conductor of 100 m length. The re- mental chamber in which four neutra available. There us such an experi- chamber. Various experiments were are described in the present paper Card 3/N 4	and the automatic regime ivity booster for the prod shield system is an automa with BF ₃ counters and ion aced in a room of size 10- ection from radiation. The consists of a 1000 m long diameter in the first par sure of 0.1 mm Hg is maint alled "intermediate pavilic dd 1000 m from the reactor) There is also an additional eactor chamber is joined to rom beams of up to 800 mm control out with the reac	ution of one dically hization 10.7 m whose he most g neutron rt and 800 mm tained. This ons" (at) in which 1 neutron o an experi- diameter are e the reactor ctor and they	
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1	• •	assemblies and slowly moving main block for the determination of the most important parameters of the reactor; experiments with a core assembly (unmoved), experiments with rotating (5000 rpm) main block and a Ra- α -Be source in the core for the investigation of the effect of the multiplica- tion factor, etc. The most important results are represented graphically For example, Fig. 8 shows the dependence of the half width 0 of a pulse of the reactivity; the dashed line holds for the quesistationary case, the dot-dash line for the onse of $\Omega = K(\tau/\alpha)^{1/3}v^{-2/3}$, where v is the velocity of motion of the (rotating) main block; in the quesistationary case	. X	
		$\Theta = 24\epsilon_m/\alpha v^2$, where ϵ_m is the reactivity at the maximal multiplication factor; $\epsilon = \epsilon_m - \alpha x^2$, where x is the displacement of the main block. The	• •	₽
		reactor has been actually used for the measurement of the total, scatteri capture, and fission cross sections by the time-of-flight method. Furthe experiments will be carried out with a view to obtaining increase of powe and decrease of the pulse duration. There are 15 figures and 3 reference 2 Soviet-bloo and 1 non-Soviet-bloc. The reference to the English-langua publication reads as follows: J. Orndorf, Nucl. Sci. and Engng, 2, No. 4, 450 (19	r r 8:	
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AUTHORS :	Leypunskiy, A. N., Ka	azachkovskiy, O. D., Pinkhasik, M. S.		
TITLE:	The future of fast re	eactors		
PERIODICAL:	Atomnaya energiya, v	. 11, no. 4, 1961, 370 - 378		
with fast rea main problems of those prod however, stil greater the e be as high as raises the co reduced by in fuel elements these matters (coolant: Na	actors, involves series a is to find a good cool duced and used on an in energy intensity the su- spossible. This requi- bost of chemical reproce- ncreasing the burn-up is a for this purpose pre- a are studied on the res a, maximum thermal pow	onversion ratio, which is only possible us technical difficulties. One of the olant. At present, sodium is the best ndustrial scale. Economic problems are, th a reactor of a given power the maller its size, fuel enrichment should irement causes cooling problems and essing. These disadvantages can be fraction. The production of suitable sents a further problem. In the USSR search engineering reactor $\mathbf{5P-5}$ (BR-5) er: 5000 kw, fast neutron flux: development of fast reactors. This		

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The future of fast reactors

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reactor is designed for the study of: (1) heat transfer problems with radioactive sodium as coolant, (2) tests of specimens and prototype fuel elements, (3) the kinetics of fast reactors with high energy intensity, (4) materials under fast neutron fluxes and nuclear physics under these conditions. Plutonium oxide as a fuel has shown aeveral advantages compared with metallic plutonium. The reactor core consists of 80 rod assemblies (stainless steel tubes filled with FuO₂), additional assemblies

of rods of natural uranium and special assemblies with various samples exposed to fast neutron irradiation. The core itself has a cylindrical shape (280 mm high, 280 mm wide). Nickel was chosen as the reflector material. The maximum heat of 220 kw liberated in the reflector was carried off by forced draft air. The core was cooled by sodium flowing at a maximum speed of 5 m/sec (outlet temperature $\sim 500^{\circ}$ C); in the second circuit, a eutectic fusion Na+K was used. In both circuits a total quantity of ~ 5 m³ of liquid metal circulated at a rate of 250 m³/hr (circulation period ~ 30 sec). One loop of the second circuit was cooled by air, the other incorporated a steam generator. The reactor was started in summer of 1958 (without coolant); in January 1959, the critical state

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The future of fast reactors

in the sodium-filled system was attained. Operation commenced in the summer of 1939 (maximum power 5000 kw). Sodium proved to be a very good coolant, better than the Na-K alloy. With the aid of cold traps the oxide concentration in the coolant could be kept at $N(1-3) \cdot 10^{-3}\%$. By June 1961, a maximum burn-up fraction of more than 4% was reached. The integral fast-neutron flux exceeded $2 \cdot 10^{22}$ n/cm² at that time. No Pu impurities were detected in the cooling system. The advantages of the ceramic fuel (oxide) were confirmed. Stability and safety tests were also made. All experiments indicate that the first future task will be to solve the question of costs in cooperation with industry. The performance of the BR-5 reactor was nearly the same as that of a power reactor. The most important parameters of the BR-5 reactor are compared with those of a 750-Mw fast reactor: Energy intensity 360 (600) kw/liter; coolant temperature at the outlet from the reactor: 500 (550) °C; burn-up fraction >4 (05) %. Since fusion reactors have not yet been achieved, fast reactors are the most promising type for future development in view of their high breeding ratio. For fuel reprocessing, pyrochemical or electrochemical methods should be used. There are 4 figures, 3 tables, and 5 references: 4 Soviet and 1 non-Soviet. The latter reads as

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The future of fast reactors follows: Directory of Nuclear Reactors, Vol. VI, IAEA, Vienna, 1959. SUBMITTED: July 17, 1961

Data of USSR Reactors

	Thermal po	wer reactors	Fast power reactors
	Beloyarsk	Novo-Voronezh	Projected reactor (USSR)
Thermal power, Mw fuel fuel concentration in the core, g/liter enrichment, % coolant energy intensity, kw/liter specific power, kw/kg	285 y ²³⁵ 5 1.3 water 1.2 250	710 $U^{2}35$ 34 1.5 water 43 1200	750 y ²³⁵ 625 21.6 Bodium 600
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APPROVED FOR RELEASE: 06/13/2000

KAZACHKOVSKIY, O.D. 13 12 211,06 . 5/089/61/011/006/002/014 30 B102/B138 Leypunskiy, A. I., Abramov, A. I., Aleksandrov, Yu. A., Anikin, G. V., Bondarenko, I. I., Guseynov, A. G., Ivanov, V. I., <u>Kazachkovskiy, O. D.</u>, Kuznetnov, V. F., Kuz'minov, J. D., Morozov, V. N., Nikolayev, M. N., Sal'nikov, O. A., Smirenkin, G. N., Soldatov, A. S., Usachev, L. N., Yutkin, M. G. 21.1000 AUTHORS: Investigation of the oP-5 (BR-5) fast reactor (spatial and energy distributions of neutrons) TITLE: PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 498 - 505 1 TEXT: The fast research reactor BR-5 and its experimental equipment is described in brief and some of its neutron spectra are given and discussed, The following data are given: fuel - plutonium oxide; coolant - Bodium; reflector - thin layer of natural uranium plus thick layer of nickel; power - 5000 kw. The reactor has many vertical and horizontal holes for power - 5000 kw. The reactor has many version and horizon and increase in the second and physical studies and is well supplied with experimental equipment. Leypunskiy gave a detailed description of the BR-5 reactor at X Card 1/0 3

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71:05 S/089/61/011/006/002/014 Investigation of the B102/B138	
 drop in neutron energy in the Ni reflector was determined, and the activity caused by resonance neutrons $(E_n = 4.9 \text{ ev})$. The fast neutron flux $(E_n > 1.4 \text{ Nev})$ in the core center was found to be $(2.4 \pm 0.2) \cdot 10^{14}$, and total flux was $(8.2 \pm 0.3) \cdot 10^{14}$. Experimental results were verified by energy-group calculations (18 groups). Good agreement between theory and experiment was also found for the channel spectra. The authors thank D. S. Pinkhasik, N. N. Aristarkhov, and the reactor personnel for assistance. There are 10 figures, 2 tables, and 2 Soviet references.	
SUBMITTED: August 17, 1961	
Table 1. Reaction cross sections in the core center.	
Legend: (1) Reaction; (2) experiment; (3) d calculated, given in barns.	
Fig. 7 Neutron transmission spectrum (n-hexans) for the horizontal channel B-J.	X
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s/089/62/012/003/006/013 21. 1000 B102/B108 26.2230 Kazachkovskiy, O. D. AUTHOR: Thermal shocks at the fuel-element jackets TITLE: PERIODICAL: Atomnaye energiya, v. 12, no. 3, 1962, 230 - 235 TEXT: It is theoretically studied inhowfar heat shocks at the jacket walls of fuel rods can be dangerous. Such shocks may arise in the regions of the coolant outflow after an emergency shutdown of a reactor. It is also studied how danger depends on the coefficient k₂ of non-uniform heat release along the rod axis. The calculations are carried out with the following simplifying assumptions: (1) Uni-Z form heat release, before shutdown, k = 1; (2) negligible heat capacity of the jacket; (3) thermal conductivity of fuel rod: inſ⊥î finite along x, very small slong z; (4) no temperature jumps at the F-S and S-L boundaries; coolant jacket fuel (5) at the moment of reacter shutdown (t=0) heat release shoud immediately be zero; (6) Card 1/3

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s/089/62/012/003/006/013 B102/B108 Thermal shocks at the fuel-element jackets the coolant flow rate v should be high. The variation of temperature drop with time in S after the shutdown is described by $\frac{\partial^2 T}{\partial z \partial t} + \frac{\lambda}{C_F \delta_F \delta_S} \frac{\partial t}{\partial z} + \frac{\lambda}{v C_L \delta_L \delta_S} \frac{\partial T}{\partial t} = 0.$ (5); the initial condition (t=0) is $q\delta_F dz = \lambda(T_0/\delta_S)dz$; $T_0 = q\delta_F\delta_S/\lambda$, is the initial temperature drop at the jacket. The boundary condition (z=0) is $dQ\delta_{F}dz = -\lambda \frac{T}{\delta_{a}}dzdt$, or, $T=T_{o}exp(-\lambda t/C_{F}\delta_{F}\delta_{S})$. The δ denote the thicknesses of F, S, and L; $C_{\mathbf{F}}$ and $C_{\mathbf{L}}$ are the specific heats, λ is the thermal conductivity of S, $T_{F}=T_{F}(z,t)$, $T_{L}=T_{L}(z,t)$, $T_{L}(0,t)=0$, $T = T_{F}-T_{L}$, $Q = C_{F}T_{F}$. hyperbolic differential (5) equation is solved in the dimensionless variables (12) (10) Crorbs $z \equiv \zeta$ VCLOLOS so that (13) Card 2/3

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BAGDASAROV, Yu.Ye.; KAZACHKOVSKIY, O.D.

Calculation of the nonstationary temperature field in the reactor channel and thermoelastic stresses in a fuel element can. Atom. energ. 13 no.3:241-249 S '62. (MIRA 15:9) (Nuclear reactors)

APPROVED FOR RELEASE: 06/13/2000

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AUTHOR:	Kazachkovskiy O.D. and I	ytkin V.B.		
TITLE :	The role of plutanium in	the development of nuclear ene	rgetics —	
PERIODICAL:	Akademiya nauk SSSR. Ver	stnik, no. 6, 1962, 41-49	•	
plutonium t not enough will have t breeding of process the properties worse, which	plans of nuclear energetic preeding and the use of it for future demands, there to be used. 'Various ways of furanium-233 from thorium rough plutonium breeding as	oh is a review which analyzes th os, mainly the different possibi as a fuel. The amount of urani fore uranium-238 and maybe even of plutonium breeding are descri mixed with uranium-235 and a tw re described. The physico-chemi with those of uranium and are f harder material to handle. Ther	um-235 is thorium bed. The o-step cal cound to be	
figures.			•	
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APPROVED FOR RELEASE: 06/13/2000

5/089/63/014/002/007/019 B102/B186 Belancva, T. S., Kazachkovskiy, O. D. AUTHORS : Influence of nucleon parity effect on the radiative capture TITLE: cross section Atomnaya energiya, v. 14, no. 2, 1963, 185 - 192 PERIODICAL: TEXT: Hitherto the radiative capture cross sections have been measured mainly for even-even and odd-even nuclei. The present authors have now measured it also for many even-odd nuclei, in order to make comparisons with other parity types and draw conclusions as to the effect of parity. The capture cross sections of even-odd nuclei $(\sigma_c(e-o))$ were determined by subtracting the capture cross sections of the even-even isotopes $(\sigma_{c}(e-e))$ from the absorption cross section of the natural isotopic composition $\sigma_{\mathbf{A}}$. Since in the natural isotopic composition the even-odd admixture amounts to only a few % the errors are considerable. In all investigated isotopes $\sigma_c(e-o)) \gg \sigma_c(e-e)$. From a comparison of the experimental data of 130 neighboring even-even and odd-even isotopes it was found Card 1/3

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Influence of nucleon parity ...

s/089/63/014/002/007/019 B102/B186

that in 60% of the cases $\sigma_c(o-e) > \sigma_c(e-e)$, in 22% cases $\sigma_c(o-e) = \sigma_c(e-e)$, and in 18% cases $\sigma_c(o-e) < \sigma_c(e-e)$. 56 out of 60 cases of even-odd and oddeven pairs had $\sigma_c(e-o) > \sigma_c(o-e)$. The proportionality factor of this cross section depends somewhat on the neutron energy. The experimental data were obtained for $E_n = 24$, 150, 175, 220, and 830 kev. Of the different factors affecting σ_c the most important is the excitation energy on neutron capture which determines the level density ϱ . Two possibilities are considered here: (a) ϱ determines the true excitation energy which is equal to the sum of the binding energy E_b and the kinetic energy E_k of the neutron; (b) the excitation energy is reckoned not from the ground state but from the Hurwitz-Bethe level E_c so that $\varrho = \varrho(E_b + E_k - E_c)$. The effects of the different factors can be represented as follows:

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Influence of nuc	leon parity		B102/B1	86	02/007/01	
	•	•	(e-e)	(o-e)	(e-o)	
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KAZACHKOVSKIY, O. D.; ARISTARKHOV, N. N.

"Five-year operation experience on the fast reactor."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

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ACCESSION NR: AP4049534	5/0089/64/017 /005/0040/0045	, a
<u>rtikhasik, M. S.7 Arasnoyarov, N</u>	• V.; Poydo, M. S.	E.
TITLE: Socium cooled tast react	ors / /	
SOURCE: Atomnava energina, v. 1	2. RO. 5. (MM.)	-
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	m, $H = 1.06$ m), the maximum sodium speed is 10 m/sec, the thickness of the breeder zones on the periphery and on the end is 60 cm. The construction permits the active zone size to be varied and the infferent trace interprets. A set of the varied and the	
	and breeder zones is such as to produce a conversion ratio with.	
	ments with a reactivity margin of 1 4. sources	•
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Internet internet internet in a second s KAZACHKOVSKIY, O.D. Conference on Fast Reactors in Detroit. Atom. energ. 19 no.5: (MIRA 18:12) 476-480 N 165. SOUGHANSSON 日本出意的

APPROVED FOR RELEASE: 06/13/2000

ACC NR: AP7007582	SOURCE CODE: UR/0089/66/021/002/0084/0092
AUTHOR: Leypunskiy, A. I.; Kazachkovski: Kromov, V. V.; Shmelev, A. N.; Sukhoruchi ORG: none	7. O. D.; Shikhov, S. B.; Yurova, L. N.; cin, V. K.
TITLE: Use of nonuranium dilutors of plu SOURCE: Atomnaya energiya, v. 21, no. 2, TOPIC TAGS: breeder reactor, fast reactor	1966, 84-92
SUB CODE: 18 ABSTRACT: The physical characteristics cal and annular active zones have been s	of fast breeder reactors with cylindri-
within the material of the breeder zone. results of theoretical calculations. dis	nts located in a heterogeneous manner The paper presents in tabular form the cusses the influence of Pu240 and Pu241
describes the change in reactivity durin the results of investigation of the sodi- pler temperature coefficient. An analys	g the irrediation process, and shows um temperature coefficient and the Dop-
or nonuranium dilutors of plutonium in 1. volume) results in annular active zones the breeder composition zones having peop	arge fast reactors (with a large active and zones with fuel elements within licentaics which make them more econo-
Mical than large cylindrical active zones A. M. Kuz'min, M. F. Troyanov, and V. M. research and O. N. Gerasimovaya for helpi	. The authors thank I. S. Slesarev, Murogov for their part in carrying out the ng to compile information in the article.
Orig. art. has: 2 figures, 3 formulas ar	d 5 tables. [JPRS: 39,417]
Card 1/1	UDC: 621.039.526: 621.039.543.466

S/183/61/000/001/004/006 B101/B205

AUTHORS:

 \mathbf{a}^{2}

Pakshver, A. B., Kazachkova, T. M.

TITLE:

New method of characterizing the structure of polyacryl nitrile

fiber

PERIODICAL: Khimicheskiye volokna, no. 1, 1961, 22-24

TEXT: A rapid laboratory method has been worked out for determining the structure of polyacryl nitrile fiber (PAN), i.e., the presence of microperes, loose sites, and other inhomogeneities which affect the behavior of the fiber during treatment and dyeing. Laboratory tests have hitherto been made by simulating the manufacturing process. As the number of inhomogeneities has an effect on diffusion, calorimetric measurement of the amount of heat liberated by PAN swelling in dimethyl formamide within the first five minutes has been suggested. A figure shows that the liberation of heat (0.4-7.2 cal/g after 1 min; 0.7-8.7 cal/g after 2 min; 1.8-13.7 cal/g after 5 min) depends on the method of PAN synthesis and its preliminary treatment. The liberated heat approaches equilibrium: $Q_0 = 12.5$ cal/g (determined in an adiabatic calorimeter). The coefficient Q_1/Q_0 ($Q_1 =$ first minute) varied

Card 1/2

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New method of ...

S/183/61/000/001/004/006 B101/B205

from 0.080 to 0.376, depending on the degree of homogeneity of PAN. In addition, the structural density was determined from the specific gravity. / Freshly precipitated PAN fiber had a specific gravity of 1.626, which was / increased to 1.794 by drawing and oiling. Treatment with water reduced the specific gravity, whereby the micropores were enlarged and new ones were formed. There are 1 figure, 2 tables, and 12 Soviet-bloc references.

ASSOCIATION: VNIISV (All-Union Scientific Research Institute of Synthetic Fiber)

Card 2/2

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L 38203-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k) IJP(a) JIG. SOURCE CODE: UR/0141/66/009/003/0620/0621 ACC NR: AP6022086 AUTHOR: Kazachok, V. S. ORG: All-Union Scientific-Research Institute of Physico-Technical and Radio-Technical Measurements (Vsesoyuznyy nauchno-issledovatel'skiy institut fisiko-tekhnicheskikh 1 radio-tekhnicheskikh izmereniy) TITLE: Ramsey-type radiation line in a spaced-resonators maser SOURCE: IVIZ. Radiofizika, v. 9, no. 3, 1966, 620-621 TOPIC TAGS: gaseous state maser, ammonia maser ABSTRACT: F. Holuj et al. described their N¹⁴H₂ (j = 3, k = 3)-line maser in which two resonators are phase-coupled by means of an auxiliary resonator. The present article describes a simpler maser in which the resonators are field-coupled through c their open radiating ends (see Fig. 1). Here: 400 mm 480 mm-100 m 1 - beam source; 2 - sorting system; 3 brass resonator, 4 - pyroceramic resonator, 5 - subcritical-frequency waveguide, 6 power-output waveguide. Both resonators are designed for the Eoio-mode; an NieH, line (j = 3, k = 3) was investigated. The effective Q of the Ransey-line central maximum was found to be 5 times as high as the Fig. 1. Two-series-resonator masor UDC: 621.378.33 Cord 1/2 L 38203-66 APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721230001 Q-factor of the radiation line in a single-resonator maser. Orig. art. [03] SUEM DATE: 28Sep65 / ORIG REF: 002 / OTH REF: 003/ 046 ATD PRESSIS SUB CODE: 20 / 2/2

CIA-RDP86-00513R000721230001-5

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KAZACHOK, V.S.

Electrodynamic method of slowing down molecules. Zhur. tekh. fiz. 35 no.6.1145-1149 Je '65. (MIRA 18:7)



APPROVED FOR RELEASE: 06/13/2000

RAKHUBA, K.; LINKEVICH, I.; PROF'KO, S.; KAZACHONAK, V., redaktor; STSYAPANOVA, H., tekhnicheskiy redaktor [Minsk Province agricultural exhibition of 1954] Minskaia ablasnaia sel'skahaspadarchaia vystauka 1954 goda. Winsk, Dšiarzh, vyd-va BSSR, 1955. 133 p. (MIR& 10:1) (MIR& 10:1) (Minsk--Agricultural exhibitions)

APPROVED FOR RELEASE: 06/13/2000



AUTHON: Kazachov, A.I., Kurochkin, F.I., Engineers and 104-2-14/38 Marchenko, E.A., Candidate of Technical Sciences.

TITLE: On the conditions of operation of shunting circuit breakers in series compensating installations. (Ob usloviyakh raboty shuntiruyushchikh vyklyuchateley v ustanovkakh prodolnoy kompensatsii)

PERIODICAL: "<u>Elektricheskie Stantsii</u>" (Power Stations), 1957, Vol. 28, No.2, pp. 56 - 60 (U.S.S.R.)

.

ABSTRACT: Series capacitors in transmission lines have dischargers to protect them from overvoltages when short circuits occur on the lines. The capacitors are provided with a shunting circuit breaker intended for operational switching and for disconnecting the installation for repair or examination. The operating conditions of these circuit breakers have certain special features. The class of insulation can be lower than that of the rest of the system if the breakers are installed on an insulated platform. The rupturing capacity is not very great as the greatest current to be disconnected is the line current in normal overload conditions with a low rate of rise of restriking voltage because of the large capacitance in parallel with the contacts. There are certain additional requirements in that the breakers must withstand the thermal

Card 1/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721230001-5" On the conditions of operation of shunting circuit breakers in series compensating installations. (Cont.) 104-2-14/38

and dynamic effects of the discharge currents. However, tests carried out with circuit breakers types BBH-110 and BM-35 on a 220 kV installation show that no damage was done to current carrying parts by electro-dynamic forces after multiple passage of discharge currents the amplitude of which was much greater than the normal permissible maximum short circuit current. Tests that were carried out are described and the results are given in the form of oscillograms. It was found that the de-ion grids took no part in the process of arc suppression and may be removed whilst the contact system must be made in such a way that rigidly mounted parts are not in the way of the explosion wave. The contact system was accordingly reconstructed and the way in which this was done is illustrated. Because of removal of potential screens the discharge voltage between busings and tank was reduced by 10 - 15 kV.

Apart from the danger of dynamic effects of the explosion wave on the contact system the quantity of energy dissipated in the breaker after a large number of repeated discharges of the condenser battery may greatly exceed the energy dissipated during the heaviest short circuit and so the content of

Card 2/3

On the conditions of operation of shunting circuit breakers in series compensating installations. (Cont.) 104-2-14/38

oil deterioration products is high; the oil had to be changed after shunting a few times a 220 kV condenser installation with a line current of 600 A equal to the rated current of the breaker. Contamination of the oil was insignificant at currents up to 450 A. This contamination can be reduced by increasing the speed of separation of the contacts and increasing the damping resistances in the breaker circuits. It would be advisable to develop circuit breakers of light construction specially intended for operation in series capacitor installations. Circuit breaker BM-35 cannot be used without reconstruction of its contact system.

There are 7 figures and 3 references.

AVAILABLE:

Card 3/3

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721230001-5"

Kazach	NK, N. AID P - 2208
Subject	: USSR/Aerodynamics
Card 1/1	Pub. 135 - 9/18
Authors	: Kazachuk, N., Eng. Col. and Demchev, I., Lt. Col.
Ţitle	: The use of the photo machine gui in all gammers
Periodical	: Vest. vozd. flota, 6, 48-50, Je 1955
Abstract	: The authors discuss the organization of air gunnery training and give some examples of training in units. Names are mentioned.
Institution	: None
Submitted	: No date
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VOROB'YEV, L.; BELAN, S.; KAZACHUK, S.

Kasakhstan pledges a billion poods of grain. Makh.-elev. prom. 24 (MIRA 11:5) no.4:2-3 Ap 158.

- 1. Ministerstvo khleboproduktov Kazakhskov SSR (for Vorob'yev).
- 2. Direktor Shortandinskogo elevatora, Kaxakhstan (for Belan).
- 3. Upravleniye khleboproduktor Karagandinskoy oblasti (for Kazachuk).

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(Kazakhstan-Grain trade)



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METHONY'S PROPERTY. 5. ru. KISELEVA, A.F., doktor med.neuk; KAZACHUK, Yu.S., kand.med.neuk Pathogenesis of decompensation of the hypertrophic heart in hypertension. Vrach.delo no.10:1051-1054 0 '57. (MIRA 10:12) 1. Kafedra patologicheskoy anatomii (zav. - zasl.deyat.nauki, prof. Ye.I.Cheyka) Kiyevskogo meditsinskogo instituta. (HYPERTENSION) (HEART FAILURE)

APPROVED FOR RELEASE: 06/13/2000



ZADAYEV

5.

Country : USSR К Category: Forestry. Forest Management. Abs Jour: RZhBiol., No 11, 1958, No 48753 Author : Kazadayev, S.A. Inst : Voronezh State Forest Preserve Title : Experiment with Mineral Top Pressing of the Pine in a 20-Year Old Plantation. Orig Pub: Tr Voronezhsk. gos. zapovednika, 1957, vyp. 7, 93-96 Abstract: Experiments were conducted in the pure, 20-year old pine forest on light-brown sandy soil having a humus layer of 10-15 cm. The type of conditions at the place of growth are those of a new pine forest. Fertilizers were applied by means of even broadcasting : 1/2 Card

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USSR / Plant Diseases. Forest Trees. 0-1 Abs Jour: Ref Zhur-Biol., 1958, No 17, 77992 Author : Kazadavav, S. A. Inst : Not given : Infection of Pine Forests of the Voronezh National Title Forest with Root Fungus and Experiments for Their Protection From Desiccation. Orig Pub: Tr. Voronezhsk. gos. zapovedinka, 1957, vyp. 7, 133-145 Abstract: Examinations conducted in 1950-1954 show that the most infected trees are 20-50-year plantings, but the 70-80-year-olds are more intensively dried. The disease represents a serious threat, since Card 1/3

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CIA-RDP86-00513R000721230001-5

USSR / Plant Diseases. Forest Trees. 0-1 Abs Jour: Ref Zhur-Biol., 1958, No 17, 77992

Abstract: 90% of the localized regions - appeared in and affecting only 10% - are dying or have died. Prolonged utilization of tree areas under plowland impairs the structure of the forest soils, and subsequent plantings of pines fall into unfavorable conditions: the dying off of the tree roots favors the infection of root fungus. Fomitopsis annosa (Fr) causes a decrease in tree growth, which then brings on secondary damages. In plantings weakened by unfavorable influences, dessication under the effect of root fungus is reinforced. Infected plantings are met independent of the contour, character and humidity of the soils. Tests conducted showed that raking of the forest undergrowth, with subsequent removal, or leaving it the form of mounds, stops the appearance of new

Card 2/3

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APPROVED FOR RELEASE: 06/13/2000

KAZADAYEV, S.A.

CARDING STORY

Effect of supplementary mineral fertilizers on the quantity and dynamics of the litter of needles in Scotch pine plantations. Trudy Vor. gos. zap. no.13:147-164 '61. (MIRA 16:8)

(Voronezh Preserve--Pine--Fertilizers and manures) (Voronezh Preserve--Forest litter)

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USSR/Forestry	- Forest Economy.
Abs Jour :	Ref Zhur - Biol., No 3, 1958, 10592
	the water; this is of great practical significance for pines since they occasionally perish on sandy soils due to the lack of water. The influence of mineral fertili- zers on the tree's diameter growth has also been clarified. In plots to which N_{GR} had been added the diameter growth was 12.2% greater than in the control; it was 15.9% grea- ter when N and K were applied together and 29% greater when N was applied together with P or with K and Ca. Growth was as great on plots fertilized with N as on those which had received a full fertilization.
Card 2/2	

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G USSR / Zooparasitology. General Problems. Abs Jour: Ref Zhur-Biol., No 6, 1959, 24180. Author : Kazadayev, V. I. : Bashkir Affiliate, Geographical Society USR. : On the Problem of Parasitofauna of Tinca tinca Inst Title in the Reservoirs of Bashkiria. Orig Pub: Zap. Bashkirsk. fil. Geogr. o-va SSSR, 1957, vyp. 1, 163-170. Abstract: During parasitological dissection in 1952-1953 in two reservoirs of Bashkiria (Lake Urgun and Bel'skaya Staritsa) of 296 specimens of Tinca tinca (223 specimens from Bel'skaya Staritsa, 73 from Lake Urgun), 21 varieties of parasites were discovered. The parasitofauna of Tinca tinka of Bel'skaya Staritsa is richer (17 species) than that of Lake Urgun (13 species). In Bel'skaya

Card 1/2

USSR / Zooparasitology. General Problems.

Abs Tour: Ref Zhur-Biol., No 6, 1959, 24180. APPROVEDFOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721230001-5" Abstract: Staritsa predominate Trichodina domerguei (infection of 94.1%; average intensity of infection is 34.6 specimens per fish); Asymphylodora tincae (89.2%, average intensity 384 specimens), Neascus musculicola (83.4%) and Ergasilus sieboldi (76.3%, average intensity 25.2 specimens). In Lake Urgun in 1952, 100% infection with A. tincae (average intensity 458 specimens, and in 1953 - 95.8% and 114.5 specimens) was observed. The infection with Contraccecum in 1952 was 68 and in 1953 100%, with the average intensity of 44.8% and 294 specimens. -- L. P. Shuvalova.

Card 2/2

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USSR	
Abs Jour	: Ref Ehur - Biologiya, No 22, 1958, No 99542
Author Inst Title	: Kazadayev, V.I. : Bashkir Agricultural Institute : Parasitic Infestation of the Tench with Parasites in Relation to the Age of the Host and the Seasons of the Year
Orig Pub	: Tr.Bashkiisk.skh.in-ta,1957,8,No 2,301-312.
Abstract	: Tenches from 2 reservoirs of the Bashkir ASSR were in- vestigated during the summer and winter. An increase of infestation of the tench up to the age of 6 years was noted. Older fish were not investigated. The greatest infestation of the tenches was observed during the summer. The intensity of infestation decreased markedly towards the fall and it was only slightly lower in the winter than during the fallO.M.Bauer.

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 $\frac{112}{3} + \frac{1}{3} + \frac{$ AUTHORS: Krasnikov, N. Ye.; Kushakevich, S. A.; Tokmakov, P. Ya.; Kazadov, K. A.; Shilin, O. K.; Gritsenko, Yu. P.; Matveyev, G. I. ORG: none Adoption of <u>rolling</u> large round profiles from <u>titanium</u> alloys TITLE: Tsvetnyyc metally, no. 8, 1966, 77-80 SOURCE: TOPIC TAGS: titanium alloy, metal rolling, metal forming ABSTRACT: The rolling of large diameter (25 - 60 mm) titanium alloy stock was studied. Prior to rolling the specimens were heated for 10 min in an induction furnace up to a temperature of 1270--1370K, and for 5 min in a silit furnace at a temperature of 1270--1370K. A schematic of the rolling scheme is presented (see Fig. 1). The rolling margin was calculated after the formula of N. Ye. Krasnikov and N. P. Skryabin (Tsvetnyye metally, 1965, No. 4) $\Delta b = \frac{\Delta h \cdot B_0 \sqrt{\Delta h \cdot r}}{(H + h)^2} \times \left[1.7 - \frac{B_0 \sqrt{\Delta h \cdot r}}{(H + h)^2} \right],$ where Δh is the absolute compression, B₀ - width of zone before passage, H and h height of zone before and after passage respectively, and r - the radius of the working roller. It was found that the experimental data were in good agreement with Card 1/2 UDC: 669.295-422.1:622.771.2

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KAZADZHAN, L.B., inzh.; PROSKURYAKOVA, A.A.

Effect of phase transformations in electrical steel on the formation of discards because of ragged edges. Stal' 23 no.5:462-464 My '63. (MIRA 16:5)

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DRUZHININ, V.V.; KAZADZHAN, L.B.; PRASOVA, T.I. Dependence of additional losses for eddy currents on grain size in fine-grained electrical steel. Fiz. met. i talloved. 13 no.4:635-636 Ap 162. (MIRA 16:5) 1. Verkh-Isetskiy metallurgicheskiy zavod. (Steel--Electric properties) (Domain structure) 5

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DRUZHININ, V.V.; KAZADZHAN, L.B.

Comparing the magnetic characteristics of electrical steel measured on entire sheets and Epstein strips. Fiz. met. i metalloved. 13 no.4:639-640 Ap '62. (MIRA 16:5)

1. Verkh-Isetskiy metallurgicheskiy zavod. (Sheet metal---Magnetic properties)

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BERENYI, Denes, dr.; KAZAI, Lajos; SCHARBERT, Tibor; VATAI, Endre Tests on the decay scheme of Co⁵⁶. ATOPAI korl 6 no.3/4:101-103 D 164.

1. Editorial Board Member, "ATOIXI Kozlemenyek" (for Berenyi).

KAZAIMOV, V. H., LEMBERG, A. YE., Engineer

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Accelerating unloading of loose building materials from platform cars. Mekh. trud. rab 6 no. 6, 1952.

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AFANAS'YEV, V.A.; ITENBFRG, I.I.; KAZAIS, E.B.; SMELKOV, V.A.

Network for program interruption. Avtom. i prib. no.1: 40-43 Ja-Mr '65. (MIRA 18:8)

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VASIL'YEVA, A.V.; KAZAK, A.F.

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Experience in typhoid fever control. Zdrav. Turk. 3 no.6:33-35 K-D 159. (MIRA 13:5) N-D 159. (TURKMENISTAN-TYPHOID FEVER)



