CHIKIN, LA CHIKIN, LA.

SUBJECT AUTHOR USSR/MATHEMATICS/Theory of functions CIKIN L.A.

CARD 1/2 PG - 607

TITLE

PERIODICAL

On the stability of the boundary value problem of Riemann.

Doklady Akad. Nauk 111, 44-46 (1956) reviewed 2/1957

In the complex plane let be given a contour L and on it the functions G(t) and g(t). A piecewise analytic function  $\varphi(z)$  can be determined either from the boundary condition

 $\phi^{\dagger}(t) = G(t) \phi^{-}(t)g(t)$  on L<sub>o</sub>

(inhomogeneous case)

or from the boundary condition

$$\varphi^{+}(t) = G(t) \varphi^{-}(t)$$

on L

(homogeneous case).

The author assumes that  $L_o$  is an ordinary, smooth, closed curve which devides the plane into the inner part  $S_o^+$  and the outer part  $S_o^-$ , and investigates the stability of the homogeneous case at deformations of  $L_o$ . Here a deformation of  $L_o$  means a contour sequence  $\{L_n\}$  which converges to  $L_o$  (i.e. that the sequence of the surfaces  $S_n^+$  which are limited by the  $L_n$  convergent  $S_o^+$  as a kernel). Further it is assumed that all contours of the deformations  $\{L_n\}$ 

Doklady Akad. Nauk 111, 44-46 (1956)

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independent of n satisfy the conditions of Warchavski (Math.Z. 35, 322, 447, (1932)). The deformation  $\{\lambda_n\}$  is called an inner one if  $\lambda_n \in \mathbb{S}_0^+$  and an outer one if  $\Lambda_n \in S_0$ . Then the boundary value problem is considered for every inner contour  $\lambda_n$  and every outer contour  $\Lambda_n$ :

$$\psi_{n}^{+}(t) = G(t)\psi_{n}^{-}(t) \quad \text{on } \lambda_{n} \quad n=1,2,...$$

$$\psi_{n}^{+}(t) = G(t)\psi_{n}^{-}(t) \quad \text{on } \Lambda_{n} \quad n=1,2,...$$

The homogeneous problem is called stable if the sequences  $\{\psi_n(z)\}$  and  $\{\psi_n(z)\}$ in So and So converge uniformly to the common limit function which satisfies the homogeneous boundary value condition and which does not depend on the choice of the deformations  $\{\lambda_n\}$  and  $\{-\Lambda_n\}$  and of the kind of continuation of G(t) in the plane. It is stated that under the given assumptions on L the homogeneous problem is stable in the above sense if G(t) vanishes nowhere and satisfies the Hölder condition.

INSTITUTION: Molotov University, Rostow-Don.

5/044/60/100/009/008/021 C111/C222

16.3000

AUTHOR: Chikin, L.A.

TITLE: The Stability of the Riemannian Boundary Value Problem

PERIODICAL: Referativnyy zhurnal. Matematika, 1960, No.9, p.60,
Abstract No.10222. Uch.zap.Fiz.-matem.fak.Rostovsk.-n/D.unt,
1959, Vol.43, No.6, pp.119-126

TEXT: In the plane of the complex variable z let be given a simple closed curve L which divides the plane into the inner region S' and the outer region S. The homogeneous Riemannian boundary value problem consists in the determination of a piecewise analytic function O(z) the limit values of which satisfy the condition  $O^+(t) = O(t)O^-(t)$  on the curve L, where O(t) is a function given on L. The author investigates the stability of this problem with respect to the variations of the curve L. The curve L is approximated by the sequence of curves O(t) = O(t)O(t)O(t) which converges to L, where the sequence of the regions O(t)O(t)O(t)O(t) bounded by these curves converges to S as a kernel. Here, according to the author, only such deformations O(t)O(t)O(t)O(t) of the considered smooth curve L are admissible which consist of curves L which for all n satisfy the following conditions of Warschawski (Math. Card 1/3)

89038 \$/044/60/000/009/008/021 C111/C222

The Stability of the Riemannian Boundary Value Problem

Z., 1932, 35): 1) The ratio of the length a of every secant of  $L_n$  to the length G of the least arc corresponding to this secant is  $\geqslant c$ , where c>0 is a constant. 2)  $L_n$  has a continuously rotating tangent, where the angle  $\Theta_n(S)$  formed by the tangent and the axis OX satisfies the Hölder condition:  $|\Theta_n(S^n)-\Theta_n(S^n)| \leq A|S^n-S^n|^{\infty}$ , where A and  $\alpha$  are constants,  $0<\alpha<1$ .

The author uses the result of Warschawski on the convergence of a sequence of conformal mappings for obtaining the following theorem.

1. Let L be a smooth curve and let G(t) satisfy the Hölder condition and be different from zero on L. Let G(t) be continued in the whole complex z-plane so that the obtained function G(z) inside  $S^{+}$  and  $S^{-}$  (i.e. on every closed subset of these regions) satisfies the Hölder condition and on L it goes over continuously in G(t). Now any admissible deformation  $\{L_n\}$  of the curve L is considered; on the curves  $L_n$  the homogeneous Riemannian problem with the boundary coefficient G(z) is Card 2/3

89038 \$/044/60/000/009/008/021 C111/C222

The Stability of the Riemannian Boundary Value Problem

solved. Let  $X_n(z)$  be the canonical functions of the solution of the Riemannian problem for the curve  $L_n$ . Then: Inside the regions  $S^+$  and  $S^-$  the  $X_n(z)$  converge uniformly to the canonical function of the homogeneous Riemannian problem for the curve L. Finally the stability of the inhomogeneous Riemannian problem is treated briefly.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 3/3

CRIKIN,	L. A.
	Fedor Dmitrievich Gakhov; on his 50th birthday. Uch. zap. RGU 43 ho.6:3-6 59. (MIRA 13:10) (Gakhov, Fedor Dmitrievich, 1906-)

### "APPROVED FOR RELEASE: 06/12/2000

#### CIA-RDP86-00513R000308810014-6

L 08989-67

ACC NRI AR6027481

SOURCE CODE: UR/0044/66/000/005/V046/V046

AUTHOR: Chikin, L. A.

8

TITLE: A universal assembly program for the "Minsk 12" computer and its utilization in the automatization of certain programming processes

SOURCE: Ref. zh. Matematika, Abs. 5V326

REF SOURCE: Sb. Vopr. vychisl. matem. i vychisl. tekhn. Rostov-na-Donu, Rostovsk. un-t, 1965, 89-96

TOPIC TAGS: computer programming, computer program, automatic computer programming

ABSTRACT: A universal assembly program for the "Minsk-12" computer is described. This program contains a number of capabilities in addition to the usual assembly program functions. These capabilities make it possible to introduce modifications into the programs undergoing execution by deleting or including individual codes and groups, by rearranging the program blocks, and by shifting the whole program or its parts in the memory. The universal assembly program makes it possible to process a long program by parts or to process a similar program repeatedly. The form of information required for the universal assembly program operation is described. [Translation of abstract] I. Zusman

SUB CODE: 09

Cord /// net

UDC: 518.5:681.142

GOLDOVT, Yu.D.; URVANTSEV, I.F.; CHIKIN, O.I.; ZAYTSEVA, T., red. izd-va; VOLOKHANOVICH, I., tokhm. red.

[Medicinal preparations; brief annotations] Lekarstvennye preparaty; kratkie annotatsii. Izd.2., perer. i dop. Pod red.I.F.Urvantseva. Minsk, Izd-vo Akad. nauk BSSR, 1961. 442 p. (MIRA 14:11)

l. White Russia. Ministerstvo zdravookhraneniia, (PHARMACOPOEIAS)

CHIKIN, Lev Aleksandrovich; LITVER, Ye.L., dots., otv. red.;
KOVALENKO, Yu.V., red.; PAVLICHENKO, M.I., tekhn. red.

[Programming for electronic digital computers] Programmirovanie dlia elektronnykh tsifrovykh vychislitel'nykh mashin; spravochno-metodicheskoe posobie. Rostov-na-Donu, Izd-vo Rostovskogo univ., 1963. 64 p.

(MIRA 16:11)

(Programming (Electronic computers))

BELYAKOV, V.D.; KIROV, S.K.; GORELIKOV, I.A.; DEGTYAREV, A.A.; CHIKIN, M.N.

Dependence of the immunological effectiveness of typhoid and paratyphoid complete antigens on their quality and dosage.

Zhur. mikrobiol., epid. i immun. 43 no. 1:37-41 Ja \*66

(MIRA 19:1)

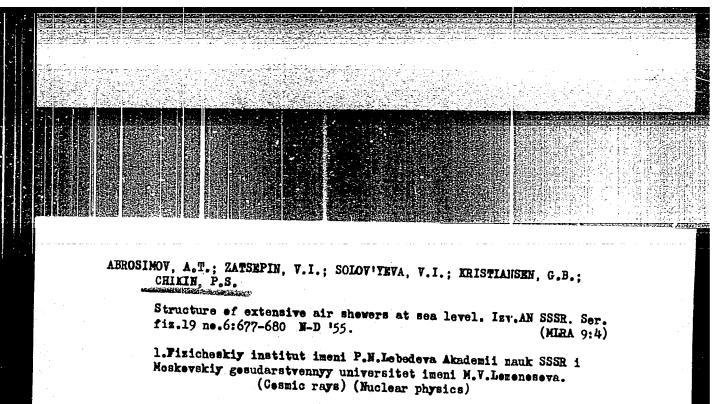
1. Submitted April 5, 1965.

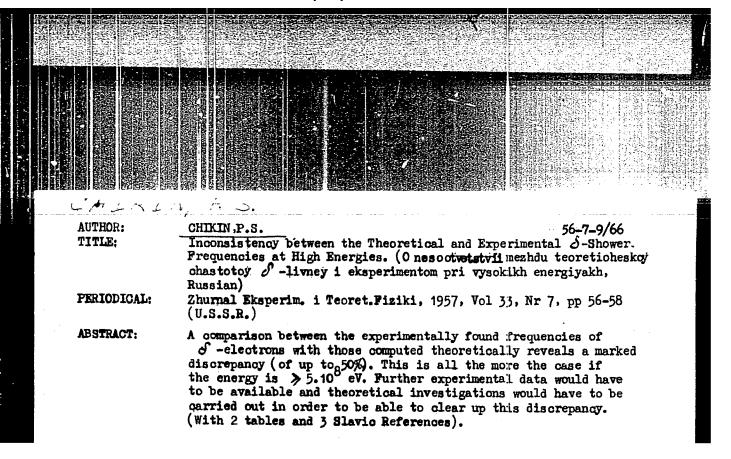
GOLDOVT, Yu.D.; URVANTSEV, I.F.; CHIKIN, O.I.; ZAYTSEVA, T., red. izd-va; VOLOKHANOVICH, I., tekhn. red.

[Drugs] Lekarstvennye preparaty. Izd.3., perer. i dop. Pod red. I.F.Urvantseva. Minsk, Izd-vo AN BSSR, 1963. 548 p. (MIRA 17:1)

1. White Russia. Ministerstvo zdravookhraneniya.

\*





CHIKIN, P.S.

AUTHORS:

Ivanovskaya, I. A., Sarycheva, L. I., Chikin, P. S. 56-1-8,55

TITLE:

Cloud Chamber Investigation of the Nuclear-Active Component of Wide Atmospheric Showers (Izucheniye yaderno-aktivnoy komponenty shirokikh atmosfernykh livney pri pomoshchi kamery Vil'sona).

PERIODICAL:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 1, pp. 45-52 (USSR).

ABSTRACT:

By means of a cloud chamber with seven lead plates the authors investigated the nuclear interactions which are caused by the particles of wide atmospheric showers. In this context a particle is defined as nuclear-active if it is creates in the lead plates of the cloud chamber a shower satisfying certain conditions specified here. At the beginning the spatial distribution of the nuclear-active particles is investigated. The authors determined the current density  $p_{\text{nuclear-active}}$  (r)

of the nuclear-active particles in a wide nuclear-active shower in different center distances by using a well-known formula. A diagram shows the results for wide showers with an average number of 2.10<sup>5</sup> particles. As a result of the great

Card 1/3

Cloud Chamber Investigation of the Nuclear-Active Component of Wide Atmospheric Showers.

56-1-8/56

statistical errors it is impossible to describe the exact form of the spatial distribution of the nuclear-active particles. But the distribution received here is not contradictory to a distribution of the typ r-n, with the value of n close to 1. Two main groups of nuclear electron showers can be distinguished: showers with narrow electron cascades, and those with no electron cascades of high energy. A characteristic feature of the first group of showers is the narrow angular distribution of the particles and the high energy of the neutral pions which form the beginning of the electron-photon cascades. The showers of the second group have a wide angular distribution of the particles and a comparatively low energy of the neutral pions. Besides these two main groups of nuclear electron showers two small groups were found. The next passage deals with the determination of the energy of nuclear-active particles by means of the different methods suited to each of these groups. About one half of the nuclear-active particles are charged, the rest is neutral. He can be concluded from this that the nuclear-active component of wide showers at sea level with the energy of

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# CIA-RDP86-00513R000308810014-6

Cloud Chamber Investigation of the Nuclear-Active Component

56-1-8/56

of Wide Atmospheric Showers. 109-10 eV chiefly consists of nucleons. There are 6 figures, 4 tables, and 8 references, 5 of which are Slavic.

Moscow State University . Physical Institute imeni P.N. Lebedev of the AN USSR (Moskovskiy gosudarstvennyy uni-ASSOCIATION: versitet. Fizioheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR).

Library of Congress AVAILABLE:

July 25, 1957

Card 3/3

SUBMITTED:

BLINOV, P.I.; ZAKATOV, L.P.; PLAKHOV, A.G.; CHIKIN, R.V.; SHAPKIN, V.V.

Effect of the mirror ratio on the heating of a plasma by an electron beam in a magnetic trap. Pist. v red. Zhur. eksper. i teoret. fiz. 2 no.9:426-430 N '65. (MIRA 18:12)

1. Submitted September 9, 1965.

AKHMATOV, A.P.; BLINOV, P.I.; BOLOTIN, V.F.; BORODIN, A.V.;

GAVRIN, P.P.; ZAVOYSKIY, Ye.K.; KOVAN, I.A.; OGANOV, M.N.;

PATRUSHEV, B.I.; PISKAREV, Ye.V.; RUSANOV, V.D.; SMOLKIN,

G.Ye.; STRIGANOV, A.R.; FRANK-KAMENETSKIY, D.A.; CHEREMNYKH,

P.A.; CHIKIN, R.V.

[Magnetoacoustic resonance in a plasma] Magnito-zvukovoi rezonans v plazme. Moskva, In-t atomnoi energii, 1960. 23 p. (MIRA 17:2)

L 21556-66 EWT(1)/EWG(m)/EPF(n)-2 IJP(c) ACC NR: AP6008752 SOURCE CODE: UR/0386/66/003/006/0255/0258 AUTHOR: Blinov, P. I.; Zakatov, L. P.; Plakhov, A. G.; Chikin, R. V.; Shapkin, V. ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii) TITIE: Influence of magnetic-field configuration on the heating and containment of 3 a plasma in a mirror trap (Probkotron) SCURCE: Zhurnal eksperimental now i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 6, 1966, 255-258 TOPIC TAGS: magnetic mirror, plasma containment, plasma heating, magnetic trap, plasma radiation, probabilists electron beam ABSTRACT: This is a continuation of earlier experiments on heating of a plasma by an electron beam in a mirror trap (ZhETF Pis'ma v. 2, 426, 1965), aimed at showing that heating and containment of the plasma depend strongly on the distribution of the magnetic field along the trap axis. The experiment was carried out with the earlier installation, which made it possible to operate with two different configurations of the magnetic field (Fig. 1). The mirror ratio and the field in the center remained un-

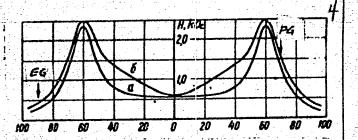
changed in both cases. The plasma initial density was  $10^{12}$  cm<sup>-3</sup>. A pulsed beam of electrons with current strength 1 a, energy 10 kv, and duration 500 µsec was injected into this plasma. The heating and decay of the plasma were investigated by measuring the time variation of the energy content (nT) and of the density n. On going over from a field configuration with local mirrors (a) to a configuration with extended mirrors (b) the maximum value of nT increases by a factor 1.5. The value of nT of the

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ACC NR: AP6008752

Fig. 1. Distribution of the magnetic field of the trap. The arrows indicate the locations of the guns: electron (EG) and plasma (FG).



hot electrons was three times larger in the field configuration with extended mirrors than in the configuration with the local mirrors, and the decay time was 20 and 2 µsec in the two cases, respectively. The time variation of the electron density was similar to that of nT. The prolonged containment of hot electrons in a trap with extended mirrors was evidenced also by the x-ray bremsstrahlung, which is observed for 100 msec. It is therefore concluded that the heating and containment of the plasma by a pulsed electron beam increase on going from a mirror trap with local mirrors to a mirror trap with extended mirrors. This may be due not only to the more effective transfer of energy from the beam to the plasma, but also to improvement in the containment of the hot electrons in the field with extended mirrors. Authors are sincerely grateful to A. V. Gordayev and G. V. Sholin for useful discussion, and also to G. A. Kudintseva and G. M. Kuznetsova for furnishing the cathodes. Orig. art. has:

SUB CODE: 20/

SUBM DATE: 06 Feb66/

ORIG REF: 901

Card 2/2 BLC

21211-66 EWT(1) ACC NR AP6011945 SOURCE CODE: UR/0213/65/005/006/1038/10/2 AUTHOR: Chindonova, Yu. G.; Shulepov, V. A. ORG: Acoustics Institute AN SSSR(Akusticheskiy institut AN SSSR) 13 TITLE: Sound-scattering layers as indicators of internal waves in the ocean SOURCE: Okeanologiya, v. 5, no. 6, 1965, 1038-1042 174; TOPIC TAGS: acoustic echo, ocean acoustics, biologic ecology, acoustic scattering, oceanography, sonar, oceanographic expedition ABSTRACT: During the voyages of the "Petr Lebedev" in the winter-spring seasons of 1962-1964 the depth of the ocean floor was measured by an echo sounder; it also was possible to obtain records of sound-scattering layers. This paper discusses the collected data on these layers to determine their relationship to internal waves. The observations were made in the open ocean, and therefore the results differ from earlier studies made in coastal and shallow waters; the variations of the soundscattering layers have greater amplitudes and the layers are at greater depths. It is shown that data on the distribution of these layers can yield important information on the amplitudes of the internal waves and the depths to which they penetrate. In addition, the results give additional information on the ecology of pelagic animals populating the ocean. A table gives data on the location, time, amplitudes, wave lengths and depths of sound-scattering layers whose distribution is related to internal waves. Orig. art. has: 2 figures and 1 table. [JPRS] SUB CODE: 08, 06, 20, 17 / SUBM DATE: 19Jul65 / ORIG REF: 003 / OTH REF: 005 Cord 1/1 Ful UIC: 577.472(26)

L 11950-66 EMT(1 ACC NR. AF6000740 BOURCE CODE: "UR/(1386/65/002/009/0426/0430 Blinov, P. I.; Zakatov, L. P.; Plakhov, A. G.; Chikin, R. V.; Shapkin, ORG: none TITIE: Influence of the mirror ratio on plasma heating by an electron beam in a "probkotron" SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 9, 1965, 426-430 TOPIC TAGS: magnetic mirror machine, plasma interaction, plasma heating, ionized plasma, plasma electron temperature, electron gun, plasma injection ABSTRACT: The authors investigated the interaction between an electron beam and a pready-made highly ionized plasma. The apparatus (Fig. 1) comprises a trap with mag-55 netic mirrors. The electron gun is located on the trap axis behind the mirrors on one end, and the plasma injector is located on the other end. The electron gun operates in a pulsed mode. The square-wave voltage pulse is of 450 µsec duration and 9 kv amplitude, the pulse current being 5 a. The plasma and the electron beam are injected into the trap simultaneously. Whe residual pressure in the chamber is  $10^{-6}$  mm Hg. The electron density was measured with a microwave interferometer ( $\lambda = 3$  cm). The quantity nT (T = plasma temperature) was determined from the diamegnetic effect. The bremsstrahlung was registered by photomultiplier with NaI(Tl) crystal. When the plasma and the electron beam are simultaneously injected in the plasma, the concentration does not rise, but the energy released by the plasma increases strongly. The presence of Card 1/3

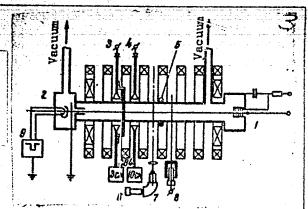
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ACC NR. AF6000740

Fig. 1. Diagram of setup. 1 - Plasma injector, 2 - electron gun, 3, 4 - microwave source, 5 - diamagnetic probe, 6, 7 - electron-optical and spectral apparatus, 8 - bremsstrahlung recorder, 9 - low-voltage pulsed source.



"hot" electrons in the trap is evidenced by the prolonged, intense, and hard bremsstrahlung. The efficiency with which the plasma electrons are heated by the beam depends on the mirror ratio. As the mirror ratio is varied from 1.8 to 4, the plasma pressure increases tenfold. The plasma lifetime in the trap increases. A group of "hot" electrons, with a prolonged confinement time and with density close to 10<sup>10</sup> cm<sup>-3</sup> appears. Accordingly, the energy lost by the electron beam to plasma heating increases from fractions of one percent to 3.5%, and during the initial stage of the heating (the first 90 μsec) the loss reaches 10%. The influence of the mirror ratio on the heating of plasma with direct current was observed also in experiments of M. V.

Cord 2/3

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CHIKIN, S. Ya. (Moskva)

New program of the party on the public health and physical well-being of man. Zdrav. Ros. Feder. 6 no.5:3-7 My '62.

(MIRA 15:7)

(PUBLIC HEALTH)

CHIKIN, S.Ya.; UDINTSOV, Ye.I. (Moskva)

Let's give more attention to attracting the public to health protection for the nation. Zdrav.Ros.Feder. 6 no.9:6-10 S '62.

(MIRA 15:10)

(PUBLIC HEALTH)

# CHIKIN, S.Ya. (Mockva)

Our main task is the realization of party and government decisions on public health development. Sov.med. 26 no.1:3-5
Ja \*63.

(PUBLIC HEALTH)

### CIA-RDP86-00513R000308810014-6

## CHIKIN, S.Ya.

Elevating the role of medical workers in the control of religious prejudices. Zdrav.Ros.Feder. 7 no.223-6 F '63. (MIRA 16:4)

1. Zamestitel' ministra zdravookhraneniya RSFSR. (ATHEISM)

CIA-RDP86-00513R000308810014-6" APPROVED FOR RELEASE: 06/12/2000

CHIKIN, S.Ya. (Moskva)

ď.

Health problems of the population in caputalistic countries and their social basis. Zdrav. Ros. Feder. 7 no.5:24-30 My 63 (MIRA 16:6)

(LABOR AND LABORED CARE)

# CHIKIN, S.Ya. (Moskva)

June Plemum of the Central Committee of the CPSU and the role of medical workers in the implementation of tis decisions.

Zdrav. Ros. Feder. 7 no.8:3-6 Ag 163. (MIRA 16:10)

(MEDICAL PERSONNEL)

CHIKIN. Ya. (Moskva) November Plenum of the Central Committee of the post and the soals of public health institutions. Med. sestra 22. no.4:3-12-April 29

1. Zamestitel' ministra zdravookhraneniya; iz Ministerstva zdra-Vookhraneniya RSFSR.

CHIKIN, S.Ya. (Moskva)

History of theories on the physical development and physical education of man. Sov.sdrav. 22 no.4:12-18 '63. (MIRA 16:4) (PHYSICAL EDUCATION AND TRAINING)

CHIKIN, S. Ya. (Moskva)

Automation of industry and deterioration of the health of workers in capitalistic countries. Sov. med. 26 no.ll: 98-103 N°62 (MIRA 17:3)

## CHIKIN, S. Ya.

Continuous improvement of the medical service for the population. Sovet. zdravookhr. 12 no. 1:3-9 '63. (MIRA 17:2)

1. Zamestitel' ministra zdravookhraneniya RSFSR.

CHIKIN, S.Ya. (Moskva)

What is said in the second review of the World Health Organization. Sov. med. 27 no.6:135-140 Je '64.

(MIRA 18:1)

CHIKIN, S.Ya.; CHEKNEV, B.M. (Moskva)

Care of the Soviet state for the nationalities of the Far North. Sov. med. 25 no.1:137-141 Ja '65. (MIRA 18:5)

## "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308810014-6

CHIKIN, S.Ye. (Moskva)

M.V. Lomonosov as the founder of modern natural science. Sov. med. 28 nc.6:151=153 Je '65. (MIRA 18:8)

CHIKIN, S.Ya. (Moskva)

Existentialism as a philosophical movement alien to the interests of people's health. Sov.med. 28 no.12:119-120 D '65. (MIRA 18:12)

OGANOV, G.; CHIKIN, V.; GRADOV, R., red.; SUROVISEVA, S., tekhn.

[How do we get to Mars?] Na Mars - s chem? Moskva, Izd-vo "Pravda," 1963. 79 p. (Biblioteka "Komsomol'skoi pravdy," no.12)

(MIRA 17:2)

SOV/124-57-5-5175

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 11 (USSR)

AUTHOR:

Chikin, V. A.

TITLE:

The Stability of the Permanent Semisymmetrical Axes of a Ponderable Solid Body Having a Fixed Point (Ustoychivost permanentnykh polusimmetrichnykh osey tyazhelogo tverdogo tela, imeyushchego nepodvizhnuyu tochku)

PERIODICAL: Tr. Ryazansk. radiotekhn. in-ta, 1956, Vol I, pp 222-232

ABSTRACT: The author makes use of Grammel's indispensable conditions for the stability of the permanent rotations of a ponderable solid body having one fixed point for the purpose of investigating the stability of such rotations in the specific case when the center of gravity of the body is located on a principal axis of inertia. For the general case the sufficient conditions of stability of permanent rotations of a ponderable solid body were previously given by V. V. Rumyantsev (RZhMekh, 1956, abstract 8040).

G. K. Pozharitskiy

Card 1/1

29643 S/146/61/004/004/007/015 D201/D306

13,2520

Chikin, V.A.

AUTHOR:

Center of parcussion of heavy gyracopes

PERIODICAL:

Card 1/3

Izvestiya vysshikh uchebnykh zavedeniy. Priboro-

stroyeniye, v. 4, no. 4, 1961, 48 - 52

TEXT: The author introduces the idea of percussion center into the theory of gyroscopes. The gyro is considered to be a solid body, revolving without friction about the fixed point, as the main vector and the main moment of the system of momentum. The kinetic center of the gyro (denoted by A<sub>1</sub>) is defined as the point of intersection of the central axis of the system of vectors of momenta of separate particles with the plane α passing through the vector of the instantaneous angular velocity and the center of gravity of the gyro. A special class of gyroscopes is considered which is found to comprise five different cases listed below. The center of rotational forces of inertial of the gyro (denoted by A<sub>2</sub>) is defined as the point of intersection of the central axis of the system of vectors.

29643 \$/146/61/004/004/007/015 D201/D306

Center of percussion of heavy ...

Card 2/3

tors of rotational intertial forces, with the plane passing through the vector of angular acceleration and the center of gravity. It is shown that for the class of gyros considered, the point A2 is the percussion center of the gyro, The conditions are then analyzed for 5 types of gyros under which the impact reaction pulse R does not exist, i.e. is not aransmitted to the suspension point: 1) The Lagrange gyroscopic movement: Equations are obtained which show that  $\ddot{R}=0$  if the impact pulse is perpendicular to the symmetry of the gyro and applied to the center of rotating inertia forces. The regyro sults obtained are recommended for the design of supports in gyroscopes with the center of gravity desplaced along the symmetry axis. 2) Gyro with full kinetic symmetry. The results of (1) are applicable in full. 3) The Steklov-Bobylev gyro (Ref. 1: Gostekhizdat, 1946, str. 638, 636, 581, 576). In this case there is a locus of percussion center along a straight parallel line passing through the center of rotating forces of inertia. 4) Hess gyro. This is again case I, except that the impact pulse must now lie in the plane passing through A2 in parallel to the cross-section of the ellipsoid of gyration. 5) Permanent rotation about vertical axis, In

### "APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308810014-6

22(di.) **S/146/61/**004/004/007/015 D201/D306

Center of percussion of heavy ...

this case the percussion center does not exist. This article was recommended by the Orgkomitet III mezhvuzovskoy konferentsil poproblemam sovremennoy giroskopicheskoy tekhniki (Organizational Committee of the III Interuniversity Conference on Problems of Modern Gyroscopic Techniques). There are 2 references: 1 Soviet bloc and 1 non-Soviet-bloc.

ASSOCIATION: Ryazanskiy radiotekhnicheskiy institut (Ryazan Radio---technical Institute)

SUBMITTED: December 28, 1960

Card 3/3

s/549/61/000/104/001/018 D237/D304

Tikhmenev, S.S., Tronina, V.P., Chikin, V.A., Knyazev, G. N., Gulyayev, M.P., Zakharov, Yu.Ye., Chikina, I.S., Lya-AUTHORS:

min, V.I., Bocharov, V.K., Shigin, Ye.K., and Krotov, V.F.

Scientific, pedagogical and general activities of Profes-TITLE:

sor V.V. Dobronravov

Moscow, Vyssheye tekhnicheskoye uchilishche [Trudy], no. SOURCE:

104, 1961. Mekhanika, 7 - 18

TEXT: On the occasion of his 60th birthday and the 35th anniversary of the scientific and pedagogical activity of Professor, Doctor of Physical and Mathematical Sciences, Vladimir Vasilyevich Dobronravov who is at present Professor of Theoretical Mechanics at MVTU im. N.E. Baumana (MVTU im. N.E. Bauman), eleven of his students im. N.E. this appreciation. V.V. Dobronravov was born on March 17th, present this appreciation. 1901. In 1924 he obtained his degree in mathematics at the Saratovskiy Gosudarstvennyy universitet im. N.G. Chernyshevskiy (Saratov State University im. N.G. Chernyshevskiy). In 1927 he accepted the

Card 1/3

S/549/61/000/104/001/018 D237/D304

Scientific, pedagogical and ...

post of Assistant to the Professor of Physics at the Astrakhan State Medical Institute, where in subsequent years he published a paper in neuro-biophysics. During 1929-31, he was Professor of Mathematics at the Saratov Agricultural Institute and lectured at Saratoy University. From 1931 he worked in a number of higher educational establishments in Moscow and was associated with Moscow University from 1931 to 1952. In 1946 he was awarded a doctorate at Moscow State University and in 1951 he was elected to the Department of Theoretical Mechanics at MVTU im. N.E. Bauman, where in subsequent years, under his guidance, courses in specialized branches such as stability of motion, gyroscopy, oscillation, variational method etc. were developed. During his career the main contributions made were in the rield of mechanics of non-holonomic systems. After 1950 he published papers on kinetics of motion of rigid body (Trudy MIKhM, no. 2, (10), 1950), stability of linear systems of diff. equations with constant coefficients in (Avtomatika i Telemekhanika, v. 17, no. 3, 1956) etc. In the 1950's he also became interested in astronautics. He has been a member of the Moscow Mathematical Society since 1944, and is an active member of the Methodological Commis-

Card 2/3

Scientific, pedagogical and ...

S/549/61/000/104/001/018 D237/D304

sion on the Theoretical Mechanics of the Ministry of the Secondary and Higher Education of USSR. At present he is engaged in preparing a monograph on non-holonomic systems.

ASSOCIATION: Moskovskoye ordena Lenina i ordena trudovogo krasnogo znameni vyssheye tekhnicheskoye uchilishche im. Baumana (Moscow Order of Lenin and Order of the Red Banner of Labor Higher Technical School im. Bauman)

Card 3/3

24.4100

S/549/61/000/104/011/018 D237/D304

AUTHOR: Chikin. V.A.

TITLE: Classification of the motions of a heavy rigid body having

a fixed point

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy],

no. 104, 1961. Mekhanika, 101 - 108

TEXT: The author continues the work of A. Signorini and derives a number of properties of various motions of a rigid body about a stationary point using vector notation. Four theorems are stated and proved and all known types of motion are grouped in three classes depending on whether the vectorial system of motion reduces to a single resultant vector, a couple or a screw. There are 1 figure and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

ç

Card 1/1

35633

24,4100 13.2521

S/549/61/000/104/012/018 D237/D304

AUTHOR: Chikin, V.A.

TITLE: Geometrical properties of 'anti-poles' during the motion

of a heavy asymmetric body about a fixed point in the

Grioli case

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy],

no. 104, 1961. Mekhanika, 109 - 114

TEXT: The author studies the regular precession of a heavy asymmetrical body first described by G. Grioli. Starting with the solution of Euler-Poisson equations, the author defines and describes the behavior of two anti-poles using the results of the preceding paper, and formulates the following theorem: If a neavy rigid body moves about a stationary point 0, and circular cross-sections of its central ellipsoid of inertia are not orthogonal with respect to each other, and if the body satisfies Grioli conditions, then the moving axoid given by

 $x^2 + y^2 - z^2 = 0 (4)$ 

Card 1/2

s/549/61/000/104/012/018

Geometrical properties of ...

where x, y, z are cartesian coordinates with the origin at 0 and the corresponding cone

$$x_1^2 + y_1^2 - [z_1 - \frac{1}{Mz_0} (A - C)]^2 = 0$$
 (10)

(where A and Care axial moments of inertia, M - mass,  $z_{\rm G}$  - coordinate of the center of gravity) which contains the first anti-pole, coincide. There are 4 references: 2 Soviet-bloc and 2 non-Sovietbloc.

Card 2/2

#### "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308810014-6

\$/145/62/000/002/002/009 D259/D308

AUTHOR:

Chikin, V.A., Senior Lecturer

TITLE:

The anti-pole of a straight line with respect to an ellipse and its use in investigating problems of motion of a heavy solid body around a fixed point

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye. Vestnik, no. 2, 1962, 14 - 22

Signorini's concept of the reciprocal pole is verified from first principles and applied to a system of points having a center of gravity G and an instantaneous axis of rotation a, which does not pass through G. Parameters are established for the relative positions of  $a_0$ , G, and a point A which is the reciprocal pole of  $a_0$  and the central ellipse of inertia of the system. These parameters are used to investigate a solid body having a fixed point 0 on its instantaneous axis of rotation. The system of displacement vectors and kinetic moments resolves into the general form of a spiral, the axis of which passes through the reciprocal pole of ao relative to the central ellipse of inertia of the body. In the particular case

The anti-pole of a straight line ...

S/145/62/000/002/002/009 D259/D308

when the instantaneous axis ao is also the permanent axis the vector system has a resultant Q applied at the reciprocal pole A, perpendicular to the plane of the central ellipse of inertia. When ao passes through the center of gravity G, the vector system becomes a couple applied in a plane which passes through G perpendicular to ao. The author concludes at all known cases of motion of a solid body around a static point can be divided into three classes in which the displacement vectors can be resolved into (1) a resultant, (2) a couple or (3) a spiral. Cases of Lagrange complete kinetic symmetry, permanent rotation of Mlodziyevskiy-Staude, Hess and of Steklov-Bobylev belong to the 1st class, Euler's case to the 2nd class, and all others to the 3rd class. There are 2 figures.

ASSOCIATION: Ryazanskiy radiotekhnicheskiy institut (Institute of Radio Engineering, Ryazan')

SUBMITTED: March 18, 1961

Card 2/2

**L2760** 

24,4100

8/145/62/000/006/001/005 D262/D308

AUTHOR:

Chikin, V.A. Senior Lecturer

TITLE:

Geometrical properties of reciprocal poles at the movement of a heavy asymmetrical body around a fixed

point, in the Hess case

PERIODICAL:

Izvestiya vysshikh uchebnykhzavedeniy. Kashinostroy-

eniye, no. 6, 1962, 55-63

Using the concept of the reciprocal pole of a straight line with respect to an ellipse, the author simplifies Thupovskiy's geometrical interpretation of the Hess (Gess) case and grains some new results. The following theorems are established: In the Mess case, the heavy solid body moves about a fixed point in such a way that the vectors of instantaneous angular velocity and acceleration belong to the plane of permanent axes of rotation. Their reciprocal poles coincide with a point situated on a perpendicular to the circular section of gyration ellipscid together with the center of gravity. 2) The kinetic moment and the moment of weight with

Card 1/2

S/145/62/000/006/001/005 D262/D303

Geometrical properties ...

respect to the fixed point 0, the force function and the kinetic energy are proportional respectively to the same quantities of the reciprocal pole, assuming that all the mass is concentrated in the latter. 3) The motion can be considered as consisting of the motion of reciprocal pole as a spherical pendulum having a mass equal to that of the body and a rotation about the line passing through 0, the center of gravity and the reciprocal pole of the instantaneous axis of rotation with respect to the central ellipse of inertia al. A formula is given for the angular velocity of this rotation. 4) If 0 is transferred to al, the motion of the body will not be changed if initial conditions are the same. Several relations are deduced from Theorem 1.

ASSOCIATION:

Kyazanskiy radiotekhnicheskiy institut (Ryazan'

Radiotechnical Institute)

SUBMITT ....

March 18, 1961

Card 2/2

8/020/62/142/005/012/022 B104/B102

13.2540

Chikin, V. A.

TITLE:

AUTHOR:

Generalization of one of the Huygens principles

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 5, 1962, 1058-1060

TEXT: The author generalizes the Huygens principle of the reciprocity of the point of suspension and center of oscillation of a physical pendulum: If the point of suspension of a heavy rigid body fulfilling the Hess condition

 $I_{z}^{(G)}(I_{x}^{(G)} - I_{y}^{(G)}) - I_{zx}^{(G)^{2}} = 0$  (4)

is shifted into the kinetic center of the body, the kinetic center is also shifted into its point of suspension. The motion of the body remains unchanged under equal initial conditions. The intersection of the kinetic axis with the vector of the instantaneous angular velocity is called the kinetic center of the body. The central axis of the screw formed by the vector system  $\mathbf{m}_{\mathbf{v}}\mathbf{v}_{\mathbf{v}}$  is the kinetic axis of the body.  $\mathbf{I}_{\mathbf{x}}^{(G)}$ ,  $\mathbf{I}_{\mathbf{y}}^{(G)}$ , and  $\mathbf{I}_{\mathbf{z}}^{(G)}$  are the axial moments of inertia of the body, and Card 1/2

Generalization of one of ...

S/020/62/142/005/012/022 B104/B102

 $I_{zx}^{(G)}$  is the centrifugal one. There are 3 Soviet references.

ASSOCIATION: Ryazanskiy radiotekhnicheskiy institut (Ryazan' Radio-

technical Institute)

October 20, 1961, by A. Yu. Ishlinskiy, Academician PRESENTED:

SUBMITTED: May 23, 1960

Card 2/2

# CHIKIN, V.A., starshiy prepodavatel!

Geometrical characteristics of antipoles during the motion of a heavy nonsymmetrical body around a fixed point according to Gess' principle. Izv.vys.ucheb.sav.; mashinostr. no.6:55-63 162.

1. Ryazanskiy radiotekhnicheskiy institut.
(Motion)

# "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308810014-6

L 37701-66 EWP(k)/EWT(m)/T/EWP(t)/ETI IJP(c) JH/JD  ACC NR. AP6017299 (A) SOURCE CODE: UR/0136/66/000/005/0083/0085  AUTHORS: Danilkin, V. A.; Grigor'yeva, A. A.; Pimenov, Yu. P.; Chikin, V. K.;  Pavlov, Ye. S.  ORG: none  TITLE: Influence of evacuation on the land of t	1
AUTHORS: Danilkin, V. A.; Grigor'yeva, A. A.; Pimenov, Yu. P.; Chikin, V. K.;  ORG: none	
AUTHORS: Danilkin, V. A.; Grigor'yeva, A. A.; Pimenov, Yu. P.; Chikin, V. K.;  Pavlov, Ye. S.  ORG: none	^
TITLE: Influence of evacuation on the land	
TITLE: Influence of evacuation on the hydrogen and aluminum oxide content in B  SOURCE: Tsvetnyye metally, no. 5, 1966, 83-85	
TOPIC TAGS: aluminum, vacuum degassing, hydrogen, aluminum oxide / AK6 aluminum alloy	
ABSTRACT: The effect of degassing on the hydrogen and aluminum oxide content in aluminum and aluminum alloys AK6 and D1 was determined. The investigation supple-1961, s. 150). The hydrogen content was determined after V. A. Danilkin i dr. (Zavodskaya laboratoriya, 1961, No. 3) and the aluminum oxide content after the method of O. Z. Werner (Anal. Chem., 1941, 121, S. 259). The experimental results are presented graphically (see Fig. 1). A brief discussion of the necessary and sufficient conditions of the formation of hydrogen bubbles in the melt is presented. Nauka, 1964, s. 14). It is concluded that yacuum degassing of aluminum and its	
Card 1/2 UDC: 669.715.017	

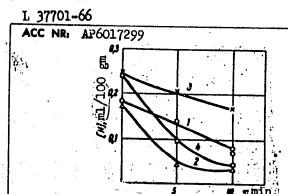


Fig. 1. Dependence of the hydrogen content on the duration of argon purging under vacuum. (Presidual = 4 mmHg). 1 - Al, upper layer; 2 - Al, lower layer; 3 - AK6, upper layer; 4 - AK6, lower layer.

alloys, particularly when combined with argon purging, results in a considerable decrease of the hydrogen content of the melt. The vacuum chamber was designed by I. L. Teytel. Orig. art. has: 3 graphs and 2 equations.

SUB CODE: 11/

SUBM DATE: none/

ORIG REF: 005/

OTH REF: 005

KLIMOV, Yu.M.; CHIKIH, V.V.; AHISIMOV, N.I.; BARSKOV, I.M.; VINOGRADOV, Yu.V.; CAVRILOV, A.B.; GAUKHMAN, L.A.; GOLOV, A.P.; GOL'DMAN, L.S.; GREAKNNIKOV, G.I.; YEPIMOV, A.N.; ZALUTSKIY, M.S.; ZAYTSEVA, A.V.; OIYRYSH, A.I.; KANDARITSKIY, V.S.; KAPRANOV, I.A.; KOVALEV, H.I.; KOVALEVSKIY, K.A.; KOLOSOV, A.F.; KRIVOV, A.S.; KRYLOV, R.M.; LEVITAS, A.G.; MALYGIN, M.A.; MORALEVICH, Yu.A.; MOTYLEV, A.S.; NESTEROV, M.V.; NIKOL'SKIY, A.V.; ORLOV, G.M.; ORLOV, Ya.L.; PAHENSKIY, V.M.; POLYAKOV, A.S.; RUBIN, V.I.; SVANIDZE, K.M.; STRIGIN, I.A.; TAKOYEV, K.F.; TRUBNIKOV, S.V.; CHERNYSHEVA, L.N.; CHESNOKOV, N.YO.; SHAMBERG, V.M.; STRUMILIN, S.G., akademik, red.; ANTOSENKOVA, L., red.; MIKAELYAN, E.; red.; MUKHIN, Yu., tekhn.red.

[Dictionary of the seven-year plan from A to Z] Slovar' semiletki ot A do IA. Moskva, Gos.izd-vo polit.lit-ry, 1960. 397 p.
(MIRA 13:7)

(Russia -- Economic policy)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308810014-6

<u> </u>	HI	KIN,	<u> </u>	.l 1	4	- ) <del>-</del> (	32************************************				10.5 1							_	
	AMSOCIATION: Pisite-bhalcal institute iseni L. Ta. Karpora. (Physics-chancal institute iseni L. Ta. Karpora) SUMMITTED: February 24, 1960	apprisents with the game entitiers. There are 8 figures, 7 tables, and 11 references: 5 Soriet, 4 DR, 1 Entitle, and 1 Englan.  Card 3/4	showed has the phystograms contained mas a hagen density to yellogo. O.975 and engage of organization and hage pressure polythylene, differs, herever, only alightly from the latter with respect to the differs, herever, only alightly from the latter with respect to the darker has a constant of the contained of t	interest from () to 0 y to an opposite restriction rate and the option of the season (streams in the polymerted out by To. M. Millionia out of the season of	O.T. The melecular weight of polysthians increases with a reduction of the relation does that force of O.T. The solicity weight of polysthians that the relation does (this b). A report of the relation does (this b). A report of the relation does (this b). A report of the relation does (this content of the relation does (this content of the relation does not be relative to the relative to t	palysthylens (fable 5) rise with pressure (i.e. the ethylens concentration). The maximum rate of palymerisation increases somewhat with the radiation does with a proportionality factor of 0.3, while the radiation-chamical rick games age with an increase in the radiation does with a factor of	Card 2/4  Card 2/4  20.5 c/l.boar (Table 4). The mean molecular weight and viscosity of	essitant raise. The same anisottan weight and the characteristic vis- easity of the polymera immeases with proceeding transformation (Ashie 5). The mean reportion rate amounts to 16.9 g/l. hour at 500 atm, 25°C, a furnation of 24 hours and radiation dose of 72 r/sec, and the maximum rate	parties has the galeyes place was niverveneed as constant to the (100-300 sta, 72 flee) and correcting presence (100 and 150 and 150 at 151 ff 17-165 g/see, 25° and 50°0). The polymer yield increases repidly if organization are made in the presence of polyethyrams (Table 2). To begin eith, the polymerisation rate increases with the polymerisation rate increases with the and reaches them.	rapidly than in the gaseou pane. The polymers formed have a solicular rapidly than in the gaseou pane. The polymers for the structure (1,0(0,m <sub>1</sub> ),21 (60%) and weight of 2000-40000. Felymers of the structure (1,0(0,m <sub>1</sub> ),21 (60%) and city(0,m <sub>1</sub> ),21 (20%) form in good yield in carbon termologists. Folymers city(0,m <sub>1</sub> ),21 (20%) form in good yield in carbon termologists.	apoltrasopically analysed by <u>E. J. Titiumity</u> and <u>A. L. L.</u>	Cart 1/4	Targery (100, 100, and 2000) gram equiv. En) and presented of 50-900 and, redistion dose of 17 to 155 r/sec, and 250 (tone experiments to 250-900 and, radiation dose efficients. The experiments were carried out the accremental form of the contract of the	TITE The radiation-chemical polymerization of ethylace in the gasous phase and in expanic substances was investigated at different pressure and radiation does no well as some properties of the polymers formed, and radiation does no well as some properties of the polymers formed.	PERIODICAL: Typobomolokulyarmyye soyedimeniya, 1960, Tol. 2, No. 6, pp. 904-915	AVABLES  ANALYSIST AND CENTER T. D. GENERAL No. A. SINGSET.  A. A. A. A. A. A. D. D. B. S. A. T. SERBATANA L. D. B. S. B. S. A. T. B. S. A	1	9	

AGJESSION NR: AP4012181

\$/0191/64/000/002/0003/0006

AURHORS: Abkin, A. D.; Auer, A. L.; Breger, A. Kh.; Vaynshteyn, B. I.; Voropayev, Yu. V.; Gol'din, V. A.; Gromov, V. P.; Osipov, V. B.; Syrkus, N. P.; Ushakov, V. D.; Khomikovskiy, P. M.; Tsingister, V. A.; Chikin, Yu. A.

PITLE: Radiation polymerization of ethylene in enlarged laboratory

200303: Plasticheskiye massy\*, no. 2, 1964, 3-6

TAGS: ethylene, radiation polymerization, reactor design, reactor surface area, reaction rate, polymer yield, reactor tempera-

ABSTRACT: Radiation polymerization of ethylene was conducted in laboratory reactors of 1-2 liter capacity (fig. 1 & 2). Based on tolerances admitted in this work, it was found that the temperature field can be calculated with sufficient accuracy. Comparison of reaction rates and yield of ethylene polymer shows that these factors are independent of the specific surface of the reaction space. Thus

| Card 1/4

### "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308810014-6

ACCESSION NR: AP4012181

commercial scale apparatus can be designed by estimating the process rate and yield dependence on pressure, temperature and dosage rate without concern for specific surface area of the reactor.

Orig. art. has: 1 Table and 5 Figures

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 26Feb64

ENOL: 02

SUB CODE: MA

NR REP SOV: 005

OTHER: 003

Card 2/42

LUKHOVITSKIY, .V.I.; CHIKIN, Yu.k.

Some electric phenomena observed during crystallization.
Elektrekhimia 1 no.9:1110-1113 S .65. (MIRA 18:10)

1. Filial Fisiko-khimicheskogo instituta imani L.Ya. Karpeva, Ohminsk.

### "APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308810014-6

POGODAYEV, V.N.; CHIKIN, Yu.M.

Rutile recovery during the dressing of Khiakhta deposit sillimenite ores. TSvet. met. 33 no.6:10-13 Je '60. (MIRA 14:4)

(Kiakhta—Ore deposits) (Rutile)

s/136/60/000/06/003/026 E071/E435

**AUTHORS:** 

Pogodayev, V.N. and Chikin, Yu.M.

TITLE:

وي رساسه . . . .

Extraction of Rutile During Concentration of Sillimanite

Ores from the Kyakhta Deposits

PERIODICAL: Tsvetnyye metally, 1960, Nr 6, pp 10-13 (USSR)

ABSTRACT:

The process of beneficiation of sillimanite ores from the above deposits with simultaneous isolation of rutile was investigated. The beneficiation was carried out according to two schemes: a) separation of rutile from the ore in centrifugal separators at the beginning of the process and b) the separation of rutile during the process of beneficiation of sillimanite by gravitational methods using jigs and concentration of the classified material on tables. The experimental results obtained by both methods are given in the Table. The scheme (a) was found to be more suitable. The finally proposed scheme for preliminary separation of coarse rutile concentrates and their subsequent treatment (using concentration, flotation of sulphides, electric and magnetic separation) are shown in Fig 1 and 2 respectively. Resulting

Card 1/2 sillimanite concentrates containing about 1% of titanium

S/136/60/000/06/003/026 E071/E435

Extraction of Rutile During Concentration of Sillimanite Ores from the Kyakhta Deposits

dioxide and rutile concentrates containing about 91% of titanium dioxide can be obtained. There are 2 figures and 1 table.

Card 2/2

\$/137/62/000/008/006/065 A006/A101

AUTHORS:

Chikin, Yu. M., Pavlova, Ye. M.

TITLE:

On the problem of increasing molybdenum extraction from sulfide

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 11, abstract 8079 ("Nauchn. tr. Irkutskiy n.-i. in-t redk. met", 1961, no. 10, 216 -

223)

Results are presented of laboratory and industrial investigations which had been carried out to reveal methods of increasing Mo extraction from ores. The experiments were made with ore containing 0.065% Mo sulfide and 0.016% Mo oxide. Molybdenite was the basic mineral. It was established that Mo losses during the process of basic flotation occurred mainly because of the incomplete disclosure of MoS2 grains in the coarse class (+2 mm) whose yield by crushing is > 20%. The authors show the main possibility of increasing Mo extraction by 2 - 3% on account of additional flotation concentration of refined products in a separate cycle with separation of 10 - 15% Mo products, suitable for hydrometallurgical conversion. A. Shmeleva

[Abstracter's note: Complete translation]

Card 1/1

8/137/62/000/006/023/163 A006/A101

AUTHORS:

Pogodayev, V. N., Chikin, Yu. M.

TITLE:

Concentration of copper-molybdenum sulfide ores of the Kiyalykh-

Uzen' deposit

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 7, abstract 6056 ("Sb. nauchn. tr. Irkutskiy n.-i. in-t redk. met.", 1961, no. 9,

100 - 107

TEXT: To concentrate Cu-Mo ore of the Kiyalykh-Uzen' deposit, a collective system is used with subsequent Cu- and Mo-selection. To obtain conditional Moconcentrates, experiments were carried out with a Mo-product from the factory. A system is proposed taking into account the mineralogical peculiarities (the size of free  $MoS_2$  is 0.03 - 0.05 mm and of  $MoS_2$  in concretion with  $SiO_2$  is 0.01 ~ 0.03 mm), the operational parameters of different minerals, and conditions of their discovery and separation. The conditions and system developed made it possible to obtain conditional Cu and Mo concentrates at 90 - 91% Cu and 56 - 57% Mo extraction from their content in the collective concentrate.

[Abstracter's note: Complete translation] Card 1/1

A. Shmeleva

# PLAKSIN, I.N.; CHIKIN, Yu.M.

Investigation of the effect of oxidized recycle and its sulfonation product in ilmenite and magnetite flotation. Izv. vys. ucheb. zav., tsvet. met. 7 no.5:23-28 '64 (MIRA 18:1)

1. Institut gornogo dela AN SSSR.

PLAKSIN, I.N.; CHIKIN, Yu.M. inzh.; LEVINSKIY, B.V., inzh.

Depressant action of humate ions on the flotation of magnetite by means of cation collectors. Izv. vys. ucheb. zav.; gor. zhur. no.8:152-157 64 (MIRA 18:1)

1. Chlen-korrespondent AN SSSR, Institut gornogo dela imeni A.A. Skochinskogo (for Plaksin). 2. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut redkikh metallov (for Chikin, Levinskiy). Rekomendovana otdelom obogashcheniya poleznykh iskopayemykh Instituta gornogo dela imeni A.A. Skochinskogo.

8/124/50/000/006/013/039 A005/A001

26.1220
Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 5, p. 78, # 7361

AUTHOR:

Chikina, I.S.

TITLE: The Motion

The Motion of an Ideal Liquid Within the Cavity of a Solid Moving

Horizontally

PERIODICAL:

Sb. nauchn. rabot. Ryazansk. s.-kh. in-t, 1958, No. 7, pp. 173-181

TEXT: The author considers the vibration of a liquid within-a cylindric vessel, which moves horizontally with a constant acceleration. The problem is solved in linear formulation. Some simplifying assumptions are made: the motion is considered as two-dimensional, the vertical acceleration of the liquid is neglected, etc. In this case, the problem is reduced to an equation of the hyperbolic type with respect to the horizontal shifts of particles of the liquid, which are at the free surface. The general solution of this equation is derived. Reviewer's note: In the introduction, the author considers in detail the complication of this problem and assumes that his work presents the first step in the investigation of the simultaneous motion of a body and a liquid. Actually however (that apparently is unknown to the author), the problem studied in the

Card 1/2

S/124/60/000/006/013/039 A005/A001

The Motion of an Ideal Liquid Within the Cavity of a-Solid Moving Herizontally

article-was the topic of a great number of investigations both in the USSR (Sretenskiy, Moiseyev, Okhotsimskiy and others) and abroad, in which similar problems were solved in rigorous formulation. The author solves his problem in an approximate formulation. In this way, the author succeeds in considering the case when the average level of the liquid varies in time. The author considers only that case, when the average depth depends on the time linearly.

N.N. Mciseyev

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

24.4300

35635 S/549/61/000/104/014/018 D237/D304

AUTHOR: Chikina, I.S.

TITLE: Oscillations of viscous fluid in a cylindrical cavity in horizontal motion

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy], no. 104, 1961. Mekhanika, 137 - 142

TEXT: The author considers a cylinder with a horizontal axis, filled with a viscous incompressible fluid with a free surface, and it
is assumed that the center of gravity of the cylinder moves horizontally with a constant acceleration a. Making a series of simplifying assumptions, the author solves the equations of motion of the
system and obtains the expression for the free surface of the fluid
which is more general than the one obtained by P.I. Gor'kov (Ref.
1: Izv. AN SSSR, OTN, 1954, no. 2) and which goes over into the
latter on equating the coefficient of viscosity to zero. There are

Card 1/1

35634

24.4100 10,5200

S/549/61/000/104/013/018 D237/D304

AUTHOR: Chikina, I.S.

TITLE: General equations of motion of a rigid body with fluid-

filled cavities and a generalization of a N.Ye. Zhukovskiy

theorem

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy],

no. 104, 1961. Mekhanika, 115 - 136

TEXT: The author proposes using tensor calculus and lists all the algebraic and analytical operations used in this work. Then, using the above relations, she derives general equations of motion of a rigid body with fluid-filled cavities about a fixed point without restricting the shape of the inner cavities and the extent to which they are filled with fluid. The method of derivation is based on the general theorems of the dynamics of material point systems. This is followed by the case of a body with cavities completely filled with a viscous fluid; additional boundary conditions are derived which, together with the Navier-Stokes and continuity equations

Card 1/2

General equations of motion of a ...

S/549/61/000/104/013/018 D237/D304

give complete description of the case. Considerations of kinetic energy of the system lead to a simpler, and at the same time more general expression for N.Ye. Zhukovskiy's theorem on the change in kinetic energy of the whole mechanical system during its motion. The limiting motion, defined as the motion during which the kinetic energy T = const. is considered and the conditions necessary for this motion to take place are derived. In conclusion, the author notes that the results can be utilized in ballistics, when dealing with projectiles filled with fluid. There is 1 Soviet-bloc reference.

Card 2/2

#### "APPROVED FOR RELEASE: 06/12/2000

#### CIA-RDP86-00513R000308810014-6

8/549/61/000/1C4/001/018 D237/D304

Tikhmenev, S.S., Tronina, V.P., Chikin, V.A., Knyazev, G. N., Guiyayev, M.P., Zakharov, Yu.Ye., Chikina, T.S., Lyamin, V.I., Bocharov, V.K., Shigin, Ye.K., and Krotov, V.P. AUTHORS:

TITLE: Scientific, pedagogical and general activities of Professor V.V. Dobronravov

SOURCE: Moscow, Vyssheye tekhnicheskoye uchilishche [Trudy], no. 104, 1961. Mekhanika, 7 - 18

TEXT: On the occasion of his 60th birthday and the 35th anniversary of the scientific and pedagogical activity of Professor, Doctor of Physical and Mathematical Sciences, Vladimir Vasilyevich Dobron-ravov who is at present Professor of Theoretical Mechanics at MVTU im. N.E. Baumann (MVTU im. N.E. Baumann), eleven of his students present this appreciation. V.V. Dobronravov was born on March 17th, 1901. In 1924 he obtained his degree in mathematics at the Saratov-skiy Gosudarstvennyy universitet im. N.G. Chernyshevskiy (Saratov State University im. N.G. Chernyshevskiy). In 1927 he accepted the Card 1/3

Scientific, pedagogical and ...

S/549/61/000/104/001/018 D237/D304

post of Assistant to the Professor of Physics at the Astrakhan State Medical Institute, where in subsequent years he published a paper in neuro-biophysics. During 1929-31, he was Professor of Eathematics at the Saratov Agricultural Institute and lectured at Saratov University. From 1931 he worked in a number of higher educational establishments in Moscow and was associated with Hoscow University from 1931 to 1952. In 1946 he was awarded a doctorate at Moscow State University and in 1951 he was elected to the Department of Theoretical Mochanics at MVTU im. N.E. Bauman, where in subsequent years, under his guidance, courses in specialized branches such as stability of motion, gyroncopy, oscillation, variational method etc. were developed. During his career the main contributions made were in the field of mechanics of non-holonomic systems. After 1950 he published papers on kinetics of motion of rigid body (Trudy MIKhM, no. 2, (10), 1950), stability of linear systems of diff. equations with constant coefficients in (Avtomatika i Telemekhanika, v. 17, no. 3, 1956) etc. In the 1950's he also became interested in astronautics. He has been a member of the Moscow Mathematical Society since 1944, and is an active member of the Methodological Commis-

Card 2/3

Scientific, pedagogical and ... D237/D304

sion on the Theoretical Mechanics of the Ministry of the Secondary and Higher Education of USSR. At present he is engaged in preparing a monograph on non-holomonic systems.

ASSOCIATION: Moskovskoye ordena Lenina i ordena trudovogo krannogo znameni vyoshoyo tekimicheskoye uchilibhche im. Daumana (Roscow Order of Lenin and Order of the Rod Bannor of Labor Higher Technical School in. Bauman)

ISMAYLOV, Kh.M.; OSIPOV, O.A.; GARNOVSKIY, A.D.; KASHIRENINOV, C.Ye.; CHIKINA, N.L.

Complex compounds of metals of group IV with dialkylaminomethylphenols and their sulfides. Dokl. AN Azerb. SSR 21 no.3:34-38 165. (MIRA 18:7)

1. Institut neftakhimicheskikh protsessov im. Yu.G.Mamadaliyeva AN AzerSSR i Rostovskiy gosudarstvennyy universitet.

CHIKINA, N. S.:

CHIKINA, N. S.: "The use of antibiotics with delayed results to treat protracted septic endocarditis." Second Moscow State Medical Inst ameni I. V. Stalin. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN MEDICAL SCIENCE).

Knishmaya letopis'
No. 35, 1956. Moscow.

USSR / Phermacology: Toxicology: Chemicotherapeutic Proparations: Anti-Biotics:

٧

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 14061

Author : Chikina, N. S.

Inst: Given below.
Title: Treatment of Prolonged Septic Endocarditis With

Antibiotics and Its Long-Range Results.

Orig Pub : Terapevt. arkhiv, 1958, 30, No. 5, 42-47

Abstract : No abstract

INST. : Iz kafedry fakul'tetskoy terapii (zav.- prof. M.I. Zolotova-

Kostomarova) lechebnogo fakul'teta II Moskovskogo meditsinskogo

instituta imeni N.I. Pirogova.

Card 1/1

CHIKINA, N.S., kand.med.nauk

Clinical and phy iological observations on the action of tauremisin.
Trudy KCMI no.1(:238-241 \*63. (MIRA 18:1)

1. Iz kafedry gospital'noy terapii (zav. kafedroy - prof. I.B. Shulutko) Kalininskogo gosudarstvennogo meditsinskogo instituta.

S/130/61/000/004/004/005 A006/A001

AUTHORS:

E .. 2 5 ......

Khasin, G.A., Chikina, V.G.

Production of Calibrated Ball Bearing Steel

TITLE:

Metallurg, 1961, No. 4, pp. 23 - 26

PERIODICAL:

At the Zlatoust Metallurgical Plant calibrated ball bearing UIX 9 (ShKh15),  $\coprod$  X 15 (ShKh15) and  $\coprod$  X15(Cf (ShKh15SG) steels of 10 - 53 mm size are produced. For 48 mm shapes, 85 mm square blanks are employed, and 120 mm squares for shapes of over 48 mm. Prior to rolling the blanks are etched, cleaned with abrasive disks, and preheated in continuous furnaces up to 1,080°C. During the rolling process the quality of the rolled stock surface is inspected. Cooling of the rods after rolling, down to 900 - 700°C eliminates overannealing of the carbide network. Black annealing of ball-bearing steel is made in chamber type furnaces with extensible floors and in furnaces with external mechanization. The sprayers are one-side arranged; pressure and temperature are automatically controlled. Conditions of black annealing in furnaces with extensible floors are: heating to holding temperature at a rate of 10° per minute; holding at 760°C for 1 hour; at 770°C for 2 hours; at 780°C for 4 hours and at 790°C: 4 hours for

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S/130/61/000/004/004/005 A006/A001

Production of Calibrated Ball Bearing Steel

ShKh9 steel; 6 hours for ShKh15 and 8 hours for ShKh15SG steel. Stepped annealing assures satisfactory and uniform heating of the metal and good operation of the sprayers. The metal is cooled at a rate of 40° per hour down to 700-720°C with isothermal holding and subsequent cooling to 600-550°C (Figure 1). Prior to drawing the metal is immersed to remove the scale from the surface. The remaining scale is eliminated in rotating drums and by etching. The rods are then coated with a sodium nitrite aqueous solution heated to  $60 - 70^{\circ}$ C for 15 - 20minutes. Cold drawing is made with 1 - 2 mm reduction depending on the diameter of the initial blank. Savings in metal and higher efficiency are obtained by mechanical pressing of the rods into draw plates (Figure 2). The rod is clamped in a carriage, whose reciprocating motion is produced by levers which are driven by a crosshead and pull rods. The use of this device yields savings of metal attaining 60 - 70 mm per length of each rod. Bright annealing is made in rectangular electric cupola furnaces of the OK6-426 (OKB-426) type using commercial nitrogen as shielding atmosphere. The furnace operation was unsatisfactory although some improvements were tried. Therefore it has been decided to replace these furnaces by induction furnaces. Actually, bright annealing of calibrated steel is performed in pipes at 720°C for 12 hours, and with air cooling. About 1 ten of calibrated rods are placed in the pipes which are scaled at one end. The shielding

Card 2/4

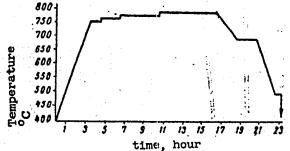
S/130/61/000/004/004/005 A006/A001

Production of Calibrated Ball Bearing Steel

atmosphere inside the pipe is produced with a mixture of fresh cast-iron chips and charcoal. After the rods have been placed in the pipes the open ends are sealed too. The quality of annealed metal is checked. Exceedingly decarbonized metal is subjected to repeated oxidizing annealing at 750 - 770°C with air excess in the furnace at the expense of negative pressure and by opening the air slit of the sprayers. This heat treatment assures the correction of 97% of metal rejected due. to unsatisfactory decarbonization. The technology described in producing ball bearing steel yields 92.3% ShKh9 and ShKh15, and 91.3% ShKh15SG steel out of the given amount of rolled stock.

#### Figure 1

Graph showing black annealing of ShKh15 steel



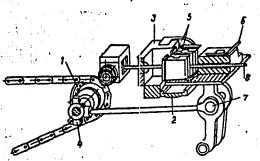
Card 3/4

Production of Calibrated Ball Bearing Steel.

## Figure 2

Schematic drawing of pushing the rods into the draw plate: 1 - dented sprocket wheel 2 - welded support; 3 - frame of pushing carriage; 4 - crosshead; 5 - pushing jaws; 6 - handle and levers for the compression of jaws; 7 - connecting rod of link; 8 - rod to be calibrated.

8/130/61/000/004/004/005 A006/A001



There are 3 figures.

ASSOCIATION:

Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant)

Card 4/4

S/130/62/000/002/005/005 A006/A101

AUTHORS:

Khasin, G. A., Chikina, V. G., Bogdashkin, A. I., Rannev, G. G., Bruns, G. L., Vashchenko, Yu. I.

TITLE:

A unit for the hot drawing of hard-to-deform steels

PERIODICAL: Metallurg, no. 2, 1962, 33 - 35

TEXT: At the Zlatoust Metallurgical Plant a unit for the hot drawing of hard-to-deform steels was developed and put into operation. It consists of a drawing mill, type I/750M, a tubular furnace to preheat the wire and a device for measuring the wire temperature during drawing. The wire is preheated in the tubular furnace by passage through molten lead and a charcoal layer. The capacity of the furnace is 75 kw, feed voltage 380 v, and the amount of lead 2,000 kg. The lead level remained almost unchanged after the calibration of over 100 tons high-speed steel; the wear of the draw plates is about 0.01 mm per 1 ton of wire. The wire temperature when leaving the draw plate is controlled by an infrared photo-electric pyrometer developed by NIIM, being able to measure temperatures within a range of 200 - 500°C. The pyrometer is combined with an electronic potentiometer 3III -120 (EPP-12). The least wire diameter during the measurement

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S/130/62/000/002/005/005 A006/A101

A unit for the hot drawing of hard-to-deform steels

is 2 mm. The distance from the sensitive head to the wire surface is 5 - 10 mm. The device is power-supplied from a 220 v 50 cycle circuit through a ferro-resonance voltage stabilizer. The device operates on the principle of measuring the intensity of infrared radiation of the heated metal. Its block-circuit is given. The draw plate temperature is controlled and regulated by an induction power-frequency heater which is mounted on the draw-plate holder, in whose body a manometric thermometer is mounted. The introduction of the hot drawing method at the Zlatoust Plant yielded the following results: reduction of heat treatment and preparatory operations by a factor of 3 -4; reduction of technological production time; increase of the drawing-drum efficiency; reduction of annealing time by about 35.5 hours per one ton of steel; reliable operation of the unit and the possibility of using it in other plants. There are 3 figures.

ASSOCIATIONS: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant): Chelyabinskiy NIIM (Chelyabinsk NIIM)

Card 2/2

KHASIN, A.; CHIKINA, V.G.; BOGDASHKIN, A.I.; RANNEV, G.G.; BRUNS, G.L.; VASHCHENKO, Yu.I.

Equipment for the hot drawing of deformation-resistant steel.

Metallurg 7 no.2:33-35 F '62. (MIRA 15:3)

1. Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskiy NIIM. (Drawing (Metalwork)—Equipment and supplies)

8/133/63/000/003/007/007 A054/A126

AUTHORS:

Khasin, G.A., Chikina, V.G., Kashin, Yu.A.

TITLE:

Hot drawing of bundle steel

PERIODICAL: Stal\*, no. 3, 1963, 271 - 273

In the cold drawing process of P18 (R18), P9 (R9) and 9X18 (9Kh18) high-alloy, low-ductility grades the wire rods have to be subjected to intermittent heat treatment. To eliminate this cumbersome procedure, the Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Flant) draws these steels in heated condition (since 1952). The first method of heating (by electric contact) produced sometimes local overheating of the wire, which resulted in ruptures. Therefore, another method was established by which the metal is heated prior to drawing in a lead bath (5,860 mm long, containing 2 t molten lead, heated by a 75 kw current). The bath temperature is 350 - 370°C, the metal is heated to 290 - 330°C, while just before the calibration its temperature is 300°C. The R18 wire rods are drawn by 34, 62, 76.5 and 81.5%, the 9Kh18 ones by 66.5% in total. The optimum drawing rates ensuring the required heating of

Card 1/2

Hot drawing of bundle steel

S/133/63/000/003/007/007 A054/A126

the metal are given. Prior to the intercalated lead-bath heating process, the wire rods are subjected to the conventional heat treatment. The wires produced by hot drawing have a bright surface, the same microstructure as cold-drawn ones, the aquadag coat applied to the metal surface before it is passed through the lead bath prevents it from being decarburized and oxidized. The mechanical characteristics of the hot-drawn steel wires are satisfactory, both grades maintain their ductility even at high deformation rates. The new method raised the output of the drawing equipment by a factor of 2; the elimination of intermediate annealing processes saves 315 kwh/t, while the primary costs for drawing 1 ton of steel decreased by 177.63 rubles. According to an Editorial Note the drawback of this method is that it requires much lead and a very good ventilation to remove the noxious lead vapors. It seems to be preferable to heat the wire rods by induction, as introduced in the Zavod Proletarskiy Trup (Proletarian Work Plant) and now under investigation at the 2MZ. The lead-bath method was developed in cooperation with S.P. Petukhov (Deceased), R.I. Valentova, G.G. Rannev, et al. The X-ray analysis of lead-bath heated wires was carried out by I.A. Brazgin. There are 2 figures.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant) and NIIMETIZ

Card 2/2

ACCESS	ION NR: AP5016010		UR/0193/65/000/005 621.365.5:669.14		
AUTHOI	: Chikina, Y. G.	Khasin, G. A.) Chem	enko, N. P.	23 B	
myon ta	Takaninalan ah	gh-frequency current Ld-drawn steel (at the	heating installation	for the	
BOUNC	: Byulleten' tek	nniko-ekonomicheskoy i	nformitali, no. 5, l	965, 7-10	
beurfa	tool steel, carbone decarburization	ency heating, induction steel; recrystallize, (annealing furnace)	ation Annealing, col	d drawn steel,	
contr	addly oridized and	for the rapid heating decarburized steels,	the illatoust Metilli	rgical Plant	
of re	een experimenting	with an installation	The foregon at metal for	om a juu-kv	
has b	tion heating. The	nign-frequency insta- uency 2500 cps). Bund	iles if rods from the	drawing and	
has b	tion heating. The ator (current freq	nigh-frequency installuency 2500 cps). Bund	iles of rods from the	drawing and	

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straightening machines are placed by a crane on a chain conveyer links. The roas arranged in a row by altering the tilt angles of the conveyer links. The roas arranged in a row by altering the inductors. Specimens of cond-drawn ball-	i i
drop between the tenders of the heated specimens both over their 150°C. The hardness of the heated specimens both over their 150°C. The hardness of the heated specimens both over their requirements. Increase section was found to be uniform and meeting the requirements showed vestigation of the microstructure and decarburization of the specimens showed that these characteristics depend on the initial condition of the street the results of its black annealing; owing to the extremely short duration heating in the new device, any marked additional surface decarburization is heating in the new device, any marked additional surface decarburization is heating in the maximum power requirement for the high-frequency-current precluded. The maximum power requirement for the high-frequency-current recrystallization of ball-bearing steel rods was 180-240 km. Therefore, since the beginning to the powered true was underutilized, a second similar installation was built to be powered true was underutilized, a second similar installation was built	
Card 2/3	

ACCISSION NR: AP5016010

similtaneously heated in pairs. The maximum power requirement for the operation
has made it passive mechanize the process and its hardlabor. In addition, it has resulted in improving the quality of metal,
reducing the expenditures on recrystallization per output unit, shortening the
production cycle (thus relieving two annealing furnaces accumodating as much
as 40 tons of metal at a time), and producing 79,400 rubles in annual savings.

Orig, art. has: 1 photograph.

ASSCCIATION: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical
Plant)

SUFMITTED: OO ENGL: OO SUB CODE: MM, TO
NO REF SOV: OOO OTHER: OOO

CHIKINA Je I. pomeshchnik epidemiologa (Moskva) Role of sanitation feldshers in foci of intestinal infection.
Fel'd. i akush. 22 no.5:22-24 My '57. (MIRA 10:6)
(DYSERTERY)

BELYAKOV, P.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;

GUREVICH, G.M.; GORBUNOVA, P.I.; KOHNOV, A.S.; KALANTAROVA, M.V.;

KASHIRSKIY, A.Ye.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI—

CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;

SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;

EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE—

CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; SHUKOV, I.V.; ZIMIN,

D.A.; IVANNIKOV, A.Ye.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,

A.F.; SEREZHNIKOV, V.K.; SEMIGHASOV, M.D.; SOKOLOV, A.V.; STEPANOV,

V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;

CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;

OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,

I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;

VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;

BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;

VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;

KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan', Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon.
(Astrakhan Province--Economic conditions)

USSR/Diseases of Farm Animals. Non-Contagious Diseases.

R-2

Abs Jour

: Ref Zhur-Biol., No 18, 1958 83568

Author

Sirotkin, V. A. Chikirda, I. V.

Institute

: Leningrad Veterinary Institute

Title

Certain Hepatic Diseases of Alimentary Origin in

Cows, and Applied Prophylactic Measures,

Orig Pub

: Sb. rabot Leningr. vet. in-t, 1957, vyp. 16, 16-19

Abstract

: It is shown that prolonged feedings of large quantities of concentrates to cows which obtain too little roughage in their diets, quite often causes development of hepatic diseases (such as amyloidosis, fatty and parenchymatous degeneration). The clinical symptoms of the disease are: poor state of general health, loss of appetite, apathy, decreased milk yields. The animals hair becomes dull and rumpled. Sometimes, increase of body temperature occurrs, and hyperemia and jaundice of the conjunctive are present.

Card 1/2

31

USSR/Diseases of Farm Animals. Non-Contagious Diseases. R-2

Abs Jour : Ref Zhur-Bibl., No 18, 1958, 83568

Abstract: Rumination is lethargic, slow, and of short duration; gastric peristalsis is weakened. The area of pepatic dullness is enlarged. Autopsy reveals that the liver is enlarged, clay-colored and flabby. Biochemical examinations of the blood show a sharp decrease of carotene and of organic phosphorus contents. Among prophylactic measures correct combinations of roughage and concentrated feeds are of great importance. Also important are sufficient quantities of vitamins and mineral salts in the animals diet.—I. Ya. Panchenko

Card 2/2

CHIKIRDIN, B. G.

Calculation of X-ray screening grids. (Strotoscopic effect in grids with movable rasters). Nov. med. tekh. no.2:15-24 '61. (MIRA 14:12)

1. Gosudarstvenyy nauchno-issledovateliskiy rentgeno-radiologicheskiy institut.

(I\_RAYS\_\_EQUIPMENT AND SUPPLIES)

SARIKOV, A.A.; CHIKIRDIN, E.G.

Clinical and physical comparison of large-photograph fluorography and reentgenography of the thoracic organs and kidneys. Vest. rent. i rad. 39 no.5:47-52 S-0 164. (MIRA 18:3)

1. 2-ya kafedra rentgenologii i meditsinskoy radiologii (zav. - prof. Yu.N. Sokolov) TSentral'nogo instituta usovershenstvovaniya vrachey i Gosudarstvennyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya RSFSR, Moskva.