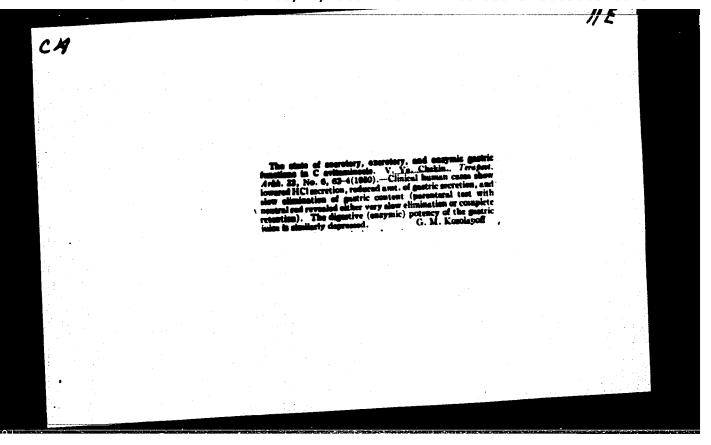
CHEKIN, V.YAZ

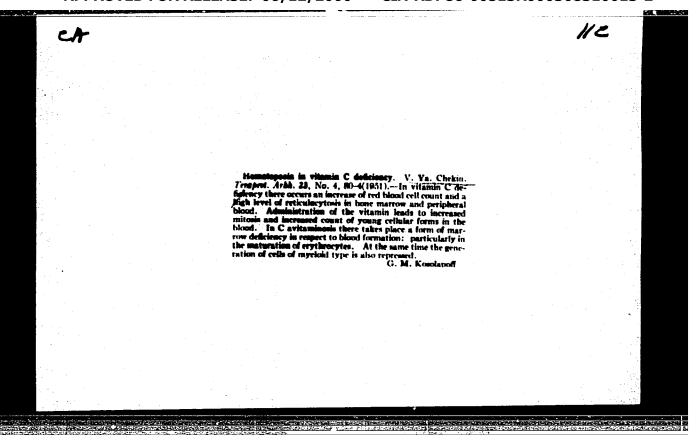
37660 Dwa slucheya anginozno- nekroticheskikh porazhehiy polosti rta i zeva pri c-avitaminoze. vestnik otorinolaringologia. 1949. No. 6. s. 61-63

SO: Letopis' Zhurnal'nykh Statey vol. 37. 1999

38353 CHEKIN. V. YA.

Iskhod gematom posle ushibov pri gipovitaminome S. Sov. Meditsina, 1949, No 12, s. 31-32





CHEKIN, V. Ya.

Ascorbic acid content in gastric juice. Klin. med, Moskva
29 no.8:39-41 Aug 1951. (CLML 20:11)

1. Candidate Medical Sciences.

"Supply of Vitar ulation of Pola; "Prirods" Vol X) Meat and int or in meat, 12-22 r the liver, 81-14 the meat of the 181 mg in blood of mg in blood of cati Population of explanation of explanation of explanation of explanation of cath than those of the planation of the polarity of Vitamin (C than those of C than those of C.	Ī
"Supply of Vitamins Oct 51 "Supply of Vitamin C in the Regular Diet of the Population of Polar Regions," V. Ya. Chekin "Priroda" Vcl XXXIX, Mo 10, pp 53 Meat and int organs of reindeer contain considerable ant of Vitamin C: there are 4.2-12 mg% of Vitamin C in meat, 12-22 mg% in heart tissue, 60-137 mg% in the liver, 61-120 mg% in brain tissue, 8-25 mg% in the east of the tongue, 42-93 mg% in kidneys, 74-181 mg% in lung tissue. Blood of reindeer contains 0.57-2.06 mg% of Vitamin C as compared with 0.7-3.7 mg% in blood of cattle (V. M. Bukin) and 0.61-2.1 mg% in blood of cattle in polar regions (V. Ya. Chekin). Fopulation of extreme Morth thus gets sufficient supply of Vitamin C by consuming fresh raw meat. This was not generally understood hitherto, because meat and int organs of cattle contain much less Vitamin C than those of reindeer, caribou, and seals. 177564 101 In the contain the contain much less Vitamin C than those of reindeer, caribou, and seals.	The second secon

CHEKIN, V.Ya.

Prevention of scurvy in extreme north. Sovet. med. No. 2:28-29 Feb 52. (CIML 21:5)

1. Candidate Medical Sciences. 2. Komi ASSR.

CHEKIN, V. Ya.

Evaluation of vascular tonus in electroshock therapy. Zh. nevropat. psikhiat., Moskva 52 no. 3:27-29 Mar 1952. (CLML 22:1)

1. Candidate Medical Sciences. 2. Of the Central Hospital-Polyclinic Amalgamation (Head -- Ye. K. Butko), Vorkuta, Komi ASSR.

	3É-77		
	Chekin, V. I K ropigan a sidenti meteorologische influence of influencial factors on vascular to ce. 73. Jan. Feb. 1953. 6 refs. DLC—The network to the influence of atmospheric pressure upon vascular to the pressure of 512 males in a northern region during sensons mm a day. Blood pressure was found to vary with chain from was greatest in diseasoft pressure. At an atmospheric mass raised in 5 8°, of the cases at \$4.2 atmospheric pressure was raised in 5 8°, of the cases at \$4.2 atmospheric pressure was raised in 5 8°, of the cases at \$4.2 atmospheric pressure was raised in 5 8°, and 197. As the control of the cases at \$4.2 atmospheric pressure. Blood pressure of 1. D.	There's distinct to please of the same of	2
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CHEKIN, V.Ya.,

Requirements and methods of administration of vitamin C. Medych. Zhur.24 no.1:94-98 '54. (MLRA 8:10)

1. TSentral'na likarnya M. Vorkuta, Komi ARSR. (VITAMIN C. requirements & admin.)

CHEKIN, V. YA. USSR/Botany

Card 1/1

Author

Chekin, V. Ya.

Title

: Vitamin-carriers of the tundra

Periodical

Dokl. AN SSSR, 96, Ed. 2, 383 - 385, May 1954

Abstract

The quality of vegetables grown near the north pole region (in tundras) is not inferior to the quality of vegetables grown in more southern latitudes. On the contrary, tundra grown vegetables contain more vitamin C than other vegetables. Practical utilization of tundra grown plants rich in vitamin C for medicinal purposes is perfectly feasible. The collection and preparation of materials are not complicated. Of greatest importance is the drying of leaves because upon the drying depends the percentage of loss and preservation of the ascorbic acid. The drying of leaves should be carried out at a moderate temperature of 50 - 60°. Five USSR references. Tables.

Institution

.....

Presented by :

Academician A. L. Kursanov, February 27, 1954

Translation - TI42 R-

CHEKIN, V.Ya., doktor meditsinskikh nauk

Vitamin C metabolism in injuries. Sov.med. 19 no.4:70-71 Ap '55.

1. Iz bol'nitsy Vorkuty Komi ASSR.

(VITAMIN C, metabolism,
 in trauma)

(WOUNDS AND INJURIES, metabolism in,
 vitamin C)

CHEKIN, V.Ya., doktor meditsinskilth nauk (g. Vorkuta, Komi ASSR, Krashoarmeyskaya ul., d. 15, kv. 4)

The problem of cavernotomy. Vest.khir. 75 no.3:20-25 Ap *55.

(MIRA 8:7)

1. Is TSentral'noy bol'nitsy Vorkuty (glavnyy vrach- V.Ya.Chekin).

(TUBERCULOSIS, FULMOMARY, surgery,
cavernotemy)

CHEKIN, V.Ya., doktor meditsinskikh nauk (Vorkuta, Komi ASSR)

Gertain phases of gastric function in vitamin G insufficiency.
Terap.arkh. 28 no.2:81-85 '56. (MLRA 9:7)
(GASTRIC JUICE,
secretion in scurvy (Rus))
(SCURVY, physiology.

gastric secretion (Rus))

CHEXIN, V.Ya., doktor meditsinskikh nauk.

Some results of extrapleural pneumothorax. Probl. tub. 34 no.1: 30-32 Ja-F '56 (MLRA 9:5)

1. Is TSentral'noy bol'nitsy Vorkuty (glavnyy vrach V.Ya. Chekin)
(PNEUMOTHORAX, ARTIFICIAL
extrapleural, results)
(COLLAPSE THERAPY
pneumolysis, results)

Chekin, ViYa.

CHMKIN, V.Ya.; AKIN'SHIMA, N.G. (Petrozavodsk)

Blood transfusion in tuberculosis. Sov.med. 21 Supplement:10 '57. (TUBERCULOSIS) (MIRA 11:2) (BLOOD--TRANSFUSION)

CHEKIN, V.Ys., doktor meditsinskikh nauk (Petrosavodsk)

"Man's acclimatization in the north" by G.M. Danishevskii.
Reviewed by V. IA. Chekin. Klin. med. 35 no.1:147-148 Ja '57
(MLRA 10:4)

1. Glavnyy terapevt Kirovskoy sheleznoy dorogi.
(ARCTIC REGIONS--CLIMATE)
(MEDICAL GEOGRAPHY)

CHEKIN, V.Ya., doktor med.nauk

Report on the First Conference on Problems in Climatopathology in the Climical Treatment of Cardiovascular Diseases. Terap.arkh. 31 no.11:90-93 N 559. (MIRA 13:3) (CARDIOVASCULAR SYSTEM--DISEASES) (CLIMATOLOGY, NEDICAL)

CHEKIN, V.Ya.

Relation between silicosis and tuberculosis. Arkh. pat. 22 no. 8:34-38 '60. (MIRA 14:1)

(TUBERCULOSIS) (LUNGS—DUST DISEASES)

CHEKIN, V.Ya.

Characteristics of vitamin C metabolism in inhabitants of the northern sone. Probl. Sev. no.6:120-129 62. (MIRA 16:8)

1. Upravleniye vrachebno-sanitarnoy sluzhby Oktyabr'skoy sheleznoy dorogi.

(ASCORBIC ACID)
(RUSSIA, NORTHERN-VITAMIN METABOLISM)

CHEKIN, V.Ya. (Leningrad)

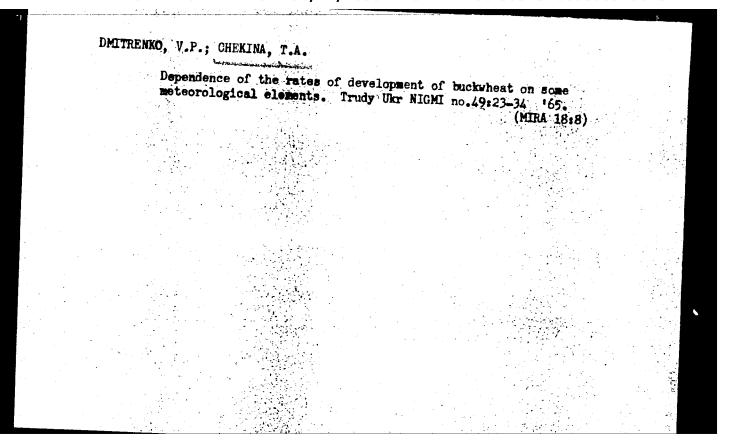
Report on the second scientific conference on problems of climatology in the clinical aspects of cardiovascular diseases. Vest. AMN SSSR 18 no.9:76-79 '63. (MIRA 17:9)

CHEKIN, V. Ya., doktor med.nauk.

Results of the Secon's Scientific Conference of the Institute of Therapy od the Academy of Medical Sciences of the U.S.S.R. on problems of climatopathology in the clinical aspects of cardiovascular diseases. Sov. Med. 27 no.7:151-153 J1-163.

(MIRA 16:9)

(CARDIOVASCULAR SYSTEM_DISEASES)
(CLIMATOLOGY, MEDICAL)



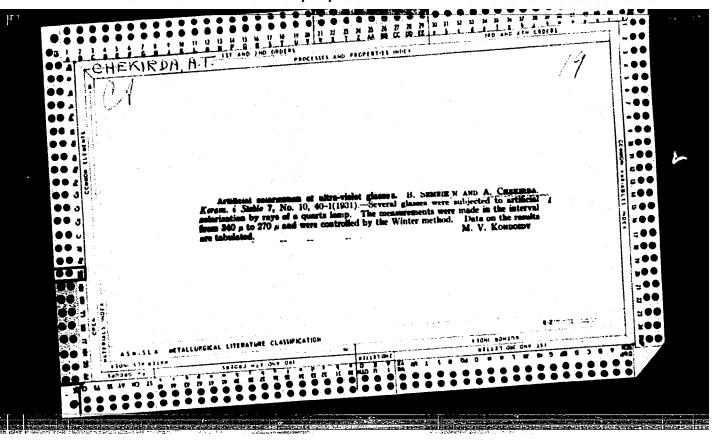
CHEKINI, V.; TITSKIY, M.

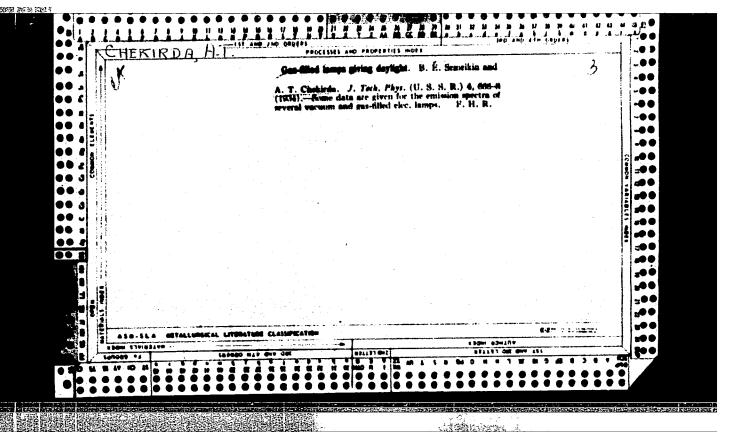
Semiautomatic line without converters for "Isin" processing of poultry. Mias.ind. SSSR 33 no.3:6-7 *62. (MIRA 15:7)

1. Poltavskiy mashinostroitel as savod myasnogo oborudovaniya.

(Poultry plants—Equipment and supplies)

(Assembly-line methods)





h1988. BARABASHEV, N. P., CHEKIRDA, A. T., FEDORETS, V. A.-- Ob osveshchennosti zemnoy poverkhosti primym i rassennym solnechnym. Ushen. Zapiski khar'k. Gos. un-ta im. Gor'kogo, T. XXVIII. Publikatsii Astron. Observatorii, t. VIII, 1948, S. 21-27
SO: Letopis' Zhurnal'nykh Statey. Vol. 47. 1948

CIA-RDP86-00513R000308310013-2"

APPROVED FOR RELEASE: 06/12/2000

BARABASHEV, N.P.; CHEKIRDA, A.T.

Red-, yellew-, green-, and blue-light spectrephetemetry of Mars.

Toir. Astron.ebsor. Enar.un. ne.9:3-28 My 152. (MIRA 9:4)

(Mars (Planet)) (Spectrephetemetry)

Brief news. Astron.tsir. no.133:12 Ja '53. (MIRA 6:6) (Planets)

CHEKIRDA, A.T.

Plenum of the Committee on Planetary Physics of the Astronomical Council of the Academy of Sciences of the U.S.S.R., held on June 8-10, 1953. Astron.tsir. no.140:21-22 Ag '53. (MLRA 7:1) (Astrophysics)

CHRIRDA, A.

Third plenary session on the physics of planets. Astron.tsir. no.161:21-24 J1'55. (MIRA 8:12)

(Planets)

CHEKIRDA, A.T.

Comparing the color and the luminosity ratio of different regions of the moon's surface with some terrestrial rocks. TSr.Astron.obser.

Khar.un. no.15:9-15 '56.
(Moon—Surface)

(MIRA 10:5)

BARARASHOV, N.P.; CHEKIRDA, A.T.

Gomparing the color and the luminosity ratio of different regions of the moon's surface with some terrestrial rocks. Astron. shur. 33 no.4:549-555 Jl - Ag '56. (MIRA 9:11)

1. Khar'kovskaya astronomicheskaya observatoriya. (Noon-Gurface)

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Resheting, Tech. Mo.: N. a. Andreas, researchers, ease reports are intended for scientists, researchers, ears engaged in developing standards, measures, and the various industries. The volume contains 128 reports on standards of measurements in resports were prepared by scientists of a forth of the Knaists tandards when it issertistist of the reports of the meaning instruments under the USSR Council of a fine pariodphicing instruments askered for the candards, and Measuring instruments and council of a fall-bino Scientific Research instruct which the control of the control of the candards, and the control of the candards, and the candards, and instruct of the control of the candards, and deaduring instruments), created [17]. Mondards scientific Research Institute of the Commission with priborov (Moscow State Institute of the Commission with priborov (Moscow State Institute of Measures ining instruments), october 1, 1955; wwill first and Measuring Instruments), and Militar of the commission with a moscow; Middin priborov (Mascow State Institute of Measures ining instruct of Measures ining instruct of Measures in Mondardsteening was 1 institute of Physicocenhical and Radionergineering of Physicocenhical and Radionergineering of Physicocenhical and Radionergineering of Mascow State Institute of Measures and Measuring Instruments); and Militar are no references. W. W. P. Pinkellahering are mentioned, There are no references, and Measuring instruments of Willing), Measures and Westering in the Physicocenhical Physical Physicocenhical Physical Physicocenhical Physical Physical Physical Physical Physical Physical Physical Physical Curves of Thermal Institute of Measures and Measuring Instruct of Measures and Measures of Measures and Measures of Measures of Measures of Measure	Additional Sponsoring 1stering principles of the	Agency: USSR, Komitet standartor, mer 1. Iborov.	
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AUTHOR:

Chekirda, A. T., Candidate of Physical and Mathematical Sciences SOV/30-58-8-21/43

TITLE:

From the Council of Astronomers (V astronomicheskon sovete)
Transactions of the Plenary Meeting of the Committee of
Planetary Physics (Plenum Komissii po fizike planet)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 8, pp. 113-114 (USSR)

ABSTRACT:

This plenary meeting was held in Khar'kev from May 20-22. It was attended by the astronomers of a number of observatories of the USSR, by representatives of the Council of Astronomers and by the Director of the Nanking Observatory Chzhan Yuychzhe. Results of observations of the surface of Mars and of the moon in 1956 were the subject of the reports. The following lectures were held:

V.V. Sharonov stated that the surface of Mars is darker and more red than corresponding samples from terrestrial deserts.

W.P. Barabashov discussed results of Mars photometry which were conducted by him in the Khar'kov observatory with the assistance of I.K. Koval'.

Card 1/4

SOV/30-58-8-21/43 From the Council of Astronomers. Transactions of the Plenary Meeting of the Committee of Planetary Physics

>) communicated some results of Mars photo-K.I. Kozlova Yu.V. Glagolevskiy | metry which was carried out by the Sektor astrobotaniki Akademii nauk Kazakhskoy SSR (Department of Astrobotany AS Kazakh USSR).

- A.N. Suslov spoke on the intensity of Callurius lines.
 N.P. Barabashov) reported on results and a controller and a
- V.I. Yezerskiy | obtained in the observatory of Crimea.
- A.T. Chekirda
- N.D. Kalinenkov reported on spectrophotometric measurements of details of the surface of Mars which were conducted in
- B.A. Bronshten reported on results of photographic photo-O.B. Rzhanitsyna metry of the bright region Argir on Mars.

- M.M. Butelava reported on the first utilization of electron-A.A. Kalinyak optical transducer in photographing Mars in the
- L.A. Kamionko J Pulkovo observatory.
- V.V. Sharonov reported on most recent Mars research in foreign countries.
- N.P. Barabashov spoke about problems and methods of lunar research.

Card 2/4

From the Council of Astronomers. Transactions SOV/30-58-8-21/43 of the Flanary Meeting of the Committee of Planetary Physics

- B.Yu. Levin spoke about results of the theoretical investigation of the thermal history of Mars and the moon.
- B. Yu. Levin spoke about the history of the motion of the moon and about geological properties of its material.
- V.V. Sharonov, Professor, read the paper by N.N. Sytinskaya on the development and the confirmation of the hypotheses concerning the nature of the surface layers of the moon.
- A.V. Markov reported on the equipment in Pulkovo for thermoelectrical temperature measurements of narrow strips of the surface of the moon.
- Yu.N. Chistyakov communicated the first results of research with this equipment.
- N.N. Kaydanovskiy spoke about prospects in the investigation of thermal radiation from the moon (based upon observations by Ye.K. Kokhan in the Abastuman 1 observatory).
- N.P. Barabashov reported on preliminary results of the in-
- I.K. Koval' vestigation of the polarization of the moon

Card 3/4

From the Council of Astronomers. Transactions SOV/30-58-8-21/43 of the Plenary Meeting of the Committee of Planetary Physics

> by means of light filters. Yu.N. Lipskiy spoke about the necessity of taking into consideration the variations in the degree and the direction of polarization of moon details, when they are spectrophotographed simultaneously.

V.G. Teyfel'

A.N. Sergeyeva

N.P. Barabashov V.I. Yezerskiy

V.A. Fedorets

T.A. Polozhentseva) reported on the determination of color contrasts on the surface of the moon by means of photographic spectrophotometry.

Card 4/4

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ChekiRdA, A. I.

PHASE I BOOK EXPLOITATION

SOV/4302

Akademiya namk SSSR. Komissiya po fizike planet

Izvestiya, vyp. 1 (News of the Commission on the Physics of Planets, No. 1) Khar'kov, 1959. 108 p. 1,000 copies printed.

Editorial Board: N.P. Barabashov, Academician of the Acedemy of Sciences Ukrainskaya SSR (Resp. Ed.); V.I. Yezerskiy, Candidate of Physics and Mathematics (Secretary); A.V. Markov, Professor; Yu. N. Lipskiy, Candidate of Physics and Mathematics; and A.T. Chekirda, Candidate of Physics and Mathematics; Ed.: D.A. Vaynberg; Tech. Ed.: A.S. Trofizenko.

FURFOSE: This publication is intended for astrophysicists and astronomers.

COVERAGE: This collection of articles constitutes the first issue of a new journal on problems in planetary physics. The first six articles discuss the surface features, polarimetry, and spectrophotometry of the Mocn. The remaining articles deal with the physics of Mars, Jupiter, and the asteroids. No personalities are mentioned. References accompany individual articles.

Card 1/3

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Sytinskaya, N.N. Probable Dimensions of the Ruggedness of the Microrelief of the Moon's Surface	81
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Koval', I.K. The Degree of Smoothness of the Martian Co. and Seas	ntinents 85
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AVAILABLE: Library of Congress	
Card 3/3	JA/dvm/mas 10-10-60

BARABASHOV, N.P.; KOVAL*, I.K.; CHEKIRDA, A.T.

Some results of the photometry of cloud formations on Mars.

Izv.Kom.po fiz.plan. no.2:36-40 *60. (MIRA 14:3)

(Mars. (Planet))

\$/751/61/000/008/001/005

AUTHORS: Barabashov N. P., Koval', I. K., Chekirda, A. T.

TITIE: Photometric Investigations of Mars in 1958.

SOURCE: Akademiya nauk SSSR. Komissiya po fizike planet. Izvestiya. no. 3.

Kharkov, 1961. 3 - 15.

TEXT: Data are presented on the distribution of brightness along the intensity equator and central meridian of Mars, obtained on the basis of photographic observations of the planet using optical filters. The emulsions and filters employed are listed, and the exposures stated. No tie-in was made with the sun, since the epxeriment was not aimed at obtaining a detailed list of absolute brightnesses. All negatives were calibrated with a tubular photometer and measured with a MF-2 microphotometer. Data on the contrast between the bright and dark regions, and on the variation of the brightness of the northern and southern polar regions of Mars, are tabulated. Except for one longitude region, satisfactory correlation is observed between the "red" and "blue" curves, and the lack of correlation in the particular region is attributed to the specific distribution of the energy in the spectrum of the corresponding seas

Card 1/2

Photometric Investigations of Mars....

S/751/61/000/008/001/005

of Mars, with the "blue atmospheric haze playing a secondary role. There are 5 tables.

ASSOCIATION: Astronomicheskaya observatoriya Khar'kovskogo universiteta (Astronomical Observatory of the Kharkov University)

Card 2/2

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S/035/62/000/009/002/060 A001/A101

AUTHOR:

Chekirda, A. T.

TITLE:

The Sixth plenum of the Commission for the Physics of Planets at the

Astronomical Council, AS USSR

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 9, 1962, 7,

abstract 9A33, ("Izv. Komis. po fiz. planet", 1961, no. 3, 96 - 99)

TEXT: The plenum of the Commission was held at Khar'kov on October 24 - 27, 1960. The reports dealt with the results of processing the first photographs of the Moon's back side (N. P. Barabashev, Yu. N. Lipskiy, D. Ye. Shchegolev, etc.), results of lunar studies by radio methods (N. L. Kaydanovskiy, A. Ye. Salomonovich), photometric, polarization and other methods (V. V. Sharonov, V. G. Teyfel', V. P. Dzhapiashvili, etc.), as well as theoretical investigations (B. Yu. Levin, Ye. L. Ruskol). Several reports dealt with studies of Mars, Venus and Saturn.

المرابعة فلججتم أأناه والمراج المتعلق والمشتري في المستريد والمساري المراج المر

L. R.

[Abstracter's note: Complete translation]

Card 1/1

CHEKIRDA, A.T.

Plenum of the Committee on Planetary Physics of the Astronomical Council of the Academy of Sciences of the U.S.S.R. Astron.shur. 38 no.3:571-573 My-Je *61. (MIRA 14:6)

Chetinda, A. Z.

AUTHOR: Chekirda, A. Z.

49-7-12/14

TITLE: On the hydrodynamic theory of the centres of activity in the atmosphere. (K gidrodinamicheskoy teorii tsentrov deystviya atmosfery).

PERIODICAL: Izvestiya Akademii Nauk, SSSR, Seriya Geofizicheskaya, 1957, No.7, pp.954-958 (USSR)

ABSTRACT: From the point of view of meteorology, the steady state disturbances of the zonal circulation, the "centres of activity" of the atmosphere, are of interest which occur as a result of non-uniform heating of the mainlands and the oceans during summer or winter. The hydrodynamic theory of centres of activity was first expounded by Ye. N. Blinova (Ref.1); in solving the problem of long term forecasting of the pressure, temperature and wind at a medium level, Blinova also solved the steady state problem. One of the equations is that of changing the speed vortex of Friedman. projected onto a vertical axis. The solution is sought for a west-east transfer in the form of developing of the function of the current into series by means of spherical **Card 1/2** functions, assuming that the pressure, temperature and density are independent of the altitude. However, one of the important features of the atmosphere is that these

49-7-12/14

On the hydrodynamic theory of the centres of activity in the atmosphere. (Cont.)

values are dependent on the altitude. In later work (Ref.2) Blinova reduced the problem to solving the following equation:

 $\mathbf{a}_{1}\Delta_{\omega} + 2\omega\varphi = \mathbf{F} (\mathbf{0},\lambda)$

Card 2/2

and the solution of this equation was applied by the author of this paper for calculating the atmospheric pressure at sea level. The results of his calculations are plotted in the chart, Fig.2, p.957, and it can be seen that they are in good agreement with the real distribution plotted in the chart, Fig.1 and this indicates that, in spite of the applied simplifying assumptions, the calculations can be of interest. There are 2 figures and 2 Slavic references.

SUBMITTED: January 22, 1957.

ASSOCIATION: Central (Weather) Forecasting Institute.

(Tsentral'nyy Institut Prognozov).

AVAILABLE: Library of Congress

CHEKIRDA, A.Z.

Considering the relationship between the speed of the zonal stream and latitude in numerical prediction of the current function field at a mean atmospheric level. Izv. AN SSSR. Ser. geofiz. no.ll: 1692-1705 N *61. (MIRA 14:11)

ACCESSION NR.: AT4034676

8/0000/64/000/000/0075/0098

AUTHOR: Chekirda, A. Z.

TITLE: Forecasting the heights of an isobaric surface of the mean level of the atmosphere, taking into account the real profile of sonal flow velocity

SOURCE: AN SSSR. Ob"yedinenny"y meteorologicheakiy vy"chialitel'ny"y taentr. Gidrodinamicheakiy dolgosrochn"y prognoz pogody" (Hydrodynamic long-range weather forecasting). Moscow, Isd-vo "Nauka", 1964, 75-98

TOPIC TAGS: meteorology, sonal flow, flow velocity profile, atmospheric pressure, atmospheric neutral wave, weather forecasting, long-range weather forecasting

ABSTRACT: The principal content of this paper is an investigation of the influence of the real profile of zonal flow on the development of processes at the mean: level of the atmosphere. In this study it was found that pressure formations having a greater extent along a meridian than along a circle of latitude are deformed slowly by zonal flow and in the course of a certain fixed time, almost without changing configuration, are carried along in this flow. Pressure formations having a greater extent along a circle of latitude than along a meridian do not persist long and under the influence of zonal flow are broken down into small centers. The lifetime of pressure formations can be determined qualitatively Cord 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2"

جي النواز العلاي الأيفانية في النائل النائلية المحددة في الناز والذي يوري مريز ما النائل المنظمات

ACCESSION NR.: AT4034676

from the configuration of a particular pressure formation. The character of the zonal profile determines the rate of movement of pressure formations. Pressure formations move at different velocities in dependence on the character of the zonal profile. The exchange of energy between waves of different kinds is related closely to the character of the zonal profile. The stronger the curvature of the zonal profile, the stronger is the energy exchange. Neutral waves are not present in the atmosphere when there is a real zonal profile. An allowance for the real zonal profile in numerical forecasting of nonzonal deviations of the heights of the 600-mb surface leads to a substantial improvement in the results. The problem of forecasting the zonal profile therefore is considered of the greatest importance. Orig. art. has: 18 formulas, 21 figures and 4 tables.

ASSOCIATION: Ob"yedinenny"y meteorologicheskiy vy"chislitel'ny"y tsentr AN SSSR (Joint Meteorological Computation Center AN SSSR)

SUBMITTED: 22Nov63 DATE ACQ: 16Apr64 ENCL: 00

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1 11349-65 PSP(h)/PSS-2/EWT(1)/PS(v)-3/FCC/EWG(v) Po-4/Pe-5/Pq-4/Pae-2/ P1-4 TT/GW 8/2531/64/000/166/0189/0202 ACCESSION ER: AT4046060 AUTHOR: Musayelyan, Sh. A.; Chekirda, A. Z. TITLE: Numerical interpretation of cloud data transmitted by meteorological satellites SOURCE: Leningrad. Glavnaya geofisicheskaya observatoriya. Trudy*, no. 166, 1964. Voprosy# interpretatsii danny#kh meteorologicheskikh sputnikov (Problems in the interpretation of data of meteorological satellites), 189-202 TOPIC TAGS: vertical air current, cloud distribution, meterological satellite cloud data ABSTRACT: A mathematical method is proposed for determining the field of vertical currents from cloud distribution data obtained from meteorological satellites. The method is based on the premise that the decisive factor in the formation of clouds is the presence of vertically rising currents, and that in the presence of descending currents, no new clouds are formed and those already in existance start to Cord 1/2

ACCESSION NR: AT4046060 break up. The accuracy of the results obtained with the proposed method depends not only on the validity of the method but also on the quality and quantity of the initial data used to compute the basic values of the coefficients of linear relationships. Orig. art. has: 13 figures and 9 formulas. ASSOCIATION: Glavneya geofizicherkaya observatoriya (Main Geophysical Observatory) SUBMITTED: 00 ATD PRESS: 3118 ENCL: 00 SUB CODE: ES NO REF SOV: 001 OTHER: 000	CCESSION NR. ATLONGO			7 🚦
method depends not only on the validity of the method but also on the quality and quantity of the initial data used to compute the basic values of the coefficients of linear relationships. Orig. art. has: 13 figures and 9 formulas. ASSOCIATION: Glavnaya geofizicheakaya observatoriya (Main Geophysical Observatory) SUBMITTED: 00 ATD PRESS: 3118 ENCL: 00)60		1
Observatory) SUBMITTED: 00 ATD PRESS: 3118 ENCL: 00	nethod depends not only uality and quantity of the coefficing of the coefficient of the coefficie	ly on the validity of the moof the initial data used to lents of linear relationshiples.	ethod but also on the compute the basic ps. Orig. art. has:	
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FSS-2/EWT(1) DD/CD L 10970-67 SOURCE CODE: UR/0000/66/000/000/0214/0215 ACC NR. AT6036587 AUTHOR: Kolosov, I. A.; Chekirda, I. F.; Lebedev, V. I.; Khlebnikov, G. F.; Kas'yan, I. I. ORG: none TITLE: Rotation tests as a method of detecting covert forms of motion sickness under conditions of weightlessness Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 214-215 TOPIC TAGS: weightlessness, biologic acceleration effect, coriolis acceleration, motion sickness, diagnostic medicine, vestibular analyzer ABSTRACT: Some Soviet cosmonauts (G. S. Titov, V. V. Nikolayeva-Tereshkova, K. P. Feoktistov, B. B. Yegorov) with adequately high vestibular analyzer resistance to motion sickness experienced vestibulo-autonomic discomfort under conditions of prolonged weightlessness. In this connection, the problem of exposing people suffering from vestibular disorders assumes the greatest significance. An attempt to identify latent forms of motion sickness more completely was undertaken.

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ACC NR. AT6036587

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The methodological approach consisted of a modified Barani rotational test (10 rotations for 10 sec) during horizontal flight in a jet aircraft and during conditions of weightlessness (25 sec). During the first stage, the rotational test was conducted during the five sec after the beginning of stabilized weightlessness. In the second stage, the same people were rotated at the beginning of the transition period from 2 G to 0 G for 5 sec and then for an additional 5 sec during the beginning of weightlessness.

Examinations were conducted on male subjects aged 23—45 with high vestibular resistance to motion sickness under terrestrial conditions and high tolerance of weightlessness during flights.

Three basic components of the vestibular analyzer were studied:

- 1. somatic (duration of postnystagmus)
- 2. autonomic (pulse rate, perspiration, skin color)
- 3. sensory (subjective illusions, illusions of counterrotation).

It was revealed that 18.2% of the subjects had latent forms of motion sickness during rotational tests under conditions of stabilized weightlessness. In this group, the duration of counterrotational illusion was prolonged, as was postrotational nystagmus by 2—5 sec compared to horizontal flight

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data, paleness or redness of facial skin was apparent, and moderate hyperhydrosis was noted as were illusions of changed body position with the eyes closed. Increased salivation and worsened subjective feelings were also noted.

Vestibulo autonomic discomfort was not observed in the remainder of subjects. The duration of counterrotational illusion and postrotational nystagmus was shortened by 4—6 sec in the majority of subjects, while in others—these indices were not shortened.

At the beginning of rotation in the period of transition from positive G to weightlessness during the second stage, tolerance of angular accelerations during stabilized weightlessness revealed 22.2% more cases of latent motion sickness. In these subjects, the duration of counterrotational illusions increased as compared to their duration during stabilized weightlessness; pronounced paleness of facial skin, lip cyanosis, pronounced, general hyperhydrosis, nausea, hypersalivation, and discomfort in the area of the stomach were observed. The termination of nystagmus could not be fixed relative to the onset of accelerations following weightlessness.

In the opinion of the authors, symptoms of motion sickness during ro-

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ACC NR: AT6036587

tational tests under conditions of stabilized weightlessness were found for the following reasons: first, under conditions of weightlessness the function of the otolithic component of the vestibular apparatus was modified due to the unusual position of the otoliths (floating state) which led to increased sensitivity to angular accelerations during rotation of the chair; second, manifestations of Coriolis accelerations as a result of Barani chair rotation during parabolic flight.

In those cases when the rotational test was completed in the period of transition from acceleration to weightlessness, additional adequate irritation of the otoliths associated with a sharp switch from a "plus" stimulus to a "minus" took place, facilitating the more rapid accumulation of Coriolis accelerations.

Therefore, the use of a modified rotational test under short-term weightlessness conditions reveals latent forms of motion sickness even in people with high resistance and can be used for prognestic purposes.

Use of the rotational test in the period of transition from acceleration to weightlessness reveals latent forms of motion sickness most effectively.
[W.A. No. 22; ATD Report 66-116]
SUB CODE:, OK / SUBM DATE: OOMay66

L 43979-66 EWT(1)/FSS-2SOURCE CODE: UR/0177/66/000/008/0060/0062 ACC NR: AP6029423 AUTHOR: Khilov, K. L. (Professor); Kolosov, I. A. (Major, Medical corps); Lebedev, V. I. (Lieutenant colonel, Medical corps); Chekirda, I. F. (Senior lieutenant, Medical corps) ORG: none TITLE: Changes in acceleration sensitivity thresholds under conditions of brief weightlessness SOURCE: Voyenno-meditsinskiy zhurnal, no. 8, 1966, 60-62 TOPIC TAGS: weightlessness, acceleration biologic effect, space physiology, human physiology, acceleration tolerance, vertibular training, vestibular analyzer ABSTRACT: A preliminary step of this investigation involved determining a trend in acceleration sensitivity shifts during brief weightlessness (parabolic flights). After determining the sensitivity of the vestibular analyzer, the following method of judging the sensitivity of the horizontal semicircular canals to angular accelerations was employed: A subject was fixed in a Barany chair with head inclined forward 30° and eyes closed. At first, the chair was rotated at a rate of 180° per 20 sec. If a sensation of rotation did not occur, the chair was then rotated through 360° for 20 and 15 sec with a 3-5 min interval. Only positive acceleration sensitivity thresholds were considered and stopping sensations were neglected. The chair was UDC: 612.886-06:629.19. Card 1/3

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ACC NR: AP6029423

rotated manually by a physician. In a few cases, electronystagmograms were recorded. When a subject sensed acceleration, he informed the physician who fixed the onset time with a stop watch. Background data were gathered during normal horizontal flight Rotation commenced 5 sec after the beginning of weightlessness. The duration of weightlessness periods was 24-26 sec. Before and after weightlessness, head-pelvis forces of 1.8 and 2.0 G lasting 10-12 sec were experienced. Eleven males aged 23-45 were studied and a total of 24 experiments were run. Of this number, three subjects were exposed to weightlessness once, five were exposed twice during a single flight, and six were exposed from two to six times in the course of 2-3 flights. Analysis of the data from weightlessness runs revealed a shift in the threshold sensitivity of the horizontal semicircular canals to angular accelerations. In every case there was an increase in the duration of the rotational time necessary to obtain a threshold sensation which indicated decreased excitability of canal receptor formations. In 4 subjects, rotation sensation occurred at the 15th and 16th sec at a rate of 180° per 20 sec in horizontal flight; at the same rate during weightlessness no threshold sensation was observed. In one subject, a rate of 360° per 20 sec brought on a rotational sensation after 12 sec while during weightlessness no sensation occurred. In the remaining subjects, the time necessary to induce a manifestation of rotational sensation during weightlessness was increased by 3-11 sec compared to control data taken during horizontal flight. The average elapsed time necessary to evoke threshold rotational sensation increased by 1.7 compared with average background (horizontal flight) values. It was concluded that brief weightlessness following positive accelerations leads to an increase in acceleration sensitivity thresholds. These increases are apparently due to the elimination of the

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activating influer as a result of a	nce of otoliths 'loss" of otoli	on sensory	reactions	of the	semici	rcular	canal	s [CD]
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3,1550 (1041,1057)

AUTHORS: Barabashov, N.P., Koval', I.K., Chekirda, I.T.

TITIE: Some results of photometry of cloudy formations on Mars

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 10, 1961, 66, abstract 10A457 ("Izv. Komis. po fiz. planet", 1960, no. 2, 36-40)

TEXT: Blue clouds observed mainly in the equatorial zone of the planet are described on the basis of photographs taken in 1958 by means of a 10^{8} reflector of the Khar'kov Observatory with the equivalent focus equal to 15.3 m in ultraviolet ($\lambda 3600$) and blue ($\lambda 4200$) portions of spectrum. The existence of a photometric scale makes it possible to obtain the curves of brightness distribution along the equator of intensity, when the clouds are present and at their absence. The analysis of materials has shown that the presence of clouds on the disk and terminator does not depend on the albedo of the underlying solid surface of Mars. The value of cloud-background contrasts, and the albedo of the clouds on the terminator are higher than on the disk. On an average, the bright-

Card 1/2

Some results of photometry ...

ness of clouds exceeds the background brightness by 14%. On assumption that the clouds studied are analogous, in their nature, to cirrus clouds of the Earth's atmosphere, their thickness was estimated to be 3 - 6 m.

I. Lebedeva

[Abstracter's note: Complete translation]

Card 2/2

EPA/EPR/EPF(e)/EWT(m)/EDS AFFTC/AFGC Pas-4/Ps-4/Pr-4 L 17448-63 BW/RM/WW/JW/DE/JWD/H s/0207/63/000/004/0099/0101 ACCESSION NR: AP3006130 AUTHOR: Bobolev, V. K. (Moscow); Chekirda, L. F. (Moscow); Chuyko, (Moscow) TIME: Transition to detonation during normal burning of porous explosives at slightly increasing pressure SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1963, 99-101 TOPIC TAGS: solid explosive, secondary explosive, combustion, deflagrationdetonation transition, hexogen, solid-propellant detonation ABSTRACT: Experiments have shown that the pores on the burning surface of melting secondary explosives are covered by the melt only at comparatively low pressures. When the pressure reaches a critical value (P*), the surface of the melt is disrupted and intermediate gaseous combustion products from the dark zone penetrate into the pores, where they cause thermal decomposition of the explosive. After an induction period the intermediate products enriched by the thermal decomposition products undergo self-ignition followed by detonation. Card 1/3

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L 17448-63 ACCESSION NR: AP3006130 2

Flames inside the pores are not observed when the powe walls are coated with an inert material. Experiments with pressed hexogen of $160-250-\mu$ particle size and 0.7 density were conducted in a manometric bomb equipped with high-and low-speed photoregisters and with piezoelectric pressure pickups for recording the pressure in the bomb and in the pores. The pressure $P_{\#}$ can be calculated by the formula

$$P_*^n \leqslant \frac{12\delta\chi(\rho - \rho_*)}{(1 - \delta)D\rho};$$

where ρ_{w} is the density of the melt, ρ is the density of the solid explosive, γ is the thickness of the molten layer at 1 atm, and D is the particle diameter, P_{w} was about 3 atm for the hexogen tested. A plot of detonation pressure (P) versus the pressure-increase rate obtained with hexogen, specimens 40 mm high and 8 mm in diameter showed that the characteristic time constant, the time required for development of self-ignition, is about 0.7 sec. Four combustion regimes (normal, convective, explosive, and detonative) are defined by inequalities in terms of the rate of gas penetration into the porcs and the

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low velocity of the comb	ustion products. "The authors the evaluating certain problems." Ori	nk I. A. Karpukhin lg. art. has: 5	
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L 16204-63

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ACCESSION NR: AP3006345

AUTHOR: Margolin, A. D. (Moscow); Chekirda, L. F. (Moscow); Chuyko S. V. (Moscow)

TITLE: The combustion stability of liquid explosives at constant pressure

SOURCE: Inzhenerny*y zhurnal, v. 3, no. 3, 1963, 460-467

TOPIC TAGS: combustion stability, combustion instability, liquid

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TOPIC TAGS: combustion stability, combustion instability, liquid explosive, propellant, stability analysis, liquid fuel, nitroglycol, instability mode, combustion

ABSTRACT: A comprehensive theoretical and experimental study of combustion stability is presented. An analysis is made of combustion in an infinite vessel based on L. D. Landau's general theory on the combustion stability of liquid explosives (K teorii medlennogo goreniya. Zh. eksperim. i teoret. fiziki, v. 14, no. 4, 1944), and the following formulas are derived for determining the dimensionless wave number of dangerous oscillations (x_n) (those which develop most rapidly) and the time required for their development (τ_n) :

e required ... $(x_n = 4/3n^2; \text{ and } 1/\tau_n = 1.5 (gn^3/J_1)/\rho_1\rho_2^*,$

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L 16204-63 ACCESSION NR: AP3006345

n σ $(J/J_1)\sqrt{\frac{\rho_1^*}{\rho_2}}$, $J = \rho_1 v_1$ (the mass burning rate),

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and J. = ptvt (the critical mass burning rate). The region in which oscillations are amplified was defined by inequalities in terms of n and x. The values of the range of n were calculated for nitroglycol and tabulated in the range of n = 1 - 2. A plot of x versus n is shown in Fig. 1 of the Enclosure. Experiments with nitroglycol were conducted in tubes. (1.5-10mm diameter) and in rectangular vessels (2 x 10 mm). To secure uniform ignition along the entire surface, nitroglycol was ignited by a layer of steadily burning ethylnitrate placed over the nitroglycol and ignited by a nictrome wire. The time of development of unstable combustion of nictroglycol was less than 0.1 sec. The effects of the tube diameter and the shape of the vessel on combustion stability were also studied. Some of the results are shown in Fig. 2 and Fig. 3 of the Enclosure. Fig. 3 shows that in tubes of small diameter the largest possible perturbations will be the most dangerous while in tubes of large diameter the most dangerous will be perturbations having the highest values of i. Further analysis yielded criteria for the effect of

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gravitation on combustion stability. Stability at zero gravity is discussed. On the basis of photographs obtained by high-speed frame photography, it is shown that flame pulsations arise as a consequence of perturbations of the liquid surface. Both radial and tangential instability modes were distinguished. The wave length of the oscillations was evaluated as 2-8 mm, which lies within the range of dangerous oscillations predicted by theory. Measurements of flame pulsations indicated that their frequency increases somewhat with increasing pressure. Photographs of nitroglycol dyed with nigrosine showed helical traces and cellular patterns resembling those observed with spinning detonation waves. It may be assumed that the dimension of the surface perturbation during unstable combustion equals the dimension of the most dangerous oscillation predicted by stability analysis. Orig. art. has: 6 figures and 17 formulas.

ASSOCIATION: none

SUBMITTED: 160ct63 DATE ACQ: 27Sep63

SUB CODE: AS, PR NO REF SOV: 004

OTHER: 001

Card 3/63

CHEKIROV, T.Ch.

Undulant variations of intracisternal pressure in the goat udder.

Izv. AN Kir. SSR, Ser. biol. nauk 3 no.2:83-90 '61. (MI:14 14:12)

(UDDER)

CHEKIROV, T.Ch.

Effect of acetyleholine on the motor function of the mammary gland in goats. 1zv. AN Kir. SSR. Ser. biol. nauk 3 no.2:91-96 '61. (CHOLINE) (UDDER_INNERVATION)

CHEKLINA, Ye.A.

Characteristics of rocks in the Murgab Delta from the point of view of engineering geology. Vop. gidrogeol. i ingh. geol. no.17: 86-91 159.

(Murgab Delta region (Turkmenistan)--Rocks)

(Murgal Valley (Turkmenistan)--Rocks)

DUBROVKIN, V.L.; CHEKLINA, Yo.A.

Characteristics of Quaternary sediments in the central part of the Amu Darya Valley (from Kelif station to Deynau) from the point of view of engineering geology in connection with the construction of irrigation systems. Vop.gidrogeol.

i inzh.geol. no.19:59-71 '61. (MIRA 15:2)

(Amu Darya Valley—Engineering geology)

(Amu Darya Valley—Irrigation)

VEREYSKIY, N.G.; DUBROVKIN, V.L. [deceased]; PAVLOV, B.S.; CHEKLINA, Ye.A.

Principles of mapping on a scale of 1:50,000-1:25,000 for purposes of engineering geology in connection with industrial urban, rural, and resort construction. Sov. geol. 6 no.10: 109-113 0 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

DUBROVKIN, V.L.[deceased]; CHEKLINA, Ye.A.; VINOGRADOVA, Ye.A.; TSAREVA, A.M.; POPOV, V.V., prof., red.

[Engineering geology characteristics of loess in the Kursk Magnetic Anomaly] Inzhenerno-geologicheskaia kharakteristika lessovykh porod territorii KMA [By] V.L.Dubrovkin i dr. Moskva, Nedra, 1964. 198 p. (MIRA 18:2)

1. Moscow. Vsesoyuznyy nauchno-iseledovatel'skiy institut gidrogeologii i inzhenerncy geologii.

CHEKLOVICH, V.D., and SOLOV'YEV, M.N.

Age of the Metamorphic Rocks in the North Nura-Tau Range (resume in Uzbekistani). Dokl. AN Uzb. SSR, No 8, 1953, 28-29

The metamorphic rocks, considered early paleozoic and familiar from the many pits dug in the north slope of the Nura-Tau, are represented by quartz-mica, chlorite-epidote, silicified and encrusted rocks, quartz-actinolite hornstones (charts), paragneiss, etc. They are observed in a definite zone of action of small intrusives and hydrothermal processes. (RZhGeol, No 1, 1954)

SO: W-31128, 11 Jan 55

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2

CHEKLYUK, E. F.

Sub.ject : USSR/Engineering

Card : 1/1

: Cheklyuk, E. F., Organov, K. A., Stepanchikov, E. A. and Snarskiy, A. N. Authors

Title : Thermal Treatment of Exhausted Oil Strata (Part II)

Periodical : Neft. khoz., v. 32, #2, 33-38, F 1954

Abstract : The heat injection process is discussed with graphical

and analytical representation of heat losses in the stratum and vertical wall of the well. The example computation shows that the practical application of the process depends upon the minimum temperature (200°C) and pressure (80 atm) of the injected medium. 3 charts.

AID - P-191

Institution: None

Submitted : No date

HRANTSEVICH, L.G. [Brantsevych, L.H.]; CHEKNACHOVA, V.V.

Effect of Asotobacter on the change of the content of nitrogen compounds in fodder beets. Visnyk Kyiv. un. no.5. Ser. biol. no.1:64-68 '62. (MIRA 16:5) (AZOTORACTER) (NITROGEN METABOLISM) (BEETS)

CHEKMAREV, A.

De not dissipate funds among many objectives. Prem. keep. 12 ne.10:39 0 58. (MIRA 11:10)

1. Starshiy inshener upravleniya kapital'noge streitel'stva Respressoveta.

(Altai Territory -- Building)

CHEKMAREV, A., podpolkovnik; BURHISTROV, V., leytenant

Accelerated method for blowing up a bridge. Voen. vest. 42 no.8:100-101 Ag '62. (MIRA 15:7) (Demolition, Military)

CHERMAREV, A.A.

System of allowances for diameters of cosmial elements in superhigh—frequency transmission lines. Standartizatsiia 25 no.12:23.38 D '61. (MIRA 14:11) (Electric lines) (Tolerance(Engineering))

CHEKMAREV, A.A.

Calculating tolerances for the heater of devices with a given durability. Standartizatsiia 28 no.2:27-30 F '64. (MIRA 17:3)

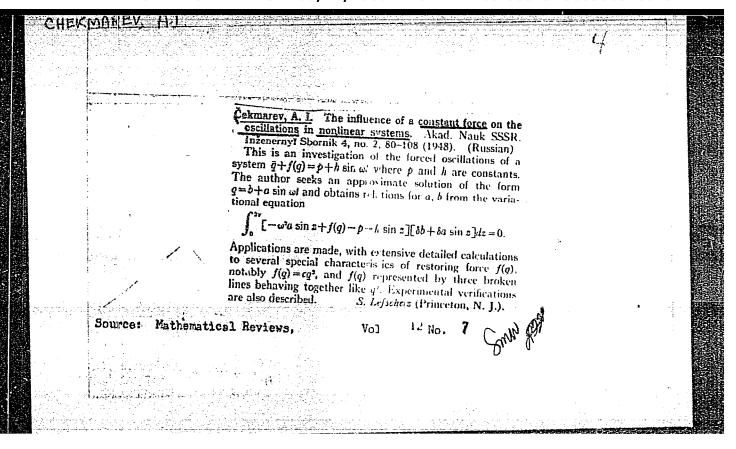
CHEKMAREV, A.A.

Functional interchangeability in the manufacture of electronic instruments. Standartizatsiia 2E no.8:3-9 Ag 164.

(MIRA 17:11)

CHEMAREV, A.A.

Functional interchangeability in the manufacture of electric vacuum devices. Vzaim. 1 tekh. 1zm. v mashinostr. nauch.-tekh. sbor. no.4:331-354 '64 (MIRA 18:1)



"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2

CHEKMAREV, A.I.

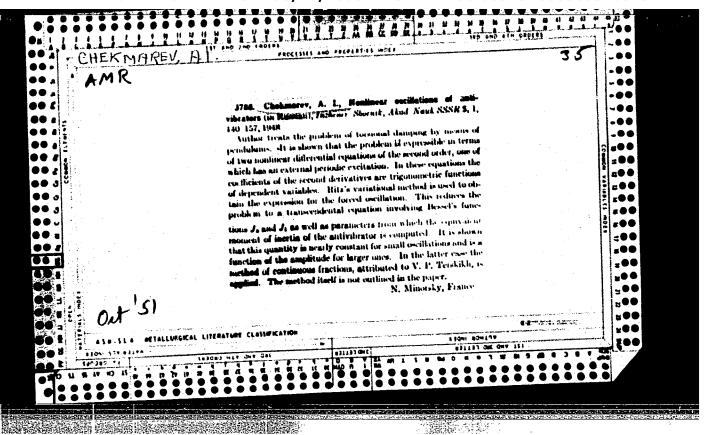
K voprosu o raschete krutil'nykh kolebanii sistem s maiatnikovymi antivibratorami. (In: Serensen, S V. Dinamika i prochnost'kolenchatykh válov. Moskva, 1948. p.110-139, diagrs., bibliography)

Title tr.: Problem of calculation of torsional vibrations of systems with pendulum antivibrators.

TJ182.54

SO: Agronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2



- 1. KATS, A. M.: CHEKMAREY, A. I.
- 2. USSR (600)
- Calculation of "Gurvite(" determinants. Insh.sbor., no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April

BARABASHOV, Nikolay Pavlovich; KOVAL', Ivan Kirillovich; CHEKIRDA, A.T., otv.red.; TRET'YAKOVA, A.N., red.; VAYNBERG, D.A., red.; TROFINERKO, A.S., tekhred.

[Photographic photometry with light filters of Mars during the favorable opposition in 1956] Fotograficheskais fotometria
Marsa so svetofil'trami vo vremia velikogo protivostoisnia v
1956 g. Khar'kov, Izd-vo Khar'kovskogo gos.univ. im. A.M.Gor'kogo, 1959. 529 p. (MIRA 13:5)
(Mars (Planet)--Opposition, 1956)
(Photometry, Astronomical)

PHASE I BOOK EXPLOITATION

SOV/4657

Chekmarev, A. I., M. L. Mikhel', I. A. Krongauz, and Ye. M. Vitenberg

Tars dlys khimicheskikh produktov (Containers for Chemical Products) Noscow, Nauchno-issl. in-t tekhniko-ekon. issled., 1960. 230 p. 2,000 copies printed.

Sponsoring Agency: Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii.

Eds: I. A. Krongauz; S. I. Babushkina, and L. I. Khoras.

PURPOSE: This book is intended as a guide for all engineering, technical, and planning workers concerned with the packing and shipping of chemical products.

COVERAGE: The book discusses the design, manufacture, and utilization of all types of containers for chemical products. It includes technical data of a nature to permit the proper choice of a container in a given situation. New types of containers developed in the Soviet Union, as well as foreign experience, are described. The letter designations for

Card 1/5

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2

Containers for Chemical Products	SOV/469	SOV/4657	
There are 50 references: 20 Soviet, 19 English,	es are mentioned.		
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Introduction			
Metal Containers		5	
1. Netal harmele		11	
2. Steel drums		11	
3. Steel flasks		39 .	
4. Large steel cans and canisters 5. Small steel cans		55 64	
6. Steel cylinders			
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fooden Containers		(**	
1. Wooden barrels		80	
2. Pressed plywood barrels		80	
new and improved kinds of barrels		92	
ird 2/5		97	

Separating harnium and zirconium by extracting their nitrates with the discompil ester of methylphosphonic acid. Izv.vys.ucheb.zav.; khim.i khim tekh. 3 no.1:135-137 '60. (MIRA 13:6)

1. Kafedra tekhnologii radioaktivnykh, redkikh i rasseyannykh elementov Moskovskogo khimike-tekhnologicheskogo instituta imeni D.I. Mendeleyeva. (Hafnium)

(Zirconium)

(Chemical tests and reagents)

5/828/62/000/000/001/017 E039/E420

AUTHORS:

Kaplan, G.Ye., Yagodin, G.A., Noiseyev, S.D., Dmitriyeva, L.P., <u>Mostovaya</u>, O.A., Chekmarev, A.M., Sevost'yanova, E.N., Udovenko, V.F.

TITLE:

The separation of zirconium and hafnium by means of

organophosphorous compounds, amines and other

extraction agents

SOURCE:

Razdeleniye blizkikh po svoystvam redkikh metallov. Mezhvuz. konfer, po metodam razdel. blizkikh po svoyst. red. metallov. Moscow, Metallurgisdat, 1962, 28-41

Although large separation coefficients can be obtained by the use of mixed nitric and hydrochloric acids the process is not favoured because of corrosion difficulties and the large quantity favoured because of corrosion difficulties and the large quantity of acids required. The results of experiments on the extraction of these elements from a sulphuric acid medium in the presence of different extraction agents is therefore examined. It is shown that discomplether-methylphosphonium acid (i C5H110) 2POCH3 of acids required. (DAMPA) is a more powerful complex forming agent than Card 1/2

2

The separation of zirconium ...

5/828/62/000/000/001/017 E039/E420

tributylphosphate (TBP). The separation and distribution coefficients for Zr and Hf are 24.6 and 3.2 respectively when using 10% DAMPA in H2SO4 solution in the presence of thio-cyanic acid, while for 40% TBP in the same medium the corresponding coefficients are 21.6 and 2.6. An increase in the concentration of TBP is undesirable as it leads to increase viscosity and a large loss of extraction agent. It should be noted however that the re-extraction of DAMPA is more difficult than for TBP. Diphenylphosphoric acid extracts Zr and Hf from H2SO4 solution with a separation coefficient 3 to 10. Other extraction agents of this type are also tested. Tests are also made on the use of tri-n-octylamine and in this case as the concentration of H2SO4 is increased the separation coefficient for Zr and Hf passes through a maximum value of 12 at about 1 normal H2SO4 and then falls to a steady value of about 10 for further increase in the H2SO4 concentration. Details are given of the constitution of the organic and aqueous phases and the effect of acidity on the separation coefficient. There are 11 figures and 3 tables.

Card 2/

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00

CIA-RDP86-00513R000308310013-2"

5/830/62/000/002/002/002

AUTHORS:

Yagodin, G.A. and Chekmarev, A.M.

TITLE:

The extraction of zirconium and hafnium by tri-n-octylamine from metal fluoride

solutions

SOURCE:

Ekstraktsiya; teoriya, primeneniye, apparatura, no. 2, Ed. by A.P. Zefirov and M.M. Senyavin. Moscow, Gosatomizdat, 1962, 141 - 153

TEXT:

The extraction of Zr and Hf from K2MF6 (where M = Zr, Hf) by a solution of pure tri-n-octylamine (TOA) in benzene is discussed. TOA will extract Zr and Hf only from weak acid solutions since more acid solutions tend to form $R_3N.HX$ (where X = HSO_4 , C1, NO_3). Highest values for the distribution coefficients, $\mathbf{D}_{\mathbf{Zr}}$ and $\mathbf{D}_{\mathbf{Hf}}$, were obtained with 0.2 M $\rm H_2SO_4$ while $\rm HNO_3$ leads to the lowest $\rm D_M$ values. With $\rm H_2SO_4$, Card 1/2

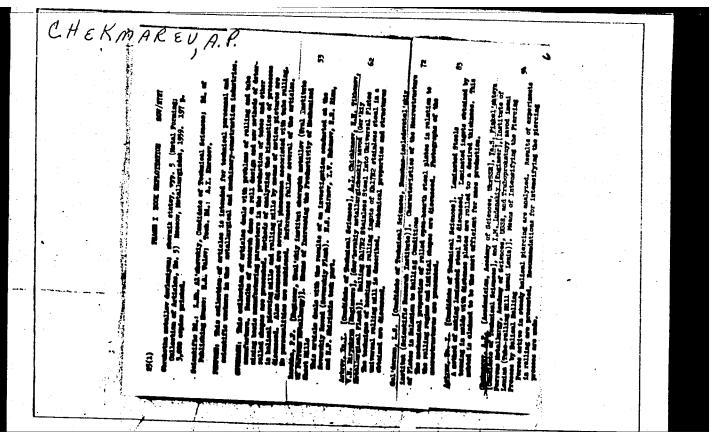
S/830/62/000/002/002/002 D214/D308

The extraction of zirconium ...

 $D_{\rm Hf} > D_{\rm Zr}$ but with HNO₃ Zr is preferentially extracted. The influence of additions was also studied. The values of $D_{\rm M}$ decrease as the concentration of the addition in the aqueous phase increases. With small additions of KCL of KF $D_{\rm Hf} > D_{\rm Zr}$ but at higher concentrations (>6g/l for KCl -> 1% for KF) $D_{\rm Zr} > D_{\rm Hf}$. Addition of K₂SO₄ make $D_{\rm Zr} > D_{\rm Hf}$ but with NH₄NO₃ $D_{\rm Hf} > D_{\rm Zr}$. Extraction from K₂ZrF₆ (10 g/l) acidified with 0.2 M (COOH)₂ by 5% benzene solution of TOA gives $D_{\rm Zr} = 47$ and $D_{\rm Hf} = 10$. Both D values decrease as the molarity of the acid is decreased. The extraction mechanism is summarized by: $2(R_3$ NH)HSO₄org. + K₂ZrF₆aq. $\rightleftharpoons (R_3$ NH)₂ZrF₆org. + + 2KHSO₄aq. Evidence for this mechanism is discussed in detail. There are 12 figures and 6 tables.

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2



S/137/61/000/005/022/060 A006/A106

AUTHORS:

Chekmarev, A.P., Osada, Ya.Ye., Semenov, O.A.

TITLE:

Some geometrical and kinematic peculiarities of cold pipe rolling

processes on a rilger mill

FERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 27, abstract 5D253 ("Tr. Ukr. n.-1. trubn. in-ta", 1959, no. 1, 106 - 125)

TEXT: The authors analyze changes in the pipe walls along the instantaneous deformation seat and present an example of calculating the angle determining the location of the section considered in the instantaneous deformation seat, the least wall thickness (reduction) and other parameters. The authors determine theoretically the rear boundary of the instantaneous deformation seat, and the distribution of the metal flow rates in the direction of rolling along the instantaneous deformation seat.

[Abstracter's note: Complete translation]

Card 1/1

8/137/61/000/006/046/092 A005/A101

AUTHORS:

Chekmarev, A.P., Rudcy, V.S., Chernyavskiy, A.A.

TITLE:

Forward flow of metal during rolling on a pilger mill

PERIODICAL: Referativnyy zhurnal. Metallurgiya, nc. 6, 1961, 36, abstract 6D290 ("Tr. Ukr. n.-1. trubn. in-ta", 1959, no. 1, 96 - 105)

TEXT: Forward flow during the rolling of 273 mm diameter pipes on a $6 - 12^m$ pilger mill was determined from imprints left on the pipe and the pilger mill head by apertures drilled in the rolls. The apertures of 10 mm diameter and 5 -7 mm depth were drilled on every 150 (starting from the groove rims) over the width, and on every 10° (from the beginning of the top) over the length of the roll groove. It was established that the forward flow along the top of rolls during rolling on a pilger mill was considerably higher than in longitudinal rolling of pipes or compact sections in round grooves. The dependences of the coefficient of forward flow on the turning angle of the rolls show that the forward flow attains its highest value within 10° - 20° from the beginning of the top, and then decreases. At the beginning of the top near the rims lagging was observed. The width of this zone near the roll rims extends up to 45° over the

Card 1/2

Forward flow of metal during rolling on a pilger mill S/137/61/000/006/046/092 A006/A101

groove width in the section of the metal outlet from the rolls. The coefficient of forward flow first increases on the length of the polishing section (along the initial 10° - 30°) and then decreases. To determine the coefficient of forward flow with sufficient practical accuracy, the corresponding Yemel'yanov formula may be employed.

Yu. Manegin

[Abstracter's note: Complete translation]

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308310013-2

CHEKMARRY, A.P., akademik; SNOL YANINOV, A.F., inzh.; KLIMENKO, P.L., inzh.
Investigating pressure during rolling with variable radius rolls.

Isv. vys. ucheb. sav.; chern. met. 2 no.4:65-72 Ap '59.

(MIRA 12:8)

1. Dnepropetrovskiy metallurgicheskiy institut. 2.AN USSR (for Chekmarev).
(Rolling (Metalwork)) (Deformations (Mechanics))