

YUKHNOVICH, A.N.---(continued) Card 2.

9. Novgorod-Severskaya meshrayennaya veterinarnaya laboratoriya, Poltavskoy oblasti (for Vorob'yev).
10. Braginskaya rayonnaya veterinarnaya lechebnitsa, Gomel'skoy oblasti (for Yanchenko).
11. Nachal'nik veterinarnogo otdela Chelyabinskogo oblastnogo sel'skokhozyaystvennogo upravleniya (for Amelin).
12. Chelyabinskaya oblastnaya veterinarnaya laboratoriya (for Bychkov).
13. Kaliningradskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Danilin).
14. Sovkhoz "Rodina" Kikvidzenskogo rayona, Stal'ingradskoy oblasti (for Trushin, Skrypnikova).
15. Zaveduyushchiy Kirovo-Chepetskoy myaso-molochnoy i pishchevoy kontrol'noy stantsiyey, Kirovskoy oblasti (for Mikhayev).
16. Gel'mintologicheskaya laboratoriya AN SSSR (for Karmanova).
17. Zapadno-Kazakhstanskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Remizov).

(Veterinary helminthology)

AMELIN, I.P.; LAPSHIN, I.I.

Veterinary specialists in Chelyabinsk Province are improving
their work in every way. Veterinariia 38 no.11:10-12 N '61
(MIRA 18:1)

1. Nachal'nik veterinarnogo otdela Chelyabinskogo oblastnogo
sel'skokhozyaystvennogo upravleniya (for Amelin). 2. Glavnyy
veterinarnyy vrach Chelyabinskoy oblastnoy veterinarno- bakt-
teriologicheskoy laboratorii (for Lapshin).

LAZAREV, P.S., prof.; FEDOROV, A.I., prof.; BUKHTILOV, P.E., prepodavatel';
KAMYNIN, I.N., prepodavatel'; KONDAKOV, A.I., aspirant; AMELIN, I.P.;
ZAYNIKAYEV, M.Sh., veterinarnyy vrach

Malignant course of foot-and-mouth disease. Veterinariia 41 no.5:
39-42 My '64. (MIRA 18:3)

1. Troitskiy veterinarnyy institut (for Lazarev, Fedorov, Bukhtilov,
Kamynin, Kondakov). 2. Nachal'nik Chelyabinskogo oblastnogo veteri-
narnogo otdela (for Amelin).

AMELIN, I.P.

Socialist obligation. Veterinariia 41 no.1:13-14 Ja '65.
(MIRA 18:2)

1. Nachal'nik veterinarnogo otdela Chelyabinskoy oblasti.

AMELIN, I.P.; UGLOV, M.A.

The most important problem is the care of livestock during wintering. Veterinariia 42 no.11:4-7 N '65.

(MIRA 19:1)

1. Nachal'nik veterinarnogo otdela Chelyabinskoy oblasti (for Amelin). 2. Direktor Chelyabinskoy oblastnoy veterinarnoy laboratorii (for Uglov).

AMELIN, I. S.

AMELIN, I. S. and SOLOV, V. D. "Conducting the estimation of Karakul sheep,"
Karakulevodstvo i zverovodstvo, 1949, No. 3, p. 8-12

SO: U-5240, 17, sec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).
item 18575

AMELIN, I.

On Raunkiaer's ecological and biological system of plants. Bot.zhur. 38
no.4:581-582 J1-Ag '53. (MLBA 6:9)

1. L'vovskiy Veterinarno-zootekhnicheskii institut.
(Botany--Classification)

AMELIN, I.S.

AMELIN, I.S.

Scientific work of the Department of Botany of the Lvov Veterinary-
Zootechnical Institute. Bot.zhur.[Ukr.] 12 no.3:112 '55.
(Botany) (MLRA 8:11)

AMELIN, I.S.
AMELIN, I.S.

Classification of the vegetation of the Ukrainian S.S.R. Ukr.
bot.zhur, 14 no.4:78-80 '57. (MIRA 11:1)

1.L'vivs'kyy zooveterinarniy institut, Kafedra botaniki.
(Ukraine--Botany--Classification)

AMELIN, I.S.

Vegetation in the meadows of some villages of Svalyava District,
Transcarpathia. Nauk. zap. Nauk-pryrod. muz. AN URSS 8:23-35 '60.
(MIRA 13:11)

(Svalyana District--Pastures and meadows)

AMELIN, I.S.

Zonality of the plain area of Lvov and adjoining provinces.
Ukr. bot. zhur. 19 no.4:33-39 '62. (MIRA 15:9)

1. L'vovskiy zooveterinarnyy institut, kafedra botaniki.
(Ukraine, Western--Phytogeography)

AMELIN, L.V.

Annotations and authors' abstracts. *Pediatrics* 41 no.11:87
N°62 (MIRA 17:4)

1. Iz Yevpatoriyskogo sanatornogo pensionata imeni Lenina.

SUROV, P.N., glav. red.; NEDESHEV, A.A., nauchnyy sotr., otv. za vypusk;
ZHERDEV, F.G., red.; KUTS, L.I., nauchnyy sotr., red.; MEL'NIKOV,
G.A., red.; AMELIN, N., red.; YURGANCVA, M., tekhn. red.

[Natural resources and prospects for the economic development of
Chita Province; materials] Prirodnye bogatstva i perspektivy raz-
vitiia ekonomiki Chitinskoj oblasti; materialy.... Chita, Chitin-
skoe knizhnoe izd-vo, 1960. 147 p. (MIRA 15:1)

1. Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy
Sibiri. Chitinskoye regional'noye soveshchaniye. 2. Chitinskaya
kompleksnaya laboratoriya Sibirskogo otdeleniya Akademii nauk
SSSR (for Kuts). 3. Nachal'nik proizvodstvenno-tekhnicheskogo ot-
dela Chitinskogo sovmarkhoza (for Zherdev). 4. Direktor kompleksnoy
laboratorii Sibirskogo otdeleniya AN SSSR (for Mel'nikov).

(Chita Province--Natural resources)

(Chita Province--Industries)

AMELIN, N. I.

USSR/Medicine - Industrial and Occupational Hygiene
Dust

Oct 50

176175
"Effectiveness of Measures for the Reduction of Dust
During the Measuring and Mixing of Loose Material,"
N. I. Amelin, Zaporozhskiy Oblast Industrial Sanita-
tion Sta

"Gig 1 San" No 10, pp 14-19

Describes and discusses efficiency of several systems
for reducing contamination of the air by dust during
mixing operations. Finds systems highly effective,
and now they are being accepted for installation
in glass and refractory ware plants of Zapor-
ozh'ye. Seven figures.

176175

BONDARENKO, K.K.; AMELIN, N.I.

Ventilation of hot workshops. Gig. sanit., Moskva No.1:33-40 Jan 52.
(GIML 21:4)

1. Of Zaporozh'ye Oblast Sanitary Epidemiological Station.

AMELIN, Nikolay Ul'yanovich; SHAVARINA, N., red.; YURGANOVA, M.,
tekh.n.red.

[Let everyone think] Pust' kazhdyi podumaet. Chita, Chitinskoe
knizhnoe izd-vo, 1959. 48 p. (MIRA 12:12)
(Chita Province--Efficiency, Industrial)

MAKAROVA, Galina Mikhaylovna; AMELIN, O.^S redaktor; NOVIK, O., tekhnicheskii redaktor

[Intrafactory cost accounting for machine building plants]
Vnutrizavodskiy hospozrakhunok na mashynobudivnykh zavodakh.
Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR, 1957. 117 p.

(MLRA 10:5)

(Machinery industry--Cost accounting)

ARTAMONOV, Aleksandr Yakovlevich [Artamonov, Oleksandr Iakovlevich];
AMELIN, O., red.; PATSALYUK, P. [Patsaliuk, P.], red.

[Tolerances, fits, and technical measurements] Dopusky, posadky
i tekhnichni vymiry. Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR,
1958. 405 p. (MIRA 11:11)

(Machinery--Design)
(Tolerance(Engineering))
(Mensuration)

LEVITSKIY, Petr Apollonevich; AMELIN, O.S., veduchiy redaktor; PATSALYUK, P.,
tekhnichniiy redaktor

[Operational planning in machine shops engaged in production in
lots] Operativne planuvannia v mekhanichnykh tsekhakh seriinoho
vyrobnytstva. Kyiv, Dersh.vyd-vo tekhn.lit-ry URSR, 1957. 142 p.
(Machinery industry) (MLRA 10:9)

1. AMELIN, P. G.
2. USSR (600)
4. Technology
7. Three years of extracting coal with combines. Moskva, Ugletekhizdat, 1951
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

AMELIN, S.V., prof., doktor tekhn.nauk (Leningrad); YAKOVLEV, V.F., doktor tekhn.nauk (Leningrad); SEMENOV, I.I., kand.tekhn.nauk (Leningrad); FROLOV, L.N., inzh. (Leningrad)

Frogs with movable parts. Zhel.dor.transp. 47 no.12:51-55 D '65.
(MIRA 18:12)

AMELIN, S. V.

42545. K voprosu Proyertirovaniya strelochnykh peresvodov dlya vysokikh skorostey dvizheniya. Sbornik Trudov Dlit'ia (Dnepropetr. In-T inzh. Zh.-D transporta im. Kaganovicha), vyp. 17, 1947, S. 3-16

AMELIN, S. V. (et al.)

Calculating and planning shunting switches, Moskva, Transzheldorizdat, 1951.

SO: MLRA. October 1952

AMELIN, S.V., professor, doktor tekhnicheskikh nauk.

Problem of selecting and calculating railway switches. Sbor.
LIIZHT no.146:6-64 '54. (MIRA 8:1)
(Railroads--Switches)

AMELIN, Stepan Vasil'yevich

AMELIN, Stepan Vasil'yevich, professor, doktor tekhnicheskikh nauk; LITVIN, G.A., kandidat tekhnicheskikh nauk, redaktor; KHITROV, P.A., tekhnicheskiiy redaktor

[Junctions and crossings of railroad tracks] Soedineniia i peresecheniia rel'sovykh putei. Moskva, Gos.transp.shel-dor. izd-vo, 1957. 304 p. (MLRA 10:8)
(Railroads--Track)

AMELIE S.Y., professor.

Switch boxes need to be standardized. Put' i put.khoz. no.6:19-21
Je '57.

(MIRA 10:7)

(Railroads--Switches)

~~AMELIN, S.V.,~~ prof., zaslushennyi deyatel' nauki i tekhniki; IVASHCHENKO,
G.I., kand.tekhn.nauk; SMIRNOV, M.P., kand.tekhn.nauk; YAKOVLEV,
V.P., kand.tekhn.nauk

Test performance on the track of new flat-type switch boxes.

Vest.TSNII MPS 18 no.8:40-44 D '59.

(MIRA 13:9)

(Railroads--Switches)

SHAKHUNYANTS, Georgiy Mikhaylovich, doktor tekhn. nauk; AMELIN, S.V., prof., retsenzent; KONSTANTINOV, V.N., dots., retsenzent; SMIRNOV, M.P., retsenzent; YAKOVLEV, V.F., retsenzent; BOCHENKOV, M.S., kand.tekhn. nauk, retsenzent; BROMBERG, Ye.M., retsenzent; YERSHKOV, O.P., retsenzent; ZVEREV, B.N., retsenzent; ZOLOTARSKIY, A.F., retsenzent; IVASHCHENKO, G.I., retsenzent; LINEV, S.A., retsenzent; MARKAR'YAN, M.A., retsenzent; POPOV, V.V., retsenzent; POPOV, S.N., retsenzent; SEREBRENNIKOV, V.V., retsenzent; SHAFRANOVSKIY, A.K., retsenzent; NOVITSKIY, G.I., inzh., retsenzent; VIKTOROV, I.I., kand.tekhn.nauk, retsenzent; VYSOTSKIY, A.F., kand.tekhn.nauk, retsenzent; SAATCHYAN, G.G., kand.tekhn.nauk, retsenzent; YAKOVLEVA, Ye.A., kand.tekhn.nauk, retsenzent; TITOV, V.P., kand.tekhn.nauk, retsenzent; GRUSHEVOY, N.G., inzh., red.; BROMBERG, Ye.M., kand.tekhn.nauk, red.; KHITROV, P.A., tekhn. red.

[Railroad tracks] Zheleznodorozhnyi put'. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 615 p.

(MIRA 14:12)

1. Kafedra "Zheleznodorozhnyi put'" Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Amelin, Konstantinov, Smirnov, Yakovlev). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (for Bochenkov, Bromberg, Yershkov, Zverev, Zolotarakiy, Ivashchenko, Linev, Markar'yan, Popov, V.V., Popov, S.N., Serebrennikov, Shafranovskiy, Novitskiy). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva (for Viktorov, Vysotskiy, Saatchyan, Yakovleva, Titov)

(Railroads—Track)

(Railroad engineering)

AMELIN, Stepan Vasil'yevich, zasl. deyatel' nauki i tekhniki RSFSR,
doktor tekhn.nauk, prof.; DANOVSKIY, Leopol'd Mechislavovich,
dotsent; KONSTANTINOV, Vasil'y Nikolayevich, dotsent;
ANGELEYKO, V.I., prof., retsenzent; BASILOV, V.V., inzh.,
retsenzent; LIDERS, G.V., dots., red.; BOBROVA, Ye.N.,
tekhn. red.

[Tracks and track design, operation and maintenance] Put' i
putevoe khoziaistvo. Pod red. S.V. Amelina. Moskva, Transzhel-
dorizdat, 1962. 185 p. (MIRA 15:9)

(Railroads---Track)

AMELIN, S.V., doktor tekhn. nauk, prof.; SMIRNOV, M.P., kand. tekhn. nauk,
dotsent; YAKOVLEV, V.F., kand. tekhn. nauk, dotsent

Investigating the performance of flat type switch assembly
elements in case of various wear conditions of the car wheel
treads. Sbor. trud. LIIZHT no.188:118-150 '62. (MIRA 16:7)

(Railroads—Switches)

AMELIN, S.V., doktor tekhn. nauk, prof.; SMIRNOV, M.P., kand. tekhn.
nauk, dotsent; YAKOVLEV, V.F., kand. tekhn. nauk, dotsent

Effect of the narrowing of the gauge on the state of stress of
railroad tracks and on the smoothness of train movement. Sbor.
trud. LIIZHT no.191:3-27 '63.

State of stress and deformations of type R50 switches of the
1/11 marking at a gauge width of 1518 millimeter on the running
track and of 1530 millimeter on the track leading into sidings.
Ibid.:28-107

Switches of the 1/11 marking for high-speed traffic in the
straight direction. Ibid.:108-123 (MIRA 16:12)

AMELIN, S.V., doktor tekhn. nauk, prof.; SMIRNOV, M.P., kand. tekhn. nauk,
dotsent; YAKOVLEV, V.F., kand. tekhn. nauk, dotsent

Investigating the wear resistance of the elements of the switch
assembly. Sbor. trud. LIIZHT no.188:5-62 '62. (MIRA 16:7)

(Railroads—Switches)

AMELIN, S.V., doktor tekhn. nauk. prof.; SMIRNOV, M.P., kand. tekhn.
nauk, dotsent; YAKOVLEV, V.F., kand. tekhn. nauk, dotsent

Problems of track and rolling stock interaction within the
area of switch tracks. Sbor. trud. LIIZHT no.188:63-117 '62.
(MIRA 16:7)

(Failroads—Track)

(Railroads—Rolling stock)

AMELIN, S.V., prof., doktor tekhn. nauk

[Arrangement of railroad tracks] Ustroistvo zheleznodoro-
zhnogo puti. Leningrad. Leningr. in-t inzh. zhel.-
dor. transp. Pt.5. 1963. 83 p. (MIRA 17:11)

AMELIN, S.V., doktor tekhn.nauk; SMIRNOV, M.P., kand.tekhn.nauk;
YAKOVLEV, V.F., kand.tekhn.nauk

Train speed over switches. Put' i put.khoz. 8 no.6:30-33 '64.
(MIRA 17:9)

AMELIN, S.V., member of Acad. nauk, prof.; member, ... Acad. nauk,
...; ... V.F., head. ...

... testing of Class 1/3 ... Test. 181 ... 23 no.5:
3-7 ... (MIRA 12:11)

1. Leningradskiy institut in ... transporta
imeni Obratsova.

AMELIN, S.V., prof., doktor tekhn. nauk (Leningrad); ANDREYEV, G.Ye.,
kand. tekhn. nauk (Leningrad); KAROLIM, A.Ye. (Leningrad)

Lengthening the service life of reinforced concrete ties. Zhel.
dor. transp. 46 no.7:49-53 J1 '64. (MIRA 17:8)

1. Glavnyy inzh. sluzhby puti Oktyabr'skoy dorogi (for Karolim).

AMELIN, S.V., prof. (Leningrad); SMIRNOV, M.F., dotsent (Leningrad);
YAKOVLEV, V.F., dotsent (Leningrad)

Results of experimental trips. Put' i put. khoz. 9 no.10:
17-19 '65. (MIRA 18:10)

AMELIN, S.V., prof., doktor tekhn.nauk; IVASHCHENKO, G.I., kand.tekhn.nauk;
SMIRNOV, M.P., kand.tekhn.nauk; YAKOVLEV, V.F., kand.tekhn.nauk

Deformations and stresses in the 1/18 mark switches. Vest.TSNIIMPS
21 no.7:45-48 '62. (MIRA 15:12)

(Railroads—Switches)

AMELIN, S.V., prof. (Leningrad); SMIRNOV, M.P., dotsent (Leningrad);
YAKOVLEV, V.F., dotsent (Leningrad)

Facts learned from research and experience. Put' i put. khoz.
7 no.5:21-24 '63. (MIRA 16:7)

(Railroads—Track)

AUTHORS: Amelin, V. G., and Shirinkin, A. V. SOV/28-59-1-10/29

TITLE: The Mechanical Letter and Number Marking of Metal
(Mekhanicheskaya bukvenno-tsifrovaya markirovka metalla)

PERIODICAL: Standartizatsiya, 1959, Nr 1, pp 36 - 37 (USSR)

ABSTRACT: This is a reprint of an article from the Soviet Journal
"Vestnik Sovnarkhoza", # 5 - 6, 1958, in which a machine
for the mechanical marking of letters and numbers on
metal is described. There is one photo, one set of diagrams,
1 table.

Card 1/1

AMELIN, V.G.

A handbook with mistakes ("Metals and Materials" by M.M.Gul'ko).
Mashinostroi'tel' no.1:48 Ja '61 (MIRA 14:3)
(Metals) (Materials) (Gul'ko, M.M.)

AMELIN, V.M., inzh.

Introduction on ships of ropes made of synthetic fibers.
Sudostroenie 27 no.2:18-19 P '61. (MIRA 16:7)

(Rope) (Ships—Equipment and supplies)

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SOV/35-59-11-9602

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Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 139
(USSR)

AUTHOR: Amelin, V.M.

TITLE: Methods of Utilizing the Moon for Geodetical Purposes.

PERIODICAL: Byul. In-ta teor. astron. AS USSR, 1958, V7, Nr 1, pp 19 - 42

ABSTRACT: The problem is examined of determination of spatial coordinates of points on the earth's surface, with respect to the inertia center of the earth, on the basis of comparing the geocentric coordinates of the Moon calculated by ephemerides and topocentric (or observed) coordinates. This method of determination of absolute coordinates has rarely been used up till now, because of the low-accuracy observations of the Moon, and the inaccuracy of Brown's tables, on the basis of which geocentric coordinates of the Moon were calculated. At the present time, owing to devising photo-electric methods of registration and systematic observations, carried out at a great number of observatories for determining the corrections of coordinates of the Moon, new possibilities have been opened for solving the mentioned problem. On the basis of the theory of eclipses the following

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Methods of Utilizing the Moon for Geodetical Purposes

formulae are derived:

$$\cos \delta \sin (\alpha - a) \operatorname{cosec} \tilde{\pi}_c = X \sin t_1 - Y \cos t_1 = 1 \sin L,$$

$$[\sin \delta \cos d - \cos \delta \sin d \cos (\alpha - a)] \operatorname{cosec} \tilde{\pi}_c + X \sin d \cos t_1 - Y \sin d \sin t_1 -$$

$$- Z \cos d = 1 \cos L.$$

Using these formulas the author compiles the equations for determining X, Y and Z, i.e. geocentric or absolute rectangular coordinates of the observation point. In determining geocentric coordinates of the Moon α and δ it is recommended to allow for the uneven rotation of the earth and the asymmetry of the northern and southern hemispheres of the Moon. It is suggested to determine the topocentric coordinates of the Moon α and δ by the photographic method, i.e. with the aid of the simultaneous photographing of the Moon and the stars. Particular cases are examined when the geocentric coordinates of the Moon can be considered as exact, and when the coordinates are in need of correction. In the second case it is expedient to use observations closely spaced in time at two points; if the points are related to the triangulation plotted on a reference ellipsoid, then the position of this ellipsoid can be determined in relation to the earth's center of inertia. As an example, the calculation of the absolute deviations of the plumb line is cited, with the utilization of the observations of the Moon in Pulkovo. There follows the method of determining geocentric coordinates of points on the earth's

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Methods of Utilizing the Moon for Geodetical Purposes

surface through observations of star occultations by the Moon. Necessary equations are obtained on the basis of the formulae cited above, and then the same two particular cases are examined; suggestions are cited on methods of making allowance for the unevenness of the Moon's edge, and a numerical example, utilizing the observations of the Abastumanian observatory, is given. A brief analysis of the possibilities, and a survey of the works connected with the utilization of observations of solar eclipses for the geodetical connection of two points are given. (Sm. also RZhAstr, 1959, Nr 2, 1557). Bibl. 24 titles.

A.K. Malovichko

Card 3/3

AMELIN, V. M., Candidate Phys-Math Sci (diss) -- "Methods of using observations of the moon for geodetic purposes". Leningrad, 1959. 5 pp (Acad Sci USSR, Main Astronomical Observatory), 150 copies (KL, No 25, 1959, 125)

ZHONGOLOVICH, I.D.; AMELIN, V.M.; KULIKOV, D.K., starshiy nauchnyy
sotrudnik, otv.red.; BARKOVSKIY, I.V., red.izd-va; HLEYKH,
E.Yu., tekhn.red.

[Tables and nomograms for processing observations of artificial
earth satellites] Sbornik tablits i nomogramm dlia obrabotki
nabliudenii iskusstvennykh sputnikov Zemli. Moskva, Izd-vo Akad.
nauk SSSR, 1960. 188 p. (MIRA 13:6)
(Artificial satellites--Tracking)

PHASE I BOOK EXPLOITATION SOV/4391

Zhongolovich, Ivan Danilovich, and V. M. Amelin

Sbornik tablits i nomogramm dlya obrabotki nablyudeniy iskusstvennykh sputnikov zemli (Collection of Tables and Nomograms for the Processing of Observations of Artificial Earth Satellites) Moscow, AN SSSR, 1960. 195 p. Errata slip inserted. 2,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut teoreticheskoy astronomii.

Resp. Ed.: D. K. Kulikov, Senior Scientific Worker; Ed. of Publishing House: I. V. Barkovskiy; Tech. Ed.: E. Yu. Bleykh.

PURPOSE: This book is intended for professional and amateur astronomers engaged in observation of artificial earth satellites.

COVERAGE: The book contains tables and nomograms for calculating horizontal topocentric coordinates of a satellite

Card 1/3

ZHONGOLOVICH, Ivan Danilovich; SABANINA, Tat'yana Borisovna;
AMELIN, V.M., kand. fiz.-matem. nauk, otv. red.;
BARKOVSKIY, I.V., red. izd-va; VINCGRADOVA, N.F., tekhn.
red.

[Five-place tables of natural values of $\tan \frac{x}{2}$ and $\tan^2 \frac{x}{2}$]

Tablitsy natural'nykh znachenii $\operatorname{tg} \frac{x}{2}$ i $\operatorname{tg}^2 \frac{x}{2}$ s piat'iu

znachashchimi tsiframi. Moskva, Izd-vo AN SSSR, 1963. 383 p.
(MIRA 16:10)

(Trigonometry--Tables, etc.)

L 52492-65 EEO-2/EWT(d)/FBD/FSS-2/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d)/T-2/EEC(c)-2/EED-2
 Pn-4/Po-4/Pq-4/Pac-4/Pg-1/Pae-2/Pi-4/Pk-4/Pl-4 GH/WR

ACCESSION NR: AT5012012

UR/2816/64/000/039/0003/0008

AUTHOR: Amalin, V. M.

TITLE: Reduction of simultaneous satellite observations

SOURCE: AN SSSR. Astronomicheskii sovet. Byulleten' stantsiy opticheskogo
 nablyudeniya iskusstvennykh sputnikov Zemli, no. 39, 1964, 3-8

TOPIC TAGS: artificial satellite, satellite tracking, geodesy, photographic
 observation/ Echo I artificial satellite, NAFA 13/25 camera

ABSTRACT: The author investigated the simultaneous tracking of satellites for
 geodetic purposes. Two problems were examined: determination of satellite
 position from simultaneous tracking data and determination of the coordinates of
 an unknown station. Data used in computations to test the author's conclusions
 were obtained from measurements on Echo I. For both positions--of the satellite
 and of the unknown station--the author used equations proposed by I. D.
 Zhongolovich (Sputniki Zemli i geodeziya. Astr. zhurnal, Vol. 41, No. 1, 1964),
 as these offered the simplest and most convenient method of calculation. The
 coordinates of the satellite were determined with an accuracy of ± 100 m. It is
 pointed out that this error involves the errors incorporated in the coordinates
 Card 1/2

L 52492-65

ACCESSION NR: AT5012010

of the reference station adopted. Actual determination of coordinates of an unknown station gave values having an accuracy within 100-130 m (comparable with location of the satellite). This error depended (in the author's computation) on the use of astronomical rather than geodetic coordinates, accuracy of the camera for determining direction to satellite (3-4" for the NAFA-3s/25 camera), and accuracy of time determination (not reaching complete synchronization in the author's observation). If these factors are corrected, the author believes that the error may be reduced to 30-50 m. Orig. art. has: 10 formulas and 3 tables.

ASSOCIATION: Institut teoreticheskoy astronomii, AN SSSR (Institute of Theoretical Astronomy, AN SSSR)

SUBMITTED: 21Feb66

ENCL: 00

SUB CODE: DC, E5

NO REF SOV: 004

OTHER: 001

Card 2/2

AMELIN, V. M.

Improvement of the broncho-esophagoscope. Vest. otorinolar.
12:4, July-Aug. 50. p. 69-71

1. Of the LOR (Otorhinolaryngological) Division, Leninabad Oblast
Hospital.

CLML 19, 5, Nov., 1950

AMFLIN, V. M.

Tracheotomy following respiratory arrest. Vest. oto-rin. 14 no. 4, 1952

SO: MLRA. November 1952

AMELIN, V.M.

~~Method of extraction of coins from the esophagus.~~ Vest. otorinolar.,
Moskva 15 no.3:87-88 May-June 1953. (CINL 25:1)

1. Of the Division for Diseases of the Ear, Throat, and Nose of Leninabad
Oblast Hospital.

AMELIN, V.M.

Mechanical cleansing of the trachea and bronchi through a
tracheostoma in descending diphtheria. Vest.oto-rin. 16 no.1:
84-85 Ja-F '54. (MLRA 7:3)

1. Iz oto-laringologicheskogo otdeleniya Leninabadskoy oblastnoy
bol'nitsy. (Trachea--Surgery) (Diphtheria)

ALSHINBAYEV, M.R.; AMELIN, V.P.; ANDRIANOVA, O.V.; GASIYEV, Zh.;
DEGRAF, G.A.; INKARBEKOV, A.B.; KOLOMYTSEV, I.V.; KOLTUSHKIN,
I.S.; MALAKHOV, V.P.; MONASTYRSKIY, A.O.; REZNIKOV, B.N.;
SAKHAROV, I.V.; SENNIK, V.K.; SOSNIN, V.A.; SURKO, V.I.;
SURKOV, Ye.P.; SYRLYBAYEV, S.N.; USIKOV, N.V.; UCHAYEV, A.F.;
SHESTOPALOV, Ye.V.; SHERMAN, R., red.; GOROKHOV, L., tekhn.
red.

[Study manual for a machinery operator] Uchebnik-spravochnik
mekhanizatora. Alma-Ata, Kazsol'khozgiz, 1963. 326 p.

(MIRA 16:12)

1. Alma-Ata, Kazakhskiy gosudarstvennyy sel'skokhozyaystven-
nyy institut. Fakul'tet mekhanizatsii. 2. Sotrudniki fakul'-
teta mekhanizatsii Kazakhskogo gosudarstvennogo sel'sko-
khozyaystvennogo instituta (for all except Sherman, Gorokhov).
(Agricultural machinery)

1ST AND 2ND ORDERS																																																																													
PROCESSING AND PREPARATION													CLASSIFICATION																																																																
<p>PA AMELINA, A.G. 9</p> <p>Examination of the microstructure of stainless steel by electrolytic etching. N. A. Solov'eva and A. G. Amelina. <i>Zhurnal Khim. Fiz.</i> 54(1978). The American method of electrolytic etching is discussed. Chas. Blane</p> <p>ASS. SLA. METALLURGICAL LITERATURE CLASSIFICATION</p>																																																																													
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																										1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																										
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ROZIN, V.V., polkovnik meditsinskoy sluzhby, kand.med.nauk; FILIPPOV, V.A.,
inzh.-podpolkovnik, kand.tekhn.nauk; AMELINA, A.V.

Some current problems in radiotherapy. Voen.-med. zhur. no.6:40-42
Je '61. (MIRA 14:8)

(RADIOTHERAPY)

AMELINA, A.A., inzhener; MELESHKIN, I.I., inzhener.

Equipping cars with roller bearings. Zhel. dor. transp. 38 no.11:
22-27 N '56. (MLRA 9:12)

(Car wheels) (Roller bearings)

KOMAROV, S.G.; SAMOKHVALOV, S.F.; BELAVENTSEV, N.V.; BOMBARDIROV, P.P.;
AMELINA, A.A.; BLIZNYUK, V.F.; LADYGIN, V.I.; PEROV, A.N.; VASIL'YEV,
I.P.; BRODOVICH, N.B.; RABINOV, A.M.; ALEKSEYEV, V.D.; YEGOROV,
V.A., inzh.,red.; ARSHINOV, I.M., inzh.,red.; VERINA, G.P., tekhn. red.

[Handbook on the repair of freight cars] Spravochnik po remontu
gruzovykh vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 503 p.
(MIRA 11:12)

(Railroads--Freight cars--Maintenance and repair)

AMELINA, A. A.

AMELINA, Anna Aleksandrovna, inzh.; DEVIATKOV, V.F., kand. tekhn. nauk, retsenzent; MAYGOV, V.Ya., inzh., retsenzent; SARANTSEV, Yu.S., inzh., red.; KHITROV, P.A., tekhn. red.

[Arrangement and repair of car axles with roller bearings] Ustroistvo i remont vagonnykh buks s rolikovymi podshipnikami. Moskva, Vses. izdatel'sko-poligr. ob'edinenie M-va putei soobshchenia, 1961. 223 p.

(MIRA 14:9)

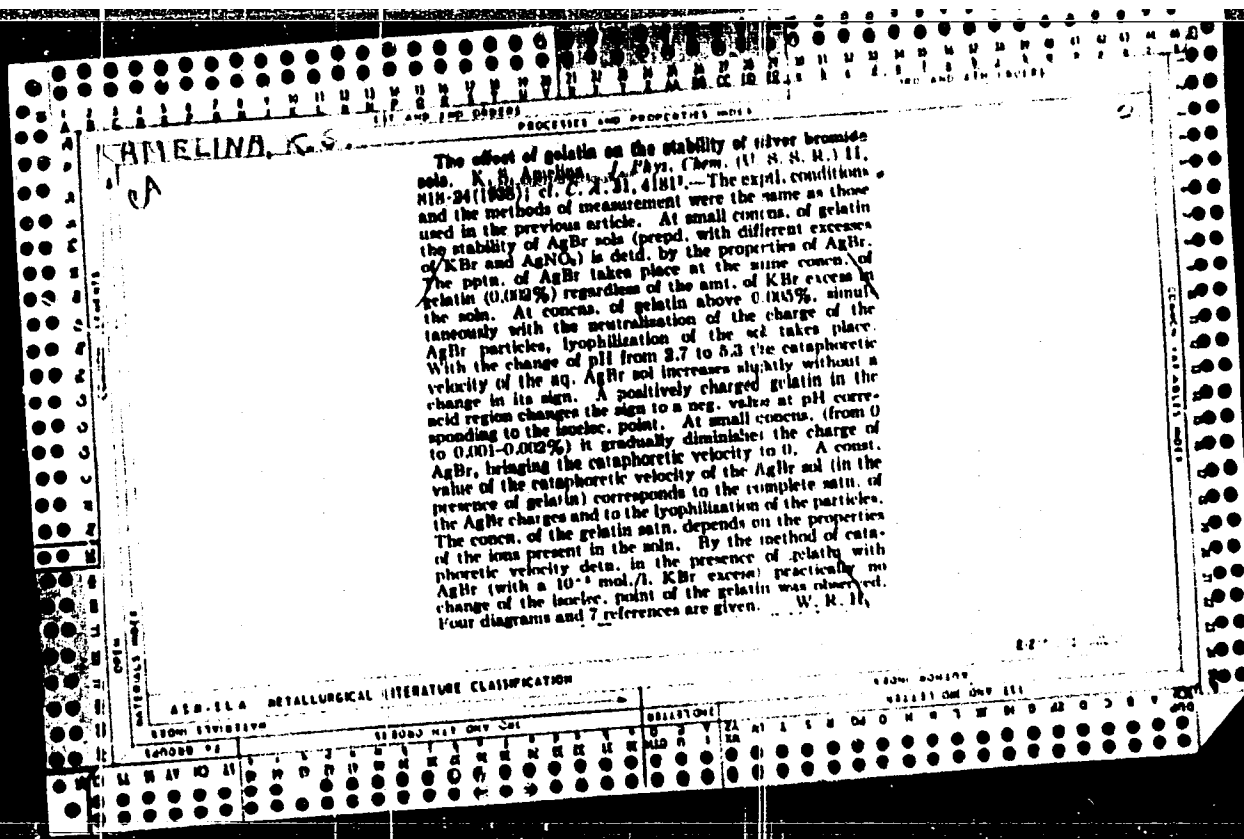
(Car axles)

AMELINA, A.A., otv. za vypusk; BOBROVA, Ye.N., tekhn. red.

[Technical instructions for the operation and repair of
car boxes with roller bearings] Tekhnicheskie ukazaniia po
ekspluatatsii i remontu vagonnykh buks s rolikovymi pod-
shipnikami. Moskva, Transzheldprozdats. 1962. 157 p.
(MIRA 16:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye vagonnogo
khozyaystva.

(Car axles) (Roller bearings)



AMELINA, K.S.; KONVALOVA, A.M.

Comparative evaluation of the various methods of determining the degree of tanning in a gelatin solution. Trudy LKI no.3:220-226 '55. (MLRA 9:8)

1. Kafedra obshchey fotografii i tekhnologii obrabotki kinofoto-materialov,
(Photographic emulsions)

AMELINA, K.S.; GOLOD, I.S.

Study of the change in the geometrical dimensions of the motion-picture film positive and of the matrix in hydrotype printing.
Trudy LIKI no.4:103-108 '56. (MLRA 10:5)

1.Kafedra obshchey fotografii i tekhnologii obrabotki kinoplenki i kafedra kinoapparatury.
(Color cinematography)

AMELINA, K.S.; KOVALICHEV, F.F.

Diffusion of water into the dry layers of gelatin. Sbor. st. LITMO
no.24:127-133 '57. (MIRA 11:5)

(Diffusion) (Gelatin)

AMELINA, K.S.; KOVALICHEV, F.F.; KOVALICHEV, O.F.

Diffusion of water solutions into the dry layers of gelatin. Sbor.
st. LITMO no. 24:134-139 '57. (MIRA 11:5)
(Diffusion) (Gelatin)

PONOMARENKO, A.A.; AMELINA, L.M.

Determination of small quantities of phenols by the chemiluminescent method. Zaur.anal.khim. 18 no.10:1244-1249 O '63. (MIRA 16:12)

1. Commercial-Economic Institute, Lvov Institute, Lvov.

L 52796-65 EWT(1) 34-4 IJP(c)

UR/0079/64/034/012/4118/4118

ACCESSION NR: AP5016194

AUTHOR: Ponomarenko, A. A.; Popov, B. I.; Amelina, L. M.; Grishchenko, L. V.;
Shindel', R. Ye.

TITLE: Inhibition of the chemiluminescence of luminol by additions of certain organic compounds and the utilisation of this effect for analytical purposes

SOURCE: Zhurnal obshchey khimii, v. 34, no. 12, 1964, 4118

TOPIC TAGS: luminescence, alcohol, phenol, quantitative analysis, organic nitrogen compound

Abstract: The inhibiting action of various organic compounds on the chemiluminescent radical reaction of luminol in the system luminol - copper ammine - hydrogen peroxide was investigated, using the method of chemiluminescent quantitative analysis. The nature of the alcohols tested greatly influenced their inhibiting ability. Polyhydric and unsaturated monohydric alcohols suppressed the luminescence most actively; monosaccharides and disaccharides proved to be strong inhibitors of chemiluminescence. Aromatic compounds -- nitrophenols and dinitrophenols,

Card 1/2

L 52796-65

ACCESSION NR: AP5016104

aminophenols, amines, nitroanilines, naphthols -- intensively suppressed the chemiluminescence; compounds with two substituents exhibited activities in the series: ortho-isomer > para-isomer > meta-isomer. The high sensitivity of the chemiluminescent reaction of luminol to additions of inhibitors made it possible to develop a chemiluminescent method for determining small quantities of these compounds ($1 \cdot 10^{-3}$ - $5 \cdot 10^{-8}$ M). The differences in inhibiting activity were used to develop methods of determining percent composition of mixtures for aliphatic compounds and for ortho-, meta-, and para-isomers of aromatic compounds.

ASSOCIATION: L'vovskiy torgovo-ekonomicheskiy institut (L'vov Trade-Economics Institute)

SUBMITTED: 28Jul64

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 003

OTHER: 001

JPRS

BAB
Card 2/2

PONOMARENKO, A.A.; AMELINA, L.M.

Catalytic action of copper complexes of α -amino acids on the chemiluminescence of luminol and the chemiluminescent method for the microdetermination of α -amino acids. Zhur. ob. khim. 35 no.4: 750-751 Ap '65. (MIRA 18:5)

1. L'vovskiy trgovo-ekonomicheskii institut.

L 25688-66

ACC NR:

AP6016709

SOURCE CODE: UR/0079/65/035/012/2252/2253

AUTHOR: Ponomarenko, A. A.; Amelina, L. M.

ORG: L'vov Trade-Economic Institute (L'vovskiy trgovo-ekonomicheskii institut) ¹⁶ B

TITLE: Inhibition of the chemiluminescence of luminol by alpha-amino acids and the chemiluminescent method of determining micro quantities of alpha-amino acids

SOURCE: Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2252-2253

TOPIC TAGS: chemiluminescence, amino acid, alanine

ABSTRACT: To develop a single stage method for the chemiluminescent analysis of amino acids, the inhibiting action of alpha-amino acids and beta-alanine on the chemiluminescence of luminol was studied in the system luminol-hydrogen peroxide-copper ammoniate. The following working solutions were used: 0.002 M solution of luminol in 0.1 M solution of NaOH, 0.001 M solution of CuSO_4 in 1% NH_4OH and 0.06 M solution of H_2O_2 . The illumination is recorded on a mirror galvanometer which registers its maximum reading. By changing the quantity of the amino acid taken, a data are obtained from which an intensity-luminescence curve is constructed. Fifteen amino acids were arranged in a series according to their inhibiting activity. The above curves are also calibration curves for determining the concentration of amino acids by the chemiluminescent method. During quantitative analysis, the deviations of the data of the

Card 1/2

UDC: 547.466+620.186.2

2

L 25688-66

ACC NR:

AP6016709

chemiluminescent method from the actual content of the amino acids in the solution do not exceed 5%. The sensitivity of the method is illustrated with data on certain amino acids. [JPRS]

SUB CODE: 07 / SUBM DATE: 21Jun65 / ORIG REF: Q03 / OTH REF: 001

Card 2/2

ACC NR: AR6035106

SOURCE CODE: UR/0137/66/000/008/E003/E003

AUTHOR: Amelina, L. S.; Kushnareva, A. K.; Rizol', A. I.

TITLE: Structural features of bimetallic welds produced by the explosion method

SOURCE: Ref. zh. Metallurgiya, Abs. 8E19

REF SOURCE: Sb. Proiz-vo trub. Vyp. 16. M., Metallurgiya, 1965, 86-89

TOPIC TAGS: metal welding, plastic deformation, bimetal, bimetal weld, bimetal welding

ABSTRACT: An investigation was made of welds of Al-Al, Cu-Cu, ST-10-MZS alloys and Al-brass alloys produced by pulsed loading. It has been determined that the development of considerable plastic deformation at the contact surfaces of metals to be welded during their contact is a prerequisite for insuring a strong coherence between the metals in explosive welding. The heat generated by contact surfaces presumably produces diffusive redistribution of atoms between the metals being welded and therefore leads to the formation of a transition layer, differing in chemical composition from the initial metals. V. Fomenko. [Translation of abstract]

Card 1/1 SUB CODE: 13/

UDC: 621.791.1.011

[AM]

1.8000

31851

S/032/62/028/001/009/017

B124/B138

AUTHORS: Kukhtevich, G. M., Litvinenko, N. A., and Amelina, L. S.

TITLE: Features of the magnetic testing of thin bimetallic coatings

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 1, 1962, 71 - 72

TEXT: The magnetic flaw detector (Fig.) described in this paper is based on the magnetic suspension method, and is used to test a soft-magnetic metal coating 40 to 100 μ thick, applied to nonmagnetic steel by hot rolling. The device consists of d. c. operated electromagnets 1 and 2 each composed of two cores and having a common shaft 3 which is fixed to test table 4, BSA (VSA)-type rectifier 5 with a rectified voltage of 24 v, container 6 capacity ~15 liters, equipped with a pump, special supply duct 7, illuminator, and flexible rubber hoses for circulating the suspension. The electromagnet coils have 1700 turns of the wire ПЭЛ (PEL), 1 mm in diameter, and are contained in an aluminum housing. The current in the coil was controlled with an ferro-resonance voltage controller. Products are tested in a magnetic field of 70 to 80 oe. The suspension is pumped to the test article, passes round it and is returned to container 6 through connecting pipes and an outlet in the test table. The Card 1/2

KUKHTEVICH, G.M.; IITVINENKO, N.A.; AMELINA, L.S.

Special features of the magnetic testing of thin coatings on
bimetallic materials. Zav.lab. 28 no.1:71-72 '62.
(MIRA 15:2)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut.
(Laminated metals)
(Magnetic testing)

L 07456-67

EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWP(t)/ETI

IJP(c)

JD/HM/HW

ACC NR: AP6035203

SOURCE CODE: UR/0383/66/000/005/0035/0038

AUTHOR: Yurchenko, N. P.; Buynovskiy, A. M.; Amelina, L. S.; Boboshko, Ye. G.; Mikhal'chuk, L. S.

ORG: none

TITLE: Explosive forming of bimetallic tube shells intended for hot working

SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost, no. 5, 1966, 35-38

TOPIC TAGS: explosive forming, bimetallic tube shell, composite metal shell, shell-
~~explosive forming, shell and extrusion~~, metal tube, metal extrusion

ABSTRACT: Bimetallic tube shells consisting of a steel-10 tube with OKh18NiOT steel outside cladding have been produced by explosive bonding. The bonding was done by detonation of the ammonite charge placed on the outside surface of the assembled shell, which was provided with an internal core to prevent distortion of the inner surface. In this manner, bimetallic 400-mm long tube shells with an outside diameter of 83 mm and a wall thickness of 22 mm (thickness of cladding about 10 mm) were produced. The adhesion of the cladding layer to the base metal was found to be sufficiently strong. An interlayer was formed between the base metal and the cladding. It had a cast structure of iron-base alloy containing 5% mixed and 10% chromium. This interlayer had a microhardness of 4.4 gn/m². The microhardness dropped sharply in both directions. From the bimetallic shells, 45 x 3.5 mm tubes were

Card 1/2

UDC: 621.774.5

L 07456-67

ACC NR: AP6035203

produced by hot extrusion. The tubes had a tensile strength of 539 Mn/m^2 , a yield strength of 274 Mn/m^2 , and an elongation of 40—50%. Because of their high ductility, the tubes could be cold rolled or cold drawn without heat treatment. Orig. art. has: 4 figures.

SUB CODE: 13, 11/ SUBM DATE: none/ ATD PRESS: 5104

Cord 2/2 *2/2*

SKVORTSOVA, A.V.; AMELINA, M.E.

Introduction of Far Eastern trees and shrubs in the Central Siberian
Botanical Garden. Trudy Bot. sada Zap.-Sib. fil. AN SSSR no.2:59-70
'57. (MIRA 11:10)
(Novosibirsk--Plant introduction) (Soviet Far East--Trees)
(Soviet Far East--Shrubs)

EXCERPTA MEDICA Sec.17 Vol.4/4 Public Health, etc. Apr 58
Amelina N. A.

1423. HYGIENIC EVALUATING OF TREATMENT OF WASTE WATERS FROM
THE KRASNODAR PETROLEUM REFINERY PLANTS (Russian text) -
Amelina N. A. - GIGIENA 1957, 6 (16-20) Tables 3 illus. 1

The sanitary conditions of the Kouban river, below the site of discharge of waste waters from the petroleum refinery plant have been extremely unfavourable for many years and did not meet sanitary requirements. In order to lower the content of petroleum in waste waters before its discharge into the purification plant, the sewage underwent the following treatment: 80% of petroleum products were pumped out from the collecting tank, the sewage was heated before entering the petroleum-retaining chambers, after the latter it passed into a ground sedimentation basin adequate to contain a 48-hour quantity of waste water. As a result of these measures the water of the Kouban river below the site of sewage discharge at the nearest point of its use for domestic purposes contains petroleum near the maximum permissible concentration. No petroleum has been detected in river bed deposit and no fish has been caught with any smell of petroleum.

AMELINA, N.A., Cand Med Sci -- (diss) "Hygienic
effectiveness of sanitary ^{engineering} ~~technical~~ measures in the ^{sanitary}
^{maintenance} ~~care~~ of reservoirs in ~~the~~ regions of ^{the} petroleum extraction
(^{petroleum processing}) and ~~treatment~~ industry ⁱⁿ Krasnodarskiy Kray." Mos, 1958

11 pp (First Mos Order of Lenin Med Inst im I.M. Sechenov)

200 copies (KL, 50-58, 128)

- 107 -

AMELIHA, N.A.; ZHACHKO, L.M.; KOVAL'SKAYA, A.I.

Effect of industrial and domestic sewage on the sanitary condition
of the Kuban River in the vicinity of Krasnodar. Gig.i san. 24
no.8:68-71 Ag '59. (MIRA 12:11)

1. Iz kafedry kommunal'noy gigiyeny i Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova i iz Krasnodarskoy
krayovoy sanitarno-epidemiologicheskoy stantsii.
(WATER POLLUTION)

AMELINA, O. A.

USSR/Medicine — Sheep
Medicine — Parasites

Sep 48

"Tests of the Use of Novoplasmin (LP4) in Cases of Haemosporidiosis in Sheep," D. K. Nechinennyy, Cand Vet Sci, O. A. Amelina, Co-Worker, Krymsk Sci Res Vet Experimental Sta, 24 pp

"Veterinariya" No 9 1948, 1949, 1950, 1951

Presents results of experiments on 50 sheep. Recommends use of novoplasmin (LP4) for treating subject disease.

PA 22/49T76

AMELINA, N.A.; ZNACHEKO, L.I.

Effectiveness of the work of the experimental settling pond
at the Krasnodar Petroleum Refinery. Nauch. trudy Kub. gos. med.
inst. 19:90-96 '62. (MIRA 17:8)

1. Iz Krasnodarskoy gorodskoy sanitarno-epidemiologicheskoy
stantsii (glavnyy vrach - kand. med. nauk N.A. Amelina) i
Krasnodarskoy krayevoy sanitarno-epidemiologicheskoy stantsii
(glavnyy vrach Ye.V. Strikhanova).

AMELINA, O. A.

USSR/Medicine - Brucellosis
Cattle, Diseases

Jun 49

"Early Diagnosis of Infectious Abortions in Cattle
(Brucellosis Abortus)," O. A. Amelina, Crimean
Sci Res Vet Experimental Sta, 1 p

"Vet" No 6

PA 67/49196

Experiment has shown that serological study of large
horned cattle during the initial after-abortion
period is preferable to bacteriological study of
the fetus since the former reveals 43.5% more bru-
cellosis infection, and requires a comparatively
shorter time for diagnosis (1-2 days). This method

67/49196

USSR/Medicine - Brucellosis (Contd)

Jun 49

should be widely used because of its practicability
in laboratories, veterinary hospitals and clinics.

67/49196

AMELINA, O.A., nauchnyy sotrudnik.

Use of the oil of Hippophae Rhamnoides L in veterinary practice.
Veterinariia 30 no.4:45-47 Ap '53. (MLRA 6:4)

1. Sibirskiy zonal'nyy nauchno-issledovatel'skiy institut.

AMELINA, O.P.

Studies on the use of the A.V. Vishnevskii paranephral block in renal colic. Sov.med. 22 no.11:123-125 N '58 (MIRA 11:11)

1. Iz kliniki obshchey khirurgii (zav. - prof. B.L. Bronshteyn) Blagoveshchenskogo meditsinskogo instituta (dir. - dots. S.G. Ptitsyn)
(KIDNEYS, calculi
colic, ther., paranephral procaine block (Rus))
(ANESTHESIA, REGIONAL, in various dis.
paranephral block in kidney colic (Rus))

AMELINA, O. P. Cand Med Sci -- "On ~~the~~ disturbances of ^{the}
blood supply ^{of} the colon ^{in impairment of its vessels} when ~~the internal~~ organic vessels
~~are damaged~~ (in an experiment)." Khabarovsk, 1961. (Khaba-
rovsk State Med Inst) (KL, 8-61, 258)

- 428 -

KARMANOVA, L.S.; KRAP'IVKINA, L.S.; AMELINA, V. Ya.

Use of new paint materials for applying marks on airfield
concrete constructions. Lakokras. mat. i ikh prim. no.3:67
'61. (MIRA 14:6)

(Paint materials)

S/081/62/007/002/102/107
B110/B101

AUTHORS: Karmanova, L. S., Krapivkina, L. S., Amelina, V. Ya.

TITLE: Use of new paint and varnish materials for applying marks to concrete equipment of airports

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 603, abstract 2P274 (Lakokrasochn. materialy i ikh primeneniye, no. 3, 1961, 67)

TEXT: A mixture (1:1) of perchlorovinyl enamels of the types XCЭ (KhSE) with ethinol varnish was successfully used for applying marks to concrete surfaces of airports. [Abstracter's note: Complete translation.] ✓

Card 1/1

5(4), 24(2)

AUTHORS:

SOV/20-124-4-41/67
Segalova, Ye. Ye., Tulovskaya, Z. D., Anelina, Ye. A.,
Rebinder, P. A., Academician

TITLE:

Causes of the Loss of Strength of the Monocalcium Aluminate
Crystal Structure Formed
at High Temperature (O prichinakh snizheniya prochnosti
kristallizatsionnoy struktury monokal'tsiyevogo alyuminata,
obrazuyushchey pri povyshennoy temperature)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 4, pp 876-879
(USSR)

ABSTRACT:

A short report is first given on the present stage of the problem and on earlier papers dealing with this subject. The formation of a crystallization structure of reduced strength and higher temperature is not due to the formation of another compound, but to a modification of the conditions of the crystallizing-out of the hydrate forming these compounds. The authors investigated the kinetics of oversaturations by employing the conductometric method at an optimum rate of mixing (400 rpm). In order to prevent carbonization of suspensions, all measurements were carried out in a nitrogen atmosphere. In all sufficiently concentrated suspensions

Card 1/4

SOV/20-124-4-41/67

Causes of the Loss of Strength of the Monocalcium Aluminate Crystal
Structure Formed at High Temperatures

a constant level of electric conductivity is established, which corresponds to the maximum oversaturation or to the conditioned solubility of CA (an abbreviation used by the authors for $\text{CaO} \cdot \text{Al}_2\text{O}_3$). In suspensions of CA a constant level of oversaturation is more quickly attained than in tricalcium-aluminate suspensions, but it is still attained much more slowly than in suspensions of semi-aqueous gypsum. The rate at which maximum oversaturation is attained increases considerably with an increase of the concentration of the suspensions. The existence of stable oversaturations which are independent of the concentration of the suspension is also indicated by the results obtained by the quantitative determination of the concentrations of CaO and Al_2O_3 of the liquid phase of the suspension, provided that electric conductivity in this liquid phase has attained its maximum value. The samples used for analysis were chosen from the same suspension in which electric conductivity had been measured. The results obtained by analyses made it possible not only to determine the existence of stable oversaturations in the CA-suspensions, but also to characterize them quanti-

Card 2/4

SOY/20-124-4-41/67
 Causes of the Loss of Strength of the Monocalcium Aluminate
 Crystal Structure Formed at High Temperatures

tatively. According to the results obtained by the present paper CA is congruently solved: A concentration ratio of CaO and Al_2O_3 in the liquid phase of the suspension is equal to 1, which corresponds to their ratio in the arid compound. At the same time, the solubility of the hydrate $2 \text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$ (C₂A.aqu) was determined, which was produced by the hydration of CA at 20°. It amounted to 0.49 g C₂A per 1 l of the solution, which is in good agreement with the data found in publications (Ref 8). The concentration ratio of CaO and Al_2O_3 corresponds to the dicalcium aluminate ($\text{CaO}/\text{Al}_2\text{O}_3 = 2$). The authors carried out similar experiments also at 60°. The curves for the variation of electric conductivity also have a distinct maximum, which increases considerably with an increase in concentration of the suspension, and which becomes noticeable already after a shorter time. In order to be able to determine the amount of stable over-

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saturation, it is necessary considerably to reduce the rate at which CA is dissolved, without hereby varying the experimental temperature. For this purpose a surface-active substance was added to the suspension, viz. sulfite-alcohol-draff. Also at 60° stable oversaturations occur by the hydration of CA. The maximum value of concentrations does not depend on the concentration of the suspensions, but it is attained more quickly at higher concentrations. There are 3 figures, 1 table, and 11 references, 8 of which are Soviet.

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(Gypsum)

(Crystallization)

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