

KOLESOV, V.P.; ZENKOV, I.D.; ALEKHIN, S.P.; SKURATOV, S.M.

Hermetic calorimeter with magnetic stirrer. Zhur. fiz. khim.
36 no.4:910-912 Ap '62. (MIRA 15:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Calorimeters)

ALEKHIN, S. V.

ALEKHIN, S. V. — "Investigation of the Wear of Locomotive Parts in Connection with the Problem of Increasing the Intervals between Repairs." Min Railways USSR. Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obraztsov. Leningrad, 1955. (Dissertation for the Degree of Doctor in Technical Sciences)

No 1

SO: Knizhnaya Letopis', 1956, pp 102-122, 124

ALEKHIN, S.V., doktor tekhn.nauk; KRASKOVSKIY, Ye.Ya., kand.tekhn.
nauk, dots.

Experimental investigations of the operational conditions in
friction components of diesel rolling stock. Sbor.LIIZHT no.
160:115-125 '58. (MIRA 12:5)
(Diesel locomotives--Testing)

ALEKHIN, S.V., doktor tekhn.nauk; MAYSUROV, A.V., inzh.

Method of computing actual values of specific pressures in designing sliding bearings. Sbor.LIIZHT no.160:126-143 '58.
(MIRA 12:5)

(Bearings (Machinery))

ALEKHIN, S.V., prof., doktor tekhn.nauk (g.Leningrad); ZOLOTNIKOV,
I.M., dotsent, kand.tekhn.nauk (g. Leningrad); SIMONOV, P.M.,
inzh. (g.Sverdlovsk)

Lengthening the service life of rolling stock wheels. Zhel.-dor.
transp. 43 no.9:58-61 S '61. (MIRA 14:8)

1. Zamestitel' nachal'nika sluzhby vagonnogo khozyaystva
Sverdlovskoy dorogi (for Simonov).
(Car wheels--Maintenance and repair)

ALEKHIN, S.V.; ABRAMCHENKO, I.V.; PISAREV, N.G.; SHAROBAYKO, T.N.,
red.

[Metal cutting, machine tools and cutting tools] Rezanie
metallov, stanki i instrumenty; uchebnoe posobie. Leningrad,
Leningr. in-t inzhenerov zhel-dor. transporta, 1962.
128 p. (MIRA 16:4)

(Metal cutting) (Machine tools) (Metal-cutting tools)

ALEKHIN, S.V., doktor tekhn.nauk, prof.; ARUSTAMYAN, S.A., aspirant

Investigating the operation conditions of the splined joints
of the axial cardan transmission of diesel locomotives and
analyzing the methods for the lengthening of their service life.
Sbor. trud. LIIGHT no.197:3-24 '62. (MIRA 16:8)
(Diesel locomotives--Transmission devices)

ALEKHIN, S.V., doktor tekhn.nauk, prof.; ARUSTAMYAN, S.A., aspirant

Applying the polarization and optical method for determining the specific pressures in the teeth of the splined joints of diesel locomotive cardan transmissions. Sbor. trud. LIIZHT no.197: 25-37 '62. (MIRA 16:8)

(Diesel locomotives--Transmission devices)
(Strains and stresses)

ALEKHIN, S.V., doktor tekhn.nauk, prof.; SERGEYEVA, V.D., kand.fiziko-matem.nauk;
SYSOYEV, P.V., aspirant

Investigating the work hardening along the tread section of car
wheels in connection with the lengthening of their service life.
Sbor, trud. LIIZHT no.197:38-57 '62; (MIRA 16:8)
(Car wheels--Testing)

ALEKHIN, S.V., doktor tekhn.nauk, prof.; MAKAR'IN, A.M., aspirant

Investing the thin coatings made from polymer materials in
relation to their use for railroad rolling stock. Sbor.trud.
LIIZHT no.197:116-136 '62. (MIRA 16:8)
(Railroads--Equipment and supplies) (Plastic films)

ALEKHIN, S.V., doktor tekhn. nauk, prof.; GROKHOL'SKIY, N.F.,
kand. tekhn. nauk, dots.; ZOLOTNIKOV, I.M., kand. tekhn.
nauk, dots.; KOCHUGOV, P.I., kand. tekhn. nauk, dots.;
MALYSHEV, G.N., kand. tekhn. nauk, prof.; KHLEBNIKOV, M.S.,
kand. tekhn. nauk, retsenzent; FISAREV, N.G., kand. tekhn.
nauk, dots., retsenzent; ODING, I.A., kand. tekhn. nauk,
dots., retsenzent; KURENKOV, I.I., kand. tekhn. nauk,
retsenzent; PROKOF'YEVA, Ye.I., inzh., retsenzent; YAKOVLEV,
D.A., inzh., retsenzent; SERGEYEVA, I.N., red.

[Design of technological processes for the manufacture of
billets and parts for the rolling stock of railroads;
methodological manual on the technological aspects of di-
ploma projects prepared in institutions of higher learning
of railroad transportation] Proektirovanie tekhnologicheskikh
protsessov proizvodstva zagotovok i detalei podvizhnogo so-
stava zheleznnykh dorog; uchebno-metodicheskoe posobie po tekhn-
nologicheskoi chasti diplomnogo proektirovaniia v vuzakh zhe-
leznodorozhnogo transporta. Moskva, Vses. zaachnyi in-t in-
zhenerov zhel-dor. transporta. Pt.1. 1964. 202 p.
(MIRA 18:3)

ALEKHIN, V.

The people and the wheat of the virgin lands. Sov. profsoiuzy
17 no.19:10-11 0 '61. (MIRA 14:9)

1. Brigadir polevodchesko-traktornoy brigady, chlen rabochkoma
sovkhoza "Severnyy", Kazakhskaya SSR.
(Aktyubinsk Steppe--State farms)

ALEKHIN, Veniamin Konstantinovich, inzh., starshiy nauchnyy sotr.;
GODYNA, A.K., inzh., red.

[Prestressed concrete elements with internal anchoring of the clusters of reinforcement; practices of the "Cheliabmetallurgstroi" Trust and the Ural Branch of the Academy of Construction and Architecture of the U.S.S.R.] Predvaritel'no napriazhennye zhelezobetonnye konstruksii s vnutrennei ankerovkoi armaturnykh puchkov; opyt tresta "Cheliabmetallurgstroi" i Ural'skogo filiala Akademii stroitel'stva i arkhitektury SSSR. Moskva, Gosstroizdat, 1961. 28 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Ural'skiy filial Akademii stroitel'stva i arkhitektury SSSR (for Alekhin). (Prestressed concrete)

ALEKHIN, V.K., inzhener.

Experience in building precast concrete bridge blocks and culverts
on the Esil'-Turgai line. Transp. stroi. 7 no.1:6-8 Ja '57.
(MIRA 10.3)
(Precast concrete) (Railroads--Construction)

AUTHOR: Alekhin, V.K., Engineer SCV/100-58-5-4/15
 Perin, A.P., Instructor.

TITLE: Attachment to Excavator E-505 (Navesnoye oberudovaniye k ekskavatoru E-505).

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 5, Pp 14-16.

ABSTRACT: The above-mentioned attachment was constructed according to the design of Engineer Korotkov for excavator E-505 for the purpose of excavating foundation holes for electrical pylons. Figure 1 illustrates this excavator and Figure 2 same in action. This excavator's construction combines the bulldozer with the assembly crane. Figure 3 illustrates the excavator ready for rail-road transportation. Figure 4 illustrates the transmission scheme. The working mechanism of the attachment is powered by dynamo KDM-46. Figure 5 illustrates the position of the crane attachment in relation to the excavator's arm. The buckets of excavators MK-1 and ET-251 are used for digging. These are permanently fixed to the crane attachment. There are five figures and one table.

1. Earth moving equipment---Applications 2. Earth moving equipment
---Design

Card 1/1

ALAKHIN, V.K.

Constructing contact systems. Transp. stroi. 8 no.9:15-17 S '58.
(MIRA 11:10)

(Electric lines--Poles)

ALEKHIN, V.K., inzh.; PERIN, A.P., instruktor

Detachable equipment for the E-505 excavator. Mekh. stroi. 15
no.6:14-16 My '58. (MIRA 11:6)
(Excavating machinery)

ALEKHIN, V.K., inzh.

Using methods of the Moscow Institute of Railroad Engineering
in making prestressed span structures. Transp.stroi. 9
no.5:19-24 My '59. (MIRA 12:12)
(Prestressed concrete)

ALEKHIN, V.K., inzh.

Prestressed concrete beams for the floors of industrial
buildings in Chelyabinsk. Bet. i zhel.-bet. no.4:152-155
Ap '61. (MIRA 14:6)
(Girders) (Chelyabinsk--Prestressed concrete)

ALEKHIN, V.K., inzh.

Prestressed concrete trusses with internal anchoring of wire reinforcing bundles. Prom. stroi. 39 no.9:47-51 '61. (MIRA 14 10)
(Trusses) (Prestressed concrete) (Concrete reinforcement)

ALEKHIN, V. [Al'okhin, V.], inzh.

Manufacture of prestressed concrete elements with internal
anchoring of the clusters of reinforcement. Bud. mat. i konstr.
4 no.3:16-21 My-Je '62. (MIRA 15:5)
(Prestressed concrete)

ALEKHIN, V.K., inzh.

Experimental investigation of the inner anchoring of reinforcement strands. Sbor. trud. Inzh.-stroit. fak. Chel. politekh. inst. no.3: 99-116 '63. (MIRA 17:9)

1. Ural'skiy filial Akademii stroitel'stva i arkhitektury SSSR.

OATUL, A.A., dotsent, kand. tekhn. nauk; PON'KIN, K.N., assistant; OTNIK, I.T.
assistant; ALEXKHIN, V.K., inzh.

Utilizing, testing, and strengthening reinforced concrete rafter
beams with ordinary and with tensioned reinforcement. Sbor. trud.
Inzh.-stroi. fak. Chel. politekh. inst. no.3:159-182 '63.

(MIRA 17:9)

1. Ural'skiy filial Akademii stroitel'stva i arkhitektury SSSR.

FATEYEV, A.F., inzh.; ALEKHIN, V.K., inzh.

Slab foundations of residential buildings. Bet.i zhel.-bet.
8 no.4:187-189 Ap '62. (MIRA 15:5)
(Concrete footings)

ALEKHIN, V.K., inzh.

Restoration of precast reinforced concrete elements after a
fire. Prom. stroi. 40 no.5:53-56 '62. (MIRA 15:5)
(Precast concrete construction)
(Factories)

ALEKHIN, V.K., inzh.

Joint in the extended member of prestressed elements.
Bet. 1 zhel.-bet, 8 no.12:546-549 D '62. (MIRA 16:2)
(Prestressed concrete—Testing)

ALEKHIN, V.M., doktor tekhn. nauk

Determination of the degree of the characteristics equation and characteristic quantities of a linear electrical network using the topological features of its circuit diagram. Elektrichestvo no.9:16-22 S '64.

(MIRA 17:10)

1. Novocherkasskiy politekhnicheskii institut imeni Ordzhonikidze.

PRISTUPA, A.M.; ALKHXIN, V.E.

Manufacture of newsprint with reduced woodpulp content. Bum.prom. 31
no.10:15-18 0 '56. (MIRA 10:1)

1. Solikamskiy tseliyulozno-bumashnyy kombinat.
(Newsprint)

ALEKHIN, V. M.

ALEKHIN, V.M., dotsent, kandidat tekhnicheskikh nauk.

Proving the conditions of quasistationariness for alternating magnetic fields of electric machines. Trudy NPI 33:3-20 '56. (MLRA 10:9)
(Magnetic fields) (Electric machinery)

ALEKHIN, V.M. kandidat tekhnicheskikh nauk.

Surface effect of the current in conductors with rectangular cross
section. Nauch. trudy NPI 26:316-320 '55. (MLRA 9:12)
(Electric conductors)

ALEKHIN, V. M.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Calculation of the Electromagnetic Field in a Conductor of Rectangular Cross Section." 7 April 1952. An examination is made of the problem of methods of calculating the electromagnetic field in a conducting medium. A practical calculation method has been developed for determining the electromagnetic values at any point of the cross section of a long conductor of nonferromagnetic material which carries an ac current.

SO: M-1048, 28 Mar 56

SOV/44-58-4-2987

Translation from: Referativnyy zhurnal, Matematika, 1958,
Nr 4, p 81 (USSR)

AUTHOR: Alekhin, V.M. .

TITLE: Flow Distribution in a Long Cylinder as a Boundary
Value Problem (Raspredeleniye toka v dlinnom tsilindre
kak krayevaya zadacha)

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1956, Nr 43/57,
pp 65-79

ABSTRACT: In a quasi-stationary approximation, a study is
made of a plane problem in determining the electromagnetic
field in the flow of current through an infinite conductor of
arbitrary cross section. The solution is represented in the
form of infinite sums. The coefficients of expansion are
found from the conditions of joining the solutions on the sur-
face of the conductor in a finite number of points. There is
no discussion of the selection of the joining points. This same
method of solution is proposed also for the non-quasi-stationary
case.

Yu. N. Dnestrovskiy

Card 1/1

ALEKHIN, V.M., dotsent, kand. tekhn.nauk

Determining equivalent parameters of solid line conductors in multi-phase systems. Izv. vys. ucheb. zav.; elektromekh. no.1:5-20 '58.
(MIRA 11:6)

1. Novocherkasskiy politekhnicheskiy institut.
(Electric conductors) (Algorism)

ALEKHIN, V.M., dotsent, kand.tekhn.nauk

One more viewpoint in the problem of active resistance of conductors
in the presence of skin effect. Izv. vys. ucheb. zav.; elektromekh.
no.1:142-146 '58. (MIRA 11:6)

1. Novocherkasskiy politekhnicheskiy institut.
(Electric resistance)

ALEKHIN, V.M.

Boundary problems in the course on theoretical foundations of
electrical engineering. Izv. vys. ucheb. zav.; elektromekh.

1 no.4:109-121 '58.

(MIRA 11:8)

(Electric engineering)

ALEKHIN, Vladimir Maksimovich, doktor tekhn. nauk, prof.

Errors arising in the determination of the forces of a compressing effect. Izv. vys. ucheb. zav.; elektromekh. 7 no.8:1035-1036 '64.
(MIRA 17:10)

1. Rektor Taganrogskego radiotekhnicheskogo instituta.

ALEKHIN, Vladimir Maksimovich, kand.tekhn.nauk, dots.

~~Calculating equivalent~~ parameters of a long line. Izv. vys.
ucheb. zav.; elektromekh. 1 no.6:3-18 '58. (MIRA 11:9)

1. Zavednyushchiy kafedroy teoreticheskoy i obshchey elektro-
tekhniki Novocherkasskogo politekhnicheskogo instituta.
(Electric lines)

ALEKHIN, V.M.

Comparison and evaluation of different methods of electrical calculation
of current conductors. Izv. vys. ucheb. zav.; elektromekh. 3 no.11:
3-30 1960. (MIRA 14:2)

(Electric conductors)

ALEKHIN, Vladimir Maksimovich, kand.tekhn.nauk, dotsent

Example of calculating the electromagnetic field in a three-phase system of conductors with a rectangular cross section.
Izv. vys. ucheb. zav.; elektromekh. 4 no.4:3-32 '61.

(MIRA 14:7)

1. Zaveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki
Novocherkasskogo politekhnicheskogo instituta.
(Electric fields)
(Magnetic fields)

ALEKHIN, V.M.

Determination of the forces of a compressing effect. Izv.vys.ucheb.
zav.; elektromekh. 7 no.1:130-132 '64. (MIRA 17:9)

ACC NR: AP7002824

(N)

SOURCE CODE: UR/0410/66/000/005/0098/0106

AUTHOR: Alekhin, V. N. (Moscow)

ORG: none

TITLE: Designing nonlinear time interval voltage-to-number converters

SOURCE: Avtometriya, no. 5, 1966, 98-106

TOPIC TAGS: analog digital converter, computer component, computer input unit

ABSTRACT: The principles of sweep-balance voltage-to-number converter system types are surveyed. One type of basic unit in these systems is an A/D converter which changes the analog voltage input into a corresponding time interval. This interval in turn determines the time duration during which a pulse generator has access to a pulse counter, whose contents are proportional to the input quantity. To extend the range of allowable input voltages, a number of basic units are connected to the analog voltage source; each unit acts only in a certain range of inputs. The parallel acting arrangement of these basic units has a logic unit which determines which basic A/D converter contains a valid code. In the serial arrangement the logic unit is not necessary since the basic A/D converters act in sequence. The conversion time of this system is longer, however, than that of the parallel A/D converter system. When "conditionally continuous" A/D conversion is required, the basic A/D

Card 1/2

UDC: 681.142.621

ACC NR: AP7002824

converter can be modified by using a reversible counter whose contents follow the analog input voltage. Orig. art. has: 10 formulas and 4 figures.

SUB CODE: 09/ SUBM DATE: 24Jan66/ ORIG REF: 004

Card 2/2

9.7/00

S/019/62/000/009/016/125
A154/A126

AUTHORS: Rusin, G. S., Alekhin, V. N.

TITLE: A ferrite-transistor cell

PERIODICAL: Byulleten' izobreteniy, no. 9, 1962, 23

TEXT: Class 21a¹, 36. No. 146774 (691037/26 of December 29, 1960). A ferrite-transistor cell for performing logical operations is distinguished by the fact that, to ensure overlapping of the recording signal by the "inhibit" signal and increase the reliability, capacitors of different capacitance are connected in parallel to the collector-emitter junction. The one with the smaller capacitance to the cell performing the "inhibit" operation, and the one with the larger to the recording cell. ✓B

Card 1/1

ANDABURSKIY, S.I.; ALEKHIN, V.Ye.

Methods of avoiding chip scorching; letter to the editors. Bum.
prom. 31 no.5:22-23 My '56. (MLRA 9:8)

1. Solikamskiy tsellyulozno-bumzhnyy kombinat.
(Solikamsk--Woodpulp industry)

ALEKHIN, V.Ye.

Increase in the production of newsprint by means of equipment now
in operation. Bum.prom. 36 no.3:6-8 Mr '61. (MIRA 14.4)

1. Glavnyy tekhnolog Solikamskogo kombinata.
(Newsprint) (Papermaking machinery)

ALEKHIN, V. Ye.

Operation of a suction cylinder couch. Bum.prom. 36 no.4:18-20 Ap '61.
(MIRA 14:5)

1. Glavnyy tekhnolog Solikamskogo kombinata.
(Papermaking machinery)

ZIMINA, K.; KORZH, N. (Khar'kov); ALEXHIN, Yu., inz .-khimik (g. Kuybyshev)

Our mail. NTO no.2:62 F '59.

(MIRA 12:2)

1. Uchenyy sekretar' TSentral'nogo pravleniya bumazhnoy i derevoobrabatyvayushchey promyshlennosti (for Zimina). 2. Uchenyy sekretar' soveta pervichnoy organizatsii nauchno-tehnicheskogo obshchestva proyektnogo instituta "Ukrgidep" (for Korzh).

(Research, Industrial)

ALEKHIN, Yu.M., kandidat tekhnicheskikh nauk.

Method of computation of daily totals of the thermal balance of snow melting.
Sbor.trud.Len.Gidrometeorol.inst. no.2:3-41 '50. (MLRA 6:8)
(Snow)

ALEKHIN, Yuriy Mikhaylovich; VOSKRESENSKIY, K.P., otvetstvennyy redaktor;
SHASHILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskoy redaktor

[Short-range forecasts of stream-flow of lowland rivers] Kratko-
srochnye prognozy stoka na ravninnykh rekakh. Leningrad, Gidro-
meteorologicheskoe izd-vo, 1956. 265 p. (MLRA 10:1)
(Rivers)

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 99 (USSR) 14-57-7-14819

AUTHOR: Alekhin, Yu. M.

TITLE: Using Isochrons to Forecast and Calculate Slope
Runoff Duration (Ob uchete sklonovogo vremeni
dobeganiya pri prognqzakh stoka metodom izokhron)

PERIODICAL: Tr. Leningr. gidrometeorol. in-ta, 1956, Nr 4,
pp 29-43

ABSTRACT: This study investigates the possibilities of devising
a genetic flow formula by using a double system of
isochrons--one for surface runoff and the other for
channel flow. Quantity charts showing surface runoff
are based on the assumption that the vectors of
surface runoff are normal to the river channel and
that the speed of surface runoff is the same every-
where in the basin. The duration of surface runoff

Card 1/2.

Using Isochrons to Foreceast (Cont.)

14-57-7-14819

T_c is determined by the formula

$$T_0 = T - t + \Delta t,$$

where T is the total duration of runoff within a definite area, t is the duration of the channel flow, Δt is a time unit used in computations. **Slope** runoff durations calculated by this method have proved to be equal to 16 days for the Luga River and nine days for the Umzha River. The author gives practical recommendations for devising a double isochron system.

Card 2/2

G. K.

14-57-7-14849
Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 103 (USSR)

AUTHOR: Alekhin, Yu. M.

TITLE: Long-Term Forecasts of Hydrographic Characteristics
of a Spring Flood (Metod dolgosrochnogo prognoza
gidrografa vesennego polovod'ya)

PERIODICAL: Tr. Leningr. gidrometeorol. in-ta, 1956, Nr 4, pp 70-78

ABSTRACT: The article presents a method of forecasting, which is
called the "method of a type chart", and which makes
it possible to forecast the flow from one to three or
four months ahead. The method is based on the genetic
flow formula:

$$y_t = \sum_{i=1}^n f_i(x - p)_{t-i},$$

where y_t is the daily flow, f_i is the area involved,

Card 1/3

Long-Term Forecasts of Hydrographic Characteristics (Cont.) 14-57-7-14849

$(x - p) = r_t x$ is the difference between water available for the collecting system and the losses of water, r_t is the coefficient of flow. After introducing the total layer of flow (y_0) and the average flow coefficient for a flood (η_0), the equation will take on the form of:

$$y_t = y_0 \eta_t \eta_0^{-1} \sum_{i=1}^n f_i A_{t-i},$$

where $A_{t-i} = x_{t-i} / \sum x$. It is also taken that $h_t / \eta_0 = 1$. In order to forecast the flow, it is necessary to know the time distribution of A_{t-i} . Since a given type of circulation [according to G. Ya. Vangenheim (Vangengeym)] corresponds to a given set of weather conditions, the latter must be ascertained for the period of the variable A_{t-i} . For this purpose it is necessary to plot the graphs of $\sum A_{t-i} \% = f(t)$ for various types of the preceding atmospheric circulation. After this, A_{t-i} is distributed in time, and the flow

Card 2/3

14-57-7-14849

Long-Term Forecasts of Hydrographic Characteristics (Cont.)

forecast is made with the help of the formula shown above. The author includes examples of applying this method to the Luga and Velikaya Rivers.
Card 3/3

G. K.

14-57-7-14850

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 103 (USSR)

AUTHOR: Alekhin, Yu. M.

TITLE: Applying the Theory of Incidental Stationary Functions
to the Long-Term Flow Forecasting (Opyt primeneniya
teorii statsionarnykh sluchaynykh funktsiy v
dolgosrochnykh prognozakh stoka)

PERIODICAL: Tr. Leningrad. gidrometeorol. in-ta, 1956, Nr 4,
pp 225-234

ABSTRACT: This article represents a shortened version of a work
by A. M. Yaglom (Usp. mat. nauk, 1952, Nr 5). A
somewhat simplified extrapolational formula may be
presented in the form of:

$$x_t / m = f(x_t, \sum e^{-ak} \cdot x_{t-k}),$$

Card 1/3

14-57-7-14850

Applying the Theory of Incidental Stationary Functions (Cont.)

where x_i (sic) is the deviation of the mean annual flow modulus from the norm, m is the length of future time over which the forecast is made, a is a parameter. In order to forecast mean annual flow modulus, it is necessary to take the full value of the mean annual flow modulus for a given (last) year, and to select for it the sums of mean annual moduli for several preceding years, adjusting the values of these moduli with the factor e^{-ak} . Data from nine river courses were used in these calculations. These were: the Don (at Kalach, Kazanskaya, Liski), the Oka (at Murom, Kaluga), the Dnepr (at Kiyev), the Desna (at Chernigov), the Belaya (at Ufa, Birsk). For all these rivers, a varied between the limits of 0.1 to 0.3. The equation shown above was used in forecasting the mean annual modulus of the Belaya River at the town of Ufa for one year ahead. Correlation coefficient between the observed and the calculated values of the flow moduli was found to be $r = 0.68 \pm 0.05$. In view of the fact that at this time there are no genetical methods which could be used in flow forecasting for one year ahead, the author

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14-57-7-14850

Applying the Theory of Incidental Stationary Functions (Cont.)

considers the application of the statistical method as being practical and acceptable.

Card 3/3

G. K.

ALEKHIN, Yu. M.

Dynamic and statistical method of predicting geophysical
macroprocesses as exemplified by predictions of runoff. Trudy
Len. gidromet. inst. no.11:97-123 '61. (MIRA 16:1)

(Runoff)

AM4006610

BOOK EXPLOITATION

S/

Alekhin, Yuriy Mikhaylovich

Statistical forecasts in geophysics; dynamic-statistical method of predicting geophysical macroprocesses (Statisticheskiye prognozy* v geofizike; dinamiko-statisticheskiy metod prognoza geofizicheskikh makroprotsessov) [Leningrad] Izd-vo Leningr. univ., 1963. 84 p. illus., biblio. 1550 copies printed. At head of title: Leningradskiy ordena Lenina gosudarstvennyy universitet im. A. A. Zhdanova.

TOPIC TAGS: geophysical prediction, long range geophysical prediction, statistical geophysical analysis, geophysical macroprocesses, solar activity, air circulation, river runoff, natural macroprocesses

PURPOSE AND COVERAGE: This book is intended for geophysicists (hydrologists, meteorologists, oceanologists, and seismologists) engaged in work related to long-range forecasting of geophysical macroprocesses. The book deals with one of the basic problems

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AM4006610

of modern geophysics, that of the long-range prediction of such wide-scale geophysical processes as solar activity, air circulation, river runoff, and seismic activity. The universal method of predicting natural macroprocesses far in advance is supported statistically by the theory of linear extrapolation of probable processes.

TABLE OF CONTENTS:

Foreword -- 3

Ch. I. Fundamentals of statistical forecasts of large-scale macro-phenomena in nature

1. General remarks -- 5
2. Introduction to the theory of linear extrapolation of probable processes -- 7
3. Determinability of large-scale natural phenomena -- 12
4. Correlation functions of micro- and macroprocesses -- 22

Card 2/4

ALEKHINA, G. F.

"The Importance of the Secum in Foultry Digestion." Cand Biol Sci,
Odessa State U, Odessa, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

TSONEVA, T.N.; ALEKHINA, G.F.

Effect of muscular work on the motor function of the small intestine.
Nauch. zap. Od. ped. inst. 25 no.2:108-114 '61.

(MIRA 18:2)

ALEKHINA, G.V.; SHAGISULTANOVA, G.A.

Trivalent chromium compounds with methionine. Zhur. neorg.
khim. 10 no.1:68-71 Ja '65. (MIRA 18:11)

1. Submitted July 18, 1963.

KURNEVICH, G.I.; ALEKHINA, G.V.; BRAZHNİK, L.G.

Infrared spectra of chromium (III) compounds with
methionine. Zhur.neorg.khim. 10 no.8:1942-1943 Ag '65.
(MIRA 1941)

1. Submitted October 23, 1964.

S/081/62/000/006/034/117
B102/B101

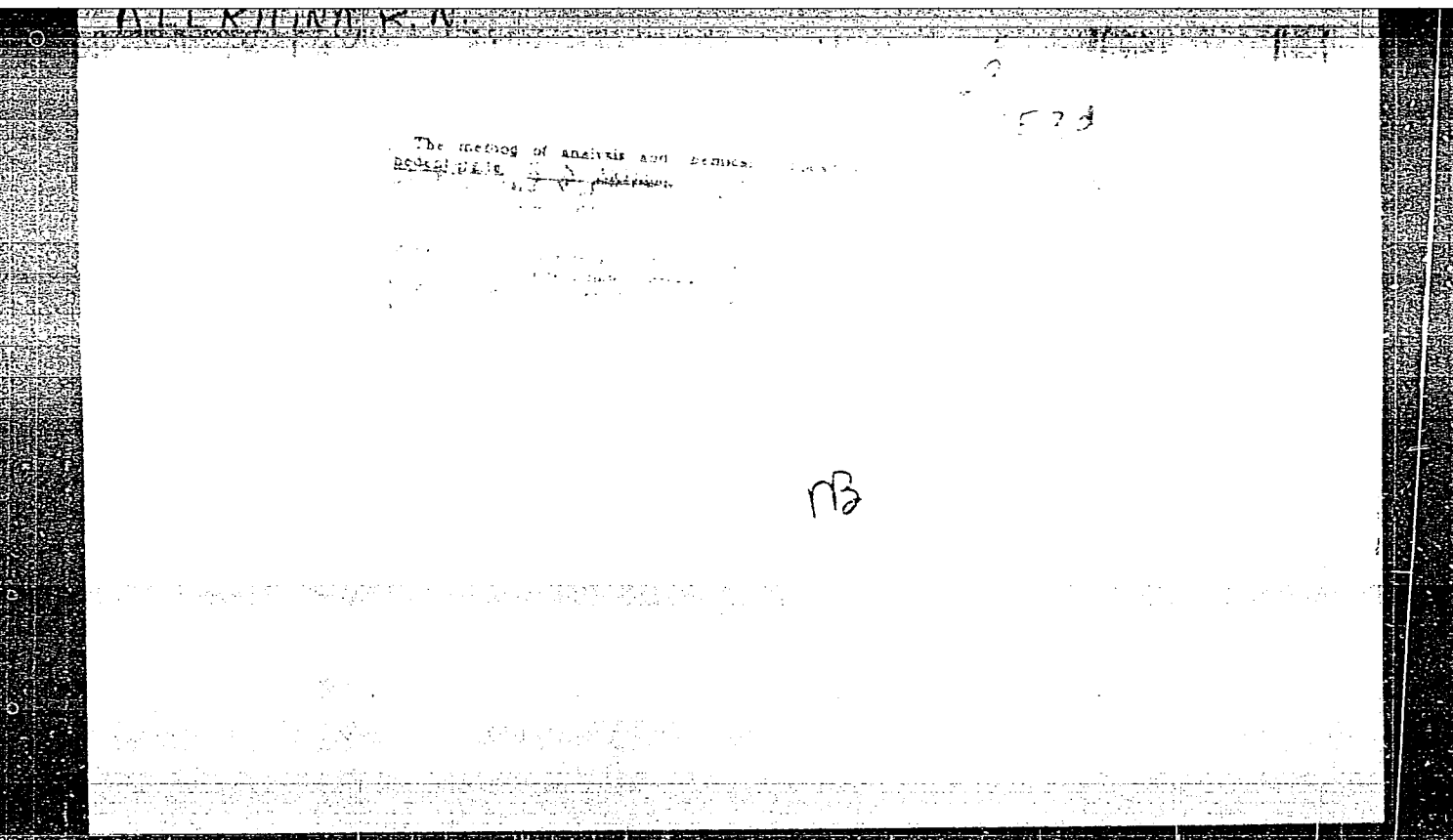
AUTHORS: Shaykind, S. P., Alekhina, I. A., Danilov, L. T.

TITLE: Polarographic determination of thorium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 131, abstract
6D96 (Tr. Leningr. tekhnol. in-ta im. Lensovet, no. 55, 1961,
173)

TEXT: An indirect polarographic method for Th determination
($2 \cdot 10^{-4}$ - $5 \cdot 10^{-6}$ moles/liter) is proposed basing on Th precipitation as
 $4 \text{ Th}(\text{IO}_3)_4 \cdot \text{KIO}_3$, treatment of the precipitate with alkaline solution (to
transfer IO_3^- into the solution), and polarographing of IO_3^- in the alkaline
solution. The wave height is directly proportional to the IO_3^- concentra-
tion in the range $5 \cdot 10^{-4}$ - $5 \cdot 10^{-6}$ moles/liter. [Abstracter's note:
Complete translation.]

Card 1/1



ALEKHINA, K.N.

137-58-6-11336

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 11 (USSR)

AUTHORS: Bayula, A.G., Alekhina, K.N.

TITLE: Flotation of Settling-tank Residues at Plants Milling Complex Ores (Flotatsiya osadkov otstoynikov obogatitel'nykh fabrik, pererabatyvayushchikh polimetallicheskiye rudy)

PERIODICAL: Soobshch. o nauchno-issled. rabotakh chlenov Primorsk. otd. Vses. khim. o-va im. D.I. Mendeleyeva, 1957, Nr 3, pp 153-157

ABSTRACT: A description is presented of the results of investigations in the separation by flotation of settling-tank residues (R) accumulated at one plant over a period of decades. The R contain large amounts of Pb, Cu, and particularly Zn. The investigated R are of high total and free acidity, neutralization of which requires 10-15 kg of sodium carbonate per t R. Desorption by activated carbon and roasting of the R was performed. Roasting (at 200°C) is the most efficient method for removing reactants from the surfaces of the particles. The consumption of reactants, in kg/t, is as follows: lead flotation: soda 2, ZnSO₄ 2, cyanide 0.2, ethyl xanthate 0.1, pine oil 0.06; zinc flotation - CuSO₄ 1,

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137-58-6-11336

Flotation of Settling-tank Residues at Plants Milling Complex Ores

ethyl xanthate 0.05, acidol 0.15. The Pb and Zn concentrates obtained after roasting and flotation contain 42-45% Pb or Zn respectively.

A.Sh.

1. Ores--Processing 2. Ores--Floation

Card 2/2

BAYULA, A.G.; SHMEL'KOVA, O.P.; ALEKHINA, K.N.

Flotation of liptobiolithic and humus types of coal. Soob.
DVMAN SSSR no.9:35-41 '58. (MIRA 12:4)

1. Dal'nevostochnyy filial im. V.L.Komarova AN SSSR.
(Coal preparation) (Flotation)

BAYULA, A.G.; ALEKHINA, K.N.

Application of the phase analysis of lead and zinc compounds to a study of mixed ores of nonferrous metals. Soob.DVFAN SSSR no.10:264-268 '59. (MIRA 13:11)

1. Dal'mevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(Lead ores) (Zinc ores)

KOSTERIN, A.V.; ALEKHINA, K.N.; KIZYURA, V.Ye.

Monazite of an unusual genesis. Soob.DVFAN SSSR no. 15:23-26 '62.
(MIRA 17:9)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya
AN SSSR.

KOSTERIN, A.V.; ALEKHINA, K.N.; KIZYURA, V.Ye.

Churchite from the Maritime Territory. Zap. Vses. min. ob-va 92
no.6:720-722 '63. (MIRA 18:3)

USSR / Human and Animal Physiology (Normal and Pathological).
Blood.

T-4

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60190

Author : Alokhina, L. S.

Inst : Azerbaydzhan Scientific Research Institute of Blood
Transfusion

Orig Pub : Sb. nauchn. tr. Azerb. n.-i. in-ta perolivaniya krovi,
1957, Vyp. 3, 95-101

Abstract : The following donors were examined: primary (I), those who had given blood up to 10 times (II), 30 times (III) and those above 30 (IV). In the whole blood (WB) of I before blood donation, the general sugar (S) content was 293 mg.%, after - up to 335 mg.% and, respectively, free S - 80 and 93, bound S - 213 and 242. In the serum of I, total S before donation was 248 mg.%, after - 303, free - 70 and 99, bound - 178 and 203. Total protein

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USSR / Human and Animal Physiology (Normal and Pathological)
Blood.

T-4

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60190

236. In the serum, total S was 279 mg.%, after - 269, free - 69 and 87, bound - 220 and 182. TP was 7.86%, after - 7.7, A - 4.86 and 4.6%, G - 3 and 3.1%. In I, after blood taking, the protein-bound S rose, in the other groups it fell. In III, the protein S changed to a smaller degree than in IV. In repeating donors the proteins and protein fractions changed insignificantly after blood letting. -- A. D. Beloborodova

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3(9)

AUTHORS:

Alekhina, L. S., Lugovenko, S. P.

SOV/50-59-8-11/19

TITLE:

Experience in the Organization of Work of the Ship Network
(Opyt organizatsii raboty sudovoy seti)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 8, pp 33-34 (USSR)

ABSTRACT:

The ship network of the Murmanskoye UGMS (Murmansk Hydrometeorological Service Administration) in the Barents Sea consists of 65 stations. They are installed on 8 trawlers in the northern part of the Atlantic Ocean, and on 10 hydrological ships, 31 fish-searching ships, 7 floating fishing bases, and 2 transport ships of the MMF (Ministry of the Navy of the USSR). Besides, observations are carried out from 7 stations by professional observers. Provisional stations are established on ships used for fishing from time to time. The ship stations are equipped with hydrometeorological instruments by the Navy itself via the navigation chambers, and the testing of instruments is made by the Byuro poverki UGMS (Testing Office of the Hydrometeorological Service Administration). Besides, the instruments are checked after each voyage by the inspectors. A double set of instruments is available on every ship. Telestations are installed on 12 ships. Ships return

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Experience in the Organization of Work of the
Ship Network

SOV/50-59-8-11/19

to harbour only after 1-5 months, and are visited by the inspector after every return. A full inspection of every ship is made 2-3 times a year, and a record is set up. The work for the ship station is controlled by the inspector also during the voyage. The inspectors are present daily at the service relief in the weather office. If errors are detected, the inspectors give instructions to the navigation observers by radio. - Reception of information from ships is not yet regular at present. The measures taken in this respect had the consequence that 48 stations are already working "well", and only 17 "satisfactorily". Early in 1958, the Upravleniye rybnoy promyshlennosti Murmanskogo sovnarkhoza (Administration of the Fishing Industry of the Murmansk sovnarkhoz) worked out a wage system for the observing personnel to encourage good observation results, and their reporting in due time to the coast.

Card 2/2

PAL'MIN, V.V.; ZHURAVSKAYA, N.K.; ALEKHINA, L.T.

Meat sterilization with gamma rays in the presence of the sodium salt of ascorbic acid and a nitrite. Izv.vys.ucheb. zav.; pishch.tekh. no.4:92-97 '59. (MIRA 13:2)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti. Kafedra biokhimii.
(Gamma rays--Physiological effect)
(Meat--Preservation)

PAL'MIN, V.V.; ZHURAVSKAYA, N.K.; ALEKHINA, L.T.

Biochemical changes in pork during its sterilization by gamma rays. Izv.vys.ucheb.zav.; pishch.tekh. no.6:91-94 '59.
(MIRA 13:5)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti. Kafedra biokhimii myasa. Kafedra tekhnologii myasa.

(Pork) (Radiation sterilization)

^{T.}
ALEKHINA, L.; ZHURAVSKAYA, N.; PAL'MIN, V.

Effect of radiation sterilization on certain properties of beef.
Mias. ind. SSSR 30 no.5:54-55 '59. (MIRA 13:1)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promysh-
lennosti.

(Beef--Preservation) (Radiation sterilization)

PAL'MIN, V.V.; ALEKHINA, L.T.

Study of the properties of myosin of muscle tissues irradiated
in vitro by Co⁶⁰. Radiobiologiya 1 no.2:206-211 '61. (MIRA 14:7)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy
promyshlennosti.

(GAMMA RAYS--PHYSIOLOGICAL EFFECT) (MYOSIN)

ZOTOV, V.P.; SILUYANOV, V.G.; GUGINA, Ye.F.; AUERMAN, L.Ya.; ALEKHINA, N.S.;
BEZZUBOV, A.D.; BODROV, V.A.; BUDNYI, A.V.; BURTSEV, Ye.L.;
VAYNSHTEYN, V.O.; GAVRILOV, A.N.; GORBATOV, V.M.; GRITSENKO, N.N.;
DOLGUSHEVA, L.I.; YEDYGENOV, K.Ye.; ZHURAVLEVA, S.S.; ZACHESKIN,
Ya.A.; IVKIN, A.P.; IZOTOV, A.K.; IL'INSKIY, N.A.; IRINARKHOVA,
A.M.; KARPENKO, A.K.; LYSOGOR, P.M.; LUPISH, A.T.; OLEYNIKOV, V.V.;
ORANZHEREYEVA, V.F.; PETROV, N.A.; PYATIBRATOV, M.A.; ROMANOV,
A.N.; RAUBE, P.V.; RYZHENKO, L.P.; SEMYKIN, A.A.; SHEFER, A.P.

G.IA.Ivanov; obituary. NTO 4 no.10:39 0 '62. (MIRA 15:9)
(Ivanov, Georgii Iakovlevich, 1897-1962)

ANDREYENKO, S.S.; ALEKHINA, N.D.

Changes in the photosynthesis and concentration of some carbohydrate forms in corn due to different pH values of the nutritive medium. Vest. Mosk. un. Ser. 6: Biol., pochv. 16 no.1:32-39 Ja-F '61. (MIRA 14:4)

1. Kafedra fiziologii rasteniy Moskovskogo universiteta.
(HYDROGEN-ION CONCENTRATION) (PHOTOSYNTHESIS)

ANDREYENKO, S.S.; ~~ALEKHINA, N.D.~~

Change in the nitrogen and free amino acid content of corn plants at different pH of the medium. Nauch.dokl.vys.shkoly; biol.nauki no.4:129-136 '62. (MIRA 15:10)

1. Rekomendovana kafedroy fiziologii rasteniy Moskovskogo gosudarstvennogo universiteta im. Lomonosova.
(PLANTS, EFFECT OF HYDROGEN-ION CONCENTRATION ON)
(NITROGEN METABOLISM)
(CORN (MAIZE))

ANDREYENKO, S.S.; ALEKHINA, N.D.; SHIRSHOVA, Ye.D.

Effect of the pH of the medium on amino acid metabolism in
corn plants. Nauch. dokl. vys. shkoly; biol. nauki no.4:
152-156 '63. (MIRA 16:11)

1. Rekomendovana kafedroy fiziologii rasteniy Moskovskogo
gosudarstvennogo universiteta im. Lomonosova.

*

LAPITSKAYA, O.I.; ALEKHINA, N.I.

Separating carbon black and tar from sludge raw stock from
the electropyrolysis of liquid hydrocarbons and nonsteady
voltage arcs. Trudy BashNII NP no.7:113-120 '64.

(MIRA 17:9)

MESHALKIN, Ye.N.; ALEKHINA, R.G.; DAMIR, Ye.A.; STADNIKOVA, Ye.I.

Fluothane anesthesia with hypothermia in operations on the
"dry" heart. Eksper.khir.i anest. 6 no.4:22-24 '61.

(MIRA 14:10)

(HEART--SURGERY)

(HYPOTHERMIA)

(FLUOTHANE)

S/081/61/000/019/076/085
B103/B147

AUTHORS: Rozovskaya, N. N., Bogatyrev, P. M., Nesterova, N. M.,
Alekhina, R. I.

TITLE: Copolymerization of alkyd resins with styrene in the presence
of peroxide initiators

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 507-508,
abstract 19P204 (Lakokrasochn. materialy i ikh primeneniye,
no. 4, 1960, 3-6)

TEXT: The authors studied, under laboratory and operational conditions, the effect of various peroxide initiators (benzoyl peroxide, isopropyl benzene hydroperoxide, phenyl isopropyl ethyl peroxide, dicumyl peroxide, tert-butyl perbenzoate, di-tert-butyl perterephthalate, and tert-butyl peroxide) and of oxygen on the copolymerization of alkyd resin (AR) with styrene (I) in xylene (II) as a medium. As AR they used the semifinished material ~~FLT~~-395 (FLT-395) (AR with 53% fat content modified with linseed oil and tung oil) and a laboratory sample of this semifinished material obtained in medium II by means of subsequent azeotropic distillation of

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Copolymerization of alkyd ...

S/081/61/000/019/076/085
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water. Copolymerization was performed in air or in an inert gas at 140°C. The amount of II in the reaction mixture was 50%. The peroxides were dissolved in II and introduced in amounts of 0.5-1.0% by weight of the reaction mass. The following data were determined during copolymerization: viscosity of the reaction mass, dry residue, content of free I, and saponification number. The copolymerization of AR with I was strongly accelerated in the presence of atmospheric O₂ while the molecular weight of the resulting polymers and copolymers dropped. In the case of an insufficient O₂ supply to the reaction mass, a small amount of peroxide must be introduced. The best initiator of AR copolymerization with I in solvent medium is tert-butyl peroxide which virtually causes complete conversion of I (> 97%) and considerably reduces the time of synthesis. The viscosity of the reaction mass strongly rises in the presence of tert-butyl peroxide. To obtain stable, non-gelatinizing varnishes, low-viscosity alkyds produced by the azeotropic method should be used (in the case of copolymerization in the presence of this peroxide). Peroxides with low decomposition temperature (benzoyl peroxide, isopropyl benzene hydroperoxide) increase the viscosity inconsiderably. Ordinary AR produced by the method of fusion can be used for the synthesis of alkyd styrene resins in the presence of these peroxides. [Abstracter's note: Complete Card 2/3

Copolymerization of alkyd ...

S/081/61/000/019/076/085
B103/B147

translation.]

Card 3/3.

Ostrovskiy, V.Yu.; ALEKHINA, R.G.

Electroencephalography in superficial fluothane anesthesia.
Khirurgiia 39 no.7:39-43 J1'63 (MIRA 16:12)

1. Iz anesteziologicheskogo otdeleniya (zav. Ye.I. Sadnikova)
Instituta eksperimental'noy biologii i meditsiny (dir.-prof.
Ye.N. Meshalkin) Sibirskogo otdeleniya AN SSSR.

ZHERNOV, I.Ye., doktor geolog-mineralog. nauk; ALEKHINA, T.P., inzh.

Practice and possible plans for the drainage of soft overburden
material at the Rozdol sulphur strip mine. Nauch. zap. Ukrniiproekta
no.10:96-107 '63. (MIRA 17:6)

MELESHKO, V.P.; ALUKHINA, V.A.; PAL'KINA, N.S.

Layer theory of computation of an ion-exchange column for the
exchange of two ions of the same valence. Trudy VGU 57:
55-60 (MIRA 13:5)

(Ion exchange)

RYABCHENKO, S.N.; ALEKHINA, V.I.; LISIN, D.M.

Interrelation of petrographic ingredients and germanium in
Siberian coals. Izv. Sib. otd. AN SSSR no.2:122-124 '62.
(MIRA 16:10)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

ALEKHINA, V.I.; RYABCHENKO, S.N.; LISIN, D.M.

Distribution of germanium during the pyrolysis of enriched coals.
Trudy Khim.-met.inst.Sib.otd. AN SSSR no.18:139-144 '63.

Problem of the distribution of germanium during the pyrolysis of
coal. Ibid.:145-150 (MIRA 17:4)

PAZIRUK, Karp Ivanovich; BURMAN, Mark Yefimovich; TSVETKOV, V.G.,
inzh., retsenzent; ALEKHINA, V.S., inzh., retsenzent;
MOROZOVA, I.I., red.; SOKOLOVA, I.A., tekhn. red.

[Production of potato starch on collective and state farms]
Proizvodstvo kartofel'nogo krakhmala v kolkhozakh i sovkh-
zakh. Moskva, Pishchepromizdat, 1963. 166 p.
(MIRA 17:4)

STAROBOGATOV, I.I.; ALEKHINA, Ye.M., redaktor; CHICHERIN, A.N., tekhnicheskiy redaktor.

[The make-up of regional newspapers] Ofornenie raionnoi gazety.
Moskva, Gos. izd-vo "Iskusstvo," 1954. 98 p. (MLBA 7:12)
(Newspapers) (Printing industry)

SEREBROVSKIY, Valentin Ivanovich; ALEKHNOVICH, Gennadiy Sergeyevich;

[Operational planning of piece and lot production according to the system of the Novocherkassk Electric Locomotive Plant using the EV-80-3 electronic computer] Operativnoe planirovanie individual'nogo i seriinogo proizvodstva po sisteme NEV3 s ispol'zovaniem EV-80-3. Leningrad, 1964. 27 p.

(MIRA 18:3)

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Courtesy Reference Bureau

ENTIRE 4/23/54

Translation, courtesy Reference Bureau

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ALEKHNovich, N.V., dotsent, kand.tekhn.nauk

Department of Peat. Sbor.nauch.trud.Bel.politekh.inst. no.66:51-59
'57. (MIRA 16:9)

1. Dekan torfyanogo fakul'teta Belorusskogo politekhnicheskogo in-
stituta imeni Stalina.