

Chromatographic separation of alkaloids of ergot ^F ⁶⁰
~~Modrzewski and H. Paszkiewicz (MgO, AcO, LiCl,
 Poland. *Acta Polon. Pharm.* 1953, 11, 551) (English
 summary) - Alkaloids of Polish ergot (and its cones) and
 dry ext were sepd and identified from 2 samples: ergot
 grown on fertilized ground, and naturally grown ergot. The
 defatted ergot (powdered, stored for 1 year prior to study)
 was extd. for 3 hrs. with Et₂O and the ext. treated with
 freshly pptd. MgO. Part of the ext. was used for chroma-
 tography, the rest for detn. of total alkaloids. The Et₂O
 ext. corresponding to 0.5 g. of defatted ergot was added
 dropwise from a dropping funnel on porous Watson cellulose
 in an evapg. dish. The procedure by Carlson (C.A. 48,
 1625) was followed. In ergot grown on fertilized ground,
 were found: ergotamine 45.5%, ergotamine, ergotamine
 - The total amt. of alkaloids was 26.5% less than that found by
 the Allport method. Naturally grown ergot contained: ergot-
 amine, ergotoxine, ergozine, ergotamine, ergometrine, and
 traces of ergometrine. The fraction insol. in H₂O contained
 ergotyn 14, ergozine 28, ergotamine 45.5, ergotamine 12.5%.
 The total amt. of alkaloids was 40% less than that found by
 the Allport method. Evidently 40% of alkaloids was de-
 compd. on storage to form the compd. which still gives the
 pos. reaction with the Allport reagent. The content of this
 compd. in fresh ergot is about 20%. The coned. ext. was
 studied as follows: 2 g. of substance was dild. with 10 ml.
 H₂O and passed under vacuum through a column filled with
 alumina, followed by 70 ml. Et₂O. The mixt. was shaken
 for 5 min., the Et₂O soln. sepd., evapd. on cellulose, and
 studied as above. The dry ext. (20 g.) was dissolved in 8
 ml. 1:1 95% EtOH and H₂O, shaken 10 min., heated at 45°
 5 min., cooled, filtered, and 3.5 ml. (± 1.37 g. of dry ext.)
 was passed through the alumina column to be studied as
 above. In both coned. and dry ext. the content of ergo-
 toxine was lower than in the initial material; ergotamine was
 higher. A. Szaban~~

Handwritten initials/signature

CHIRKIEWICZ, HENRYK

POL.

The colorimetric determination of alkaloids of ergot.
by comparing the color obtained in the ...

PANKIEWICZ, Henryk

Colorimetric determination of ergot alkaloids. Acta Poloniae pharm.
11 no.3:195-198 1954.

1. Z Zakładu Farmacji Stosowanej Akademii Medycznej w Łodzi.
Kierownik: prof. F. Modrzejewski.
(ERGOT ALKALOIDS, determination,
colorimetry)
(COLORIMETRY,
of ergot alkaloids)

POL

Energy

P. T. A.

484 021 43 068 9 : 020.123
Kozłowski A., Pańkiewicz T., Waste Heat Utilization of Internal Com-
bustion Engines on Ships.

„Wykorzystanie ciepła spalin odbołowych silników spalnowych
na statkach”. Technika Morza i Wybrzeża, No. 12, 1950, pp. 357-363,
7 figs.

Description of the general heat loss in combustion products
and of the possibility of partial utilization of this heat. After quoting
details pertaining to temperature and volume of combustion products,
a cycle for thermal calculation is quoted. The article concludes with
examples of heat utilization, with calculations and a description of
the design of special boilers for waste heat fuel.

CHINAREV, A.; NIKIFOROV, V.; MARIYENBAKH, L., prof., doktor tekhn.nauk;
PANKIN, A., prof., doktor tekhn.nauk

Moscow engineers need a club. NTO no.7:55 Jy '59.
(MIRA 12:11)

1. Predsedatel' Moskovskogo oblastnogo soveta nauchno-tekhnicheskikh obshchestv (for Chinarev). 2. Predsedatel' tekhniko-ekonomicheskogo soveta Moskovskogo (gorodskogo) soveta narodnogo khozyaystva; predsedatel' oblastnogo pravleniya nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Nikiforov). 3. Mashinostroitel'nyy institut; chlen Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Mariyenbakh). 4. Avtomekhanicheskiy institut, chlen Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Pankin).

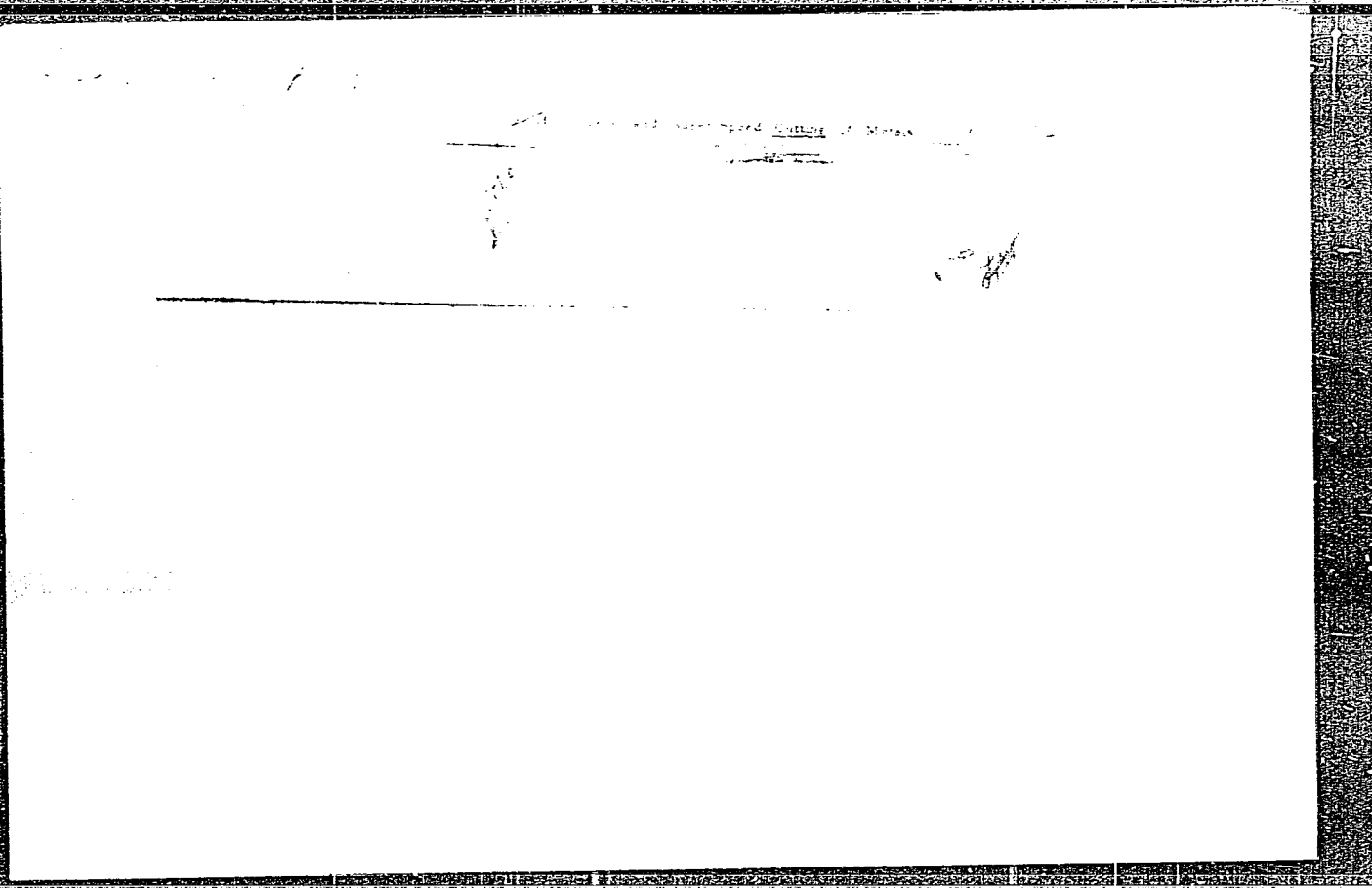
(Moscow--Research, Industrial)

VOROB'YEV, B.S.; LAPKIN, I.Yu.; PAN'KIV, A.M.; STERLIN, B.P.; TKHORZHEVSKIY, S.A.

Geology of the southern slope of the Voronezh massif in the Charkov region. *Sov. geol.* 6 no.4:129-133 Ap '63. (MIRA 16:4)

1. Trest "Khar'kovneftegazrazvedka" i Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta gaza i iskusstvennogo zhidkogo topliva.

(Charkov region—Geology)



MAKAREVICH, B.K.; MIKHEYEV, V.M.; TIKHVINSKIY, V.I.; PANKIN, A.V.,
doktor tekhn. nauk, retsenzent; FEDOROV, V.N., dots.,
retsenzent; MAKOVSKIY, G.M., red.; ABUMOVA, Ye.S., tekhn.
red.

[Reconditioning metal-cutting tools] Vosstanovlenie re-
zhushchego instrumenta. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1948. 174 p. (MIRA 15:4)
(Metal-cutting tools--Maintenance and repair)

PANKIN, Aleksandr Vasil'evich, 1876-

Basic problems concerning the best methods of metal-cutting Moskva, Gos. nauch.-tekh. izd-vo mashinostroit. lit-ry, 1948. 258 p. (48-25157)

TJ1230.P35

PANKIN, A. V.

36707. Teoriya Rezniza Professora Zvorykina L ((Novaya)) Teoriya Merchenta. M. E. Sbornik Trudov Tbilis. In-Ta Inzhenerov Zh-D Transporta Im Lenina XVII - XVIII, 1948 s 83-89.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949.

GENERAL INDEX

PROCESSES AND PROPERTIES INDEX

A

200-331. Theory of Cutting of Prof. K. A. Zvorykin and "New" Theory of M. E. Merchant. (In Russian.) A. Y. Dan. Min. Stanki i Instrument. (Tools and Instruments), v. 19, April 1948, p. 1-3.

After comparative investigation of Zvorykin's theory (published in 1902) and Merchant's theory (developed in 1944), the author concludes that the latter theory is the same as the former, with only slight modifications.

G

МЕТАЛЛУРГИЧЕСКАЯ ЛИТЕРАТУРА

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PANKIN, A.V.

RYZHKOV, D., redaktor; PANKIN, A.V., professor, redaktor; KELIKSON, M.Z.,
inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor; TIKHONOV,
A.Ya., tekhnicheskiy redaktor

[Economizing materials in machinery repair and toolmaking shops]
Ekonomiia materialov v mekhanicheskikh, remontno-mekhanicheskikh
i instrumental'nykh tsekhakh. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. i sudostroit. lit-ry, 1953. 234 p. [Microfilm]
(Machine-shop practice) (MLRA 7:10)

PANKIN, A.V., doktor tekhnicheskikh nauk, redaktor; POPOVA, S.M.,
tekhnicheskii redaktor.

[Cooling and lubricating fluids; their beneficial influence
on the cutting of metals; collection] Okhlazhdaiushche-smazy-
vaiushchie zhidkosti; vliianie na obrabatyvaemost' metallov
rezaniem; sbornik. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
i sudostroit. lit-ry, 1954. 185 p. (MLRA 7:8)
(Metalworking lubricants)

PANKIN, A.V.

ARTAMONOV, A.Ya., kandidat tekhnicheskikh nauk; PANKIN, A.V., professor, retsenzent; BEISEL'MAN, R.D., inzhener, redaktor; ~~BAKHMIDIN, A.F.~~, inzhener, redaktor; UVAROVA, A.F., tekhnicheskiy redaktor.

[Research on the workability of high-strength crude iron] Issledovanie obrabatyvaemosti vysokoprochnogo chuguna. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1955. 133 p.
(Iron--Metallurgy) (MLRA 8:10)
(Metal cutting)

LEVACHEV, Vasilii Andreyevich; MILLER, Edmund Ernestovich; PANKIN, A.V.,
professor, doktor tekhnicheskikh nauk, redaktor; MELIDOVA, E.S.,
redaktor; KRASNAYA, A.K., tekhnicheskii redaktor

[Manual on production norms for shipbuilding and ship repair work
in the navy] Spravochnik po tekhnicheskomu normirovaniu sudostroitel'-
nykh i sudoremontnykh rabot na morskoi flote. Pod red. A.V.Pankina.
Moskva, Izd-vo "Morskoi transport," 1955. 450 p. [Microfilm] (MLRA 8:2)
(Shipbuilding)

S/123/61/000/001/008/015
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 1, p. 21,
1B185

AUTHOR: Pankin, A. V.

TITLE: A Rapid Method for Determining the Optimum Cutting Conditions by
Using the Interconnection Between Wear-, Temperature-, and Economy
Criteria

PERIODICAL: V sb.: "Teplovyye yavleniya pri obrabotke metallov rezaniyem".
Moscow, 1959, pp. 178-194, 11

TEXT: The sequence is described of the sequence of operations for determin-
ing the optimum conditions of cutting by the following methods: the speed -
endurance tests, rapid wear - speed tests, face grinding, and rapid temperature
investigations. It turned out that the speed - endurance method is expensive and
time consuming, and the correlations obtained by this method cannot be taken as
the basis of a physical theory of cutting. The method of the rapid wear - speed
tests reduces the number of the experimental points and is an attempt to elucidate
the physical-mechanical essence of the cutting process based on the physical

Card 1/2

ТРАНСЛАТОРСКОЕ ИЗДАНИЕ 10/1952

Академия наук СССР. Комиссия по технологической терминологии
Сарабелла Шароховича сплавов (Тreatment of Heat-Resistant Alloys) Moscow,
144-vo M SSSR, 1960. 231 p., 3,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Issued by order of the Academy of Sciences of the USSR.

Author: M. I. V. I. Dikovich, Academician; Ed. of Publishing House: V. A. Kozlov;
Tech. Ed.: V. V. Brizgalov.

PURPOSE: This collection of papers is intended to summarize current information
on the treatment of heat-resistant alloys with a view toward coordination fur-
ther research.

CONTENTS: The book is a collection of papers presented at the Conference on Heat-
Resistant Alloys, held 14-21 December 1957 by the Commission on Heat-Resistant
Alloys of the Academy of Sciences of the USSR (Institute of
Mechanical Science, Academy of Sciences USSR). The thirty papers in the
collection deal with the casting, pressure working, welding, and cutting of
heat-resistant alloys. No personalities are mentioned. References accompany
several of the articles.

Кудрявцев, И. В., and Зил, А. И. Влияние метода горячей обработки на свойства жаропрочных сталей при высоких температурах 41
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PARKIN, A.V.

PHN K 10, H.V.

PHASE I BOOK EXPLOITATION

SOV/5291

Soveshchaniye po kompleksnoy mekhanizatsii i avtomatizatsii tekhnologicheskikh protsessov v mashinostroyeni. 2d, Moscow, 1956

Avtomatizatsiya mashinostroitel'nykh protsessov. t. III: Obrabotka rezaniyem i obshchiye voprosy avtomatizatsii (Automation of Machine-Building Processes. v. 3: Metal Cutting and General Automation Problems) Moscow, Izd-vo AN SSSR, 1960. 296 p. (Series: Its: Trudy, t. 3) 4,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologii mashinostroyeniya.

Resp. Ed.: V. I. Dikushin, Academician; Ed. of Publishing House: V. A. Kotov; Tech. Ed.: I. F. Kuz'min.

PURPOSE: This collection of articles is intended for technical personnel concerned with the automation of the machine industry.

COVERAGE: This is Volume III of the transactions of the Second Conference on the Full Mechanization and Automation of Manufacturing Processes in the Machine Industry, held September 25-29,

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Automation of Machine-Building Processes (Cont.)

SOV/5291

1956. The transactions have been published in three volumes. Volume I deals with the hot pressworking of metals, and volume II, with the actuation and control of machines. The present volume deals with the automation of metal machining and work-hardening, and with general problems encountered in automation. The transactions on the automation of metal-machining processes were published under the supervision of F. S. Dem'yanok and A. M. Karatygin, and those on the automation of work-hardening processes, under the supervision of E. A. Satel' and M. O. Yakobson. No personalities are mentioned. There are no references.

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AVAILABLE: Library of Congress		

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7/29/61

31223

S/123/61/000/020/016/035
A004/A101

1.1100

AUTHORS: Pankin, A. V., Fitsner, L. N.

TITLE: Device for determining the optimum cutting conditions on lathes

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 20, 1961, 44-45,
abstract 20B240 (V sb. "Avtomatiz. mashinostroit. protsessov",
v. 3, Moscow, AN SSSR, 1960, 20-31)

TEXT: The authors describe the design of a device making it possible to determine the operation conditions of lathes in such a way as to ensure their maximum efficiency. They present an analytical method of solving the problem of determining the optimum cutting conditions. The method is based on the solution of six main equations connected with the kinematics and kinetostatics of the lathe, kinetostatics of cutting, power input and conditions of maximum efficiency of the system lathe - tool. The device operation is based on the solution of these equations to find the number of revolutions and feed. The authors present a basic diagram of the device, give the setting order and the method of using the device. It is pointed out that the error in device readings

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A004/A101

Device for determining the optimum ...

does not exceed 2 - 4% in comparison with the analytical calculation method.
There are 6 figures and 1 table.

L. Bozin

[Abstracter's note: Complete translation]

Card 2/2

PANKIN, A. V., prof.

Mechanization and automation of the machining of parts in the
manufacture of machinery. MTO 2 no.6:32-35 Je '60. (MIRA 14:2)
(Machinery industry--Technological innovations)
(Automation)

PHASE I BOOK EXPLOITATION SOV/5761

Pankin, Aleksandr Vasil'yevich, Professor, Doctor of Technical Sciences

Obrabotka metallov rezaniyem (Metal Machining) Moscow, Mashgiz, 1961. 520 p. Errata slip inserted. 40,000 copies printed.

Reviewer: P. A. Kunin, Engineer; Tech. Ed.: A. Ya. Tikhanov; Managing Ed. for Literature on the Cold Working of Metals and Machine-Tool Making: V. V. Rzhavinskiy, Engineer.

PURPOSE: This textbook is intended for students in mechanical-engineering schools of higher education.

COVERAGE: Basic considerations, concepts, and definitions in the theory of metal cutting are presented. Attention is given to the following: deformation phenomena in the layer of metal being removed; friction generation and the removal of heat in metal machining; machining smoothness and accuracy; cutting alloys; cutting-tool geometry and wear; the mechanics of the

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2

Metal Machining

SOV/5761

cutting process; fundamental factors in the cutting process as they apply to the characteristic features of turning; reciprocal-tool machining; drilling, milling, grinding, and other types of metal-cutting processes; basic trends in the development of speed machining of blanks on metal-cutting machine tools; and methods of determining rates of the highest productivity for various types of machining processes in lot and mass production. No personalities are mentioned. There are 162 references: 158 Soviet, 2 English, and 2 German.

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~~PANKIN, A.V., doktor tekhn. nauk, prof.[deceased]; BURDOV, D.N.,
inzh.; ORLOV, I.V., inzh., retsenzent~~

[Manufacture and use of the new cooling and lubricating
fluids] Izgotovlenie i primeneniye novykh okhlazhdaushche-
smazyvaiushchikh zhidkosteĭ. Moskva, Izd-vo "Mashino-
stroeniye," 1964. 175 p. (MIRA 17:6)

PANKIN, A.V., doktor tekhn. nauk, zasluzhennyy deyatel'nauki i
tekhniki [deceased]; ARTEM'YEV, B.P.

Lapping tooth surfaces of hypoid gears. Avt. prom. 30
no.5:41-42 My '64. (MIRA 17:9)

1. Moskovskiy avtomekhanicheskiy institut.

GOROKHOV, Petr Kuz'mich; PANKIN, A.V., red.

[Russian-German radio engineering dictionary] Russko-
nemetskii radiotekhnicheskii slovar'. Izd.2., ispr.
Moskva, Sovetskaia entsiklopediia, 1965. 405 p.
(MIRA 18:6)

BOGOMOLOV, B.A., red.; BARANOV, A.M., red.; MURONETS, I.I., red.;
GUSEV, N.P., red.; PANKIN, A.V., red.; VACHAYEVA, Z.P.,
red.-leksikograf; VILENSKAYA, O.V., red.l-leksigogr.;
ARTEMOV, L.V., red.-leksikogr.; YEREMINA, N.N., mlad. red.;
VANSOVSKAYA, L.Ye., mlad. red.; CHEKRYZHOV, P.F., spets.red.;
PLAKSHE, L.Yu., tekhn. red.

[German-Russian polytechnical dictionary] Nemetsko-russkii
politekhmicheskii slovar'. Podgotovleno pri redaktsionnom
uchastii izdatel'stva "Tekhnika" GDR. Moskva, Glavnaiia red.
inostrannykh nauchno-tekhn. slovarei Fizmatgiza, 1963. 812 p.
(MIRA 17:1)

ABELEV, Yu.M.; DONDYSH, A.M.; IVANOV, Yu.K.; KRUTOV, V.I.; LISOVSKIY, V.P.;
PANKIN, G.N.

Experience in correcting the tilt of a large-panel 1-480-P
series apartment house after the sagging of the foundation.
Osn., fund. i mekh. grun. 7 no.3:23-25 '65.

(MIRA 18:6)

PANKIN, IVAN ALEKSANDROVICH

PHASE I BOOK EXPLOITATION

395

Zazhirey, Dmitriy Ivanovich; Pankin, Ivan Aleksandrovich; and Semenov, Sergey Stepanovich

Geodeziya (Geodesy) Moscow, Avtotransizdat, 1957. 146 p. 8,000 copies printed.

Ed.: Mordvinov, V.S.; Kogan, F.L.

PURPOSE: This is a textbook approved by the RSFSR Ministry of Highways and Motor Transport, devoted to problems of road building. The book is intended for use in schools training highway engineering personnel.

COVERAGE: The book is a practical study of geodetic problems related to road building, such as the orientation of lines, the measurement of horizontal angles, spotting of lines on the ground, leveling and lay-out work. The book cites numerous practical examples to illustrate certain theoretical principles. The following instruments

Card 1/8

APPROVED FOR RELEASE: Tuesday, August 01, 2000 395CIA-RDP86-00513R001239

Geodesy

are discussed: clinometer (gradient recorder), Adrianov compass, Stefan compass, transit, goniometer, three leveling devices, plane table. There are 102 figures, 9 tables (in the appendix) and 14 Soviet references.

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PANKIN, M., jurist

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(MIRA 14:3)

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(Economic conditions)

ZIL'BERMAN, S., inzh.; BLUDNOV, V.; PAN'KIN, N., inzh.; BEN'YAMINOV, S., inzh.;
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Exchange of experiences. Avt. transp. 42 no.9:51-54 S '64. (MIRA 17:11)

Pan'Kin, N

NEKHAYEVSKIY, N.; PAN'KIN, N.

What kind of garage equipment is needed by automotive transport
units? Avt.transp. 35 no.11:13-14 N '57. (MIRA 10:12)
(Service stations)

PAN'KIN, N., inzh.

Repairing front axles. Avt.transp. 39 no.10:49-50 0 '61.
(MIRA 14:10)

(Motor vehicles--Axles)

PAN'KIN, N.A., dotsent, kand. tekhn. nauk

Integration of the equation of the unsteady motion of a train.
Trudy MIIT no.195:77-83 '64.

Approximative integration of the nonlinear equation of the
train motion. Ibid.:84-86 (MIRA 18:9)

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Approximation method for integrating wave equations. Trudy MIIT
no.102:118-123 '59. (MIRA 12:10)
(Differential equations, Partial)

PAN'KIN, N.A., kand.tekhn.nauk

Train movement during steady braking. Trudy MIIT no.102:58-65
'59. (MIRA 12:10)

(Railroads--Brakes)

SHAMSUTDINOV, R.; PAN'KIN, N., inzh.; DUBYAGO, P.; BELETSKIY, M., inzh.;
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Exchange of experience. Avt. transp. 42 no.10:53-54 0 '64.
(MIRA 17:11)

PAN'KIN, N.A.

Integration of a linear differential equation of the second order with
variable coefficients. Izv. vys. ucheb. zav.: mat. no.4:122-125 '59.
(MIRA 12:11)

1. Vsesoyuznyy zaachnyy institut inzhenerov zheleznodorozhnogo
transporta.

(Differential equations, Linear)

16(1)

AUTHOR:

Pan'kin, N.A.

SOV/140-59-4-16/26

TITLE:

On the Integration of a Linear Differential Equation of Second Order With Variable Coefficients

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 4, pp 122 - 125 (USSR)

ABSTRACT:

For the integration of the equation

$$\ddot{x} + f(t)\dot{x} + \omega^2 x = 0,$$

where $f(t)$ is a continuous function, the author proposes an approximation method by which the solution is obtained with the set up $x = A \exp(-\delta t) \sin(\omega_1 t + \varphi)$ and by de-

termining A and φ as functions of t .

There are 2 non-Soviet references, 1 of which is English, and 1 German.

ASSOCIATION: Vsesoyuznyy zaachnyy institut inzhenerov zheleznodorozhnogo transporta (All-Union Correspondence Institute for Engineers of Railroad Transport)

SUBMITTED: May 26, 1958

Card 1/1

GOLUBOV, M.M.; LEGLYDA, N.F.; ZAKHAROV, A.Ye.; FADEYEV, A.Yu.; PAN'KIN, N.I.;
SAPRYGIN, Kh.M.; NOSOV, V.S.; VOL'TER, Ye.V.; SHUL'GA, Ye.A.;
MIROSHNICHENKO, S.I.

Effect of the rate of plate cooling on the quality of the metal
after rolling. Met. i gornorud. prom. no.1:33-36 Ja-F '65.
(MIRA 18:3)

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Noncontact transducer. Mekh. i avtom. proizvod. 18 no.12:34 D '64.
(MIRA 18:3)

PANKIN, O.M.; KRASNYKH, G.B., inzh.

They write to us. Transp. stroi. 13 no.2:63 F '63. (MIRA 16:3)

1. Glavnyy inzhener stroitel'no-montazhnogo poyezda No.294
tresta Gortransstroy (for Pankin).
(Railroad engineering)

1. FANKIN, P.
2. USSR (600)
4. Moving-Picture Projectors
7. Elimination of interference in broad-film portable moving picture projectors, Kinomekhanik, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

PANKIN, P.I., inzh.

Equipment to determine the strength of raw material mixtures
under compression. Lit. proizv. no.12:36-37 D '65.

(MIRA 18:12)

PANKIN, P. I.

Industrial sampling for the rapid determination of the degree of
gas saturation of liquid nonferrous alloys. Lit. proizv. no.10:
45-46 0 '63. (MIRA 16:12)

PANKIN, P.I.

Rapid-drying mold wash. Lit. proizv. no.10:38-39 0 '63.

(MIRA 16:12)

YEREMENKO, N.A.; PANKINA, R.G.

Isotopic composition of the petroleum sulfurs of the Fashiya horizon. Neftegaz. geol. i geofiz. no. 5:50-52 '63.

(MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

PANKIN, R.G.

N.A. YEREMENKO, R.G. PANKIN (USSR)

"Alteration of isotopic composition of sulphur in oils and gases depending on the age of containing sediments."

Report presented at the Conference on Chemistry of the Earth's Crust, Moscow, 14-19 Mar 63.

PANKIN, V.

Is it worth it to make noise across the country? Izobr.i rats.
no.1:22 '63. (MIRA 16:3)

(Moscow--Technological innovations)

YENIKEYEV, Kh.M.; KOZLOV, D.N.; KRZHILIN, M.P.; MEZHUYEV, B.N.;
NALCHAN, A.G.; NIKULIN, A.I.; PANKIN, V.A.; SHAVIN, G.F.;
LESNICHENKO, I.I., red. izd-va; SMIRNOVA, G.V., tekhn.
red.

[Metal-cutting machines; kinematic adjustment of metal-
cutting machines] Metallorezhushchie stanki; kinematicheskaya
nastroika metallorezhushchikh stankov. Pod red. A.G.Nalchana.
Moskva, Mashgiz, 1962. 179 p. (MIRA 16:2)

1. Moscow. Vsesoyuznyy zachnyy mashinostroitel'nyy institut.
Kafedra "Metallorezhushchie stanki i instrumenty." 2. Prepo-
davately kafedry "Metallorezhushchiye stanki i instrumenty"
Vsesoyuznogo Zachnogo Mashinostroitel'nogo instituta (for
all except Lesnichenko, Smirnova).
(Metal cutting) (Machinery, Kinematics of)

S/136/63/000/003/002/004
E193/E383

AUTHORS:

Kirpa, I.G., Kolesnikov, N.P., Pankin, V.A. and
Shishkin, Yu.A.

TITLE:

Investigation of the energy and force parameters in
the rolling of aluminum-clad copper

PERIODICAL:

Tsvetnyye metally, no. 3, 1963, 60 - 65

TEXT:

The experimental specimens consisted of copper plates, 320 - 570 mm wide and 414 - 560 mm long, enclosed between two slightly larger aluminum plates, the whole assembly being held together by two rivets. Four types of the sandwich were used in the tests with an Al-Cu-Al thickness ratio of 2.56:9.7:2.56 mm, 1.4:9.7:1.4 mm, 2.56:5.75:2.56 mm and 1.4:5.75:1.4 mm. The cold-rolling experiments were conducted on a four-high reversible stand 2840 with working and backing rolls of 620 and 1 370 mm in diameter respectively. Formation of bond between the sandwich components was ensured by giving it a reduction of 65 - 75% in one pass. In a few cases the same reduction was attained in two passes. The following parameters were determined in each experiment: roll pressure; current in the main motor; voltage in the main motor;

Card 1/2

Investigation of

S/156/63/000/003/002/004
E193/E383

driving current; main motor speed; temperature of the metal after rolling. The strength of the bond between the Cu core and Al cladding was determined by bending tests; in addition, tensile tests were conducted on test pieces cut from each specimen.

Conclusions: 1) the maximum roll force recorded was 1 140 tons, i.e. 33% of the force permissible for the stand 2840. 2) The roll force under conditions of steady rolling was 950 tons.

3) The average roll pressure varied between 25.4 and 48.1 kg/mm².

4) Comparison of the experimental data with values calculated from several known formulas showed that the formula due to Rokotyan gave results in closest agreement with the experiment.

5) The strength of bond and the mechanical properties of the final product were not significantly changed by effecting the required reduction in thickness in two instead of in one pass.

This means that a wider range of the existing rolling equipment can be used for the fabrication of Al-clad Cu. There are 3 figures and 4 tables.

Card 2/2

15930-65 EWP(L)/EWP(A)/EWA(O)/EWA(N)/EWP(M)/EWP(F)/EWP(D)/EWA(O)/EWP(L)/EWP(A)
EWP(L) E-11 NJW/JG/HR
ACCESSION NR: AR5008964 S/0137/65/000/001/D011/D012
621,771,001 30

SOURCE: Ref. Zh. Metallurgiya, nos. 1960

14-00000-65

ACCESSION NR: A86009964

PAN'KIN, V.A., inzh.

Concerning the two suggestions made by the engineer.
Shakht.stroi. 9 no.11:30 N '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organi-
zatsii i mekhanizatsii shakhtnogo stroitel'stva.

PAN'KIN, V.A., inzh.; SHPARBER, P.A., inzh.

Freezing of rock in depth during shaft sinking at the
Zaporozh'ye Iron Ore Combine No. 1. Shakht. stroi. 9 no.9:
17-22 S '65. (MIRA 18·9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnogo stroitel'stva.

PAN'KIN, V.A., inzh.

Mine shaft sinking with freezing at great depths in the
Polish People's Republic. Shakht. stroi. 9 no. 12:24-28
D '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnogo stroitel'stva.

KIRPA, I.G.; KOLESNIKOV, N.P.; PANKIN, V.A.; SHISHKIN, Yu.A.

Investigating power parameters in the rolling of bimetal aluminum -
copper - aluminum sheets. TSvet. met. 36 no.3:60-65 Mr '63.
(MIRA 16:5)

(Laminated metals) (Rolling mills)

SHPARBER, P.A., inzh.; PAN'KIN, V.A., inzh.

Height of the entry and deformation of the frozen rock cylinder
during shaft sinking. Trudy VNIICMShSa no.15:150-163 '64.
(MIRA 18:2)

BYSTRITSKIY, D.N., kand.tekhn.nauk; PAN'KIN, V.V., inzh.

Classification and methods for designing systems for stopping the
engines of diesel electric power plants. Nauch. trudy VIESKH
11:141-177 '62. (MIRA 16:3)
(Electricity in agriculture) (Diesel electric power plants)

ANDRIANOV, V.N.; BYSTRITSKIY, D.N.; KRAUSP, V.R.; PAN'KIN, V.V.;
PECHKOVSKIY, G.A.; ZAK, I.G.; LEVIN, M.I.

Automation of small mobile electric power plants used as
temporary and reserve power supply sources in agriculture.
Sbor. nauch.-tekh. inform. po elek. sel'khoz. no.6:34-39 '59.
(MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii
sel'skogo khozyaystva (for Pechkovskiy). 2. Saratovskiy
mekhanicheskiy zavod (for Zak). 3. Tsentral'nyy dezinfekt-
sionnyy nauchno-issledovatel'skiy institut (for Levin).
(Electric power plants) (Electricity in agriculture)

S/196/61/000/010/021/037
E194/E155

AUTHOR: Pan'kin, V.V.

TITLE: Simplified calculation of plunger-type a.c. electromagnets

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.10, 1961, 55, abstract IOI 353. (Vestn. elektroprom-sti, no.6, 1961, 63-66)

TEXT: Values are calculated for the coil current and tractive force developed by an electromagnet as functions of the armature travel and main design parameters (core dimensions, number of turns and ohmic resistance of coils). It is assumed that the magnetic system is not saturated, and no allowance is made for resistance of the steel or the influence of the shading coil. The equivalent circuit of the magnetic system allows only for the reluctance (or permeance) of the air gaps and for the magnetising force of the coil. To determine the reluctance of the air gaps, calculations are first made of the dimensions and then of the permeance of the corresponding sections. The air gaps for which the permeances are determined are sub-divided into a number of volumes of simple

Card 1/2

ANDRIANOV, V.N., doktor tekhn. nauk; BYSTRITSKIY, D.N., kand. tekhn. nauk;
PAN'KIN, V.V., inzh.

Automatic control networks at mobile diesel electric power
plants with contactless elements. Mekh. i elek. sots. sel'khoz.
21 no.3:38-43 '63. (MIRA 16:8)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni Timiryazeva
(for Andrianov). 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut elektrifikatsii sel'skogo khozyaystva (for Bystritskiy,
Pan'kin).

(Diesel electric power plants)
(Electricity in agriculture)

ANDRIANOV, V.N., doktor tekhn.nauk; BYSTRITSKIY, D.N., kand.tekhn.
nauk; PAN'KIN, V.N., inzh.

Automation of mobile diesel electric power stations. Mekh.1
elek.sots.sel'khoz. 17 no.5:33 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifi-
katsii sel'skogo khozyaystva.
(Electric power plants)

EBIN, L.Ye., doktor tekhn. nauk, prof.; BYSTRITSKIY, D.N., kand. tekhn. nauk; LUKOVNIKOV, A.V.; PAN'KIN, V.V., inzh.; DUDINA, V.Ye.

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