KORYAKINA, Valentina Fedorovna; KONOVALOV, I.N., otv. red.;
VIKHREV, S.D., red. izd-va; SMIRNOVA, A.V., tekhn.red.

[Characteristics of the growth and development of peren-
nial forage plants] Osobennosti rosta i razvitiia mno-
goletnikh kormovykh rastenii. Moskva, Izd-vo "Nauka,"
1964. 286 p.   (MIRA 17:3)

KORYAKINA, V.F.

Trace elements as an effective means of the improvement of the grass stands of natural meadows. Bot. zhur. 50 no.1:70-81 Ja '65.   (MIRA 18:3)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

KORYAKINA, V.F., kand. biolog. nauk

Microelements for natural meadows. Zemledelie 27 no.2:58-61 F '65.
(MIRA 18:4)

1. Botanicheskiy institut imeni Komarova.

S/070/62/007/006/010/020
E132/E435

AUTHORS: Geguzin, Ya.Ye., Koryakina, V.V., Kharitonova, L.S.

TITLE: Studies of processes on the surfaces of single crystals
IV. High temperature processes on the surfaces of
arbitrary sections of ionic crystals

PERIODICAL: Kristallografiya, v.7, no.6, 1962, 903-909

TEXT: Planes not naturally occurring were cut, by sawing followed
by polishing, on single crystals of NaCl, KCl and LiF.   They were
cut corresponding to the planes (120), (130), (140), (150) and
(180).   Initially the planes were flat to the limits of the
resolving power of the microinterferometric method.   The specimens
then underwent thermal treatment during which their surfaces were
examined by the microinterferometer at intervals and the structure
of the relief was determined.   In the first series, specimens of
NaCl were annealed in quartz ampules.   At 780 and 750°C some loss
of weight was observed.   Asymmetric steps appeared having one
large flat side and one steeper stepped escarpment.   These were
called the simple and complex slopes respectively.   With time the
character of the steps changed non-monotonically being sometimes

Card 1/2

ANDREYEVA, V.N.; MIKHAILOVA, V.P.; ROZEN, M.A.; SEMENOVA, V.I.

Changes in the cell resistance of isolated frog tissues under the direct influence of B_{12}, dimedrol and dibazol. Tsitologiia 6 no.6:747-750 N-D '64.   (MIRA 18:8)

1. Gruppa radiofarmakologii laboratorii radiatsionnoy tsitologii Instituta tsitologii AN SSSR, Leningrad.

RUSOV, M.T., doktor khim.nauk; SIDOROV, I.P., kand.tekhn.nauk; STREL'TSOV, O.A., kand.khim.nauk; KURKCHI, G.A.; TRETYAK, V.G.; KOHYAKINA, Ye.V.

Macrokinetics of the catalytic synthesis of ammonia at high pressures in a recirculation system. Trudy GIAP no.7:101-120 '57.

(MIRA 12:9)

(Ammonia) (Catalysis)

KORYAKINA, Z.G.; MOROZOV, M.I.

Conference on a facial and paleogeographic study of Mesocenozoic
sediments in Central Asia. Izv. AN Uz. SSR. Ser. geol. no.3:87-88
'57.   (MIRA 11:9)
(Soviet Central Asia--Geology, Stratigraphic) (Paleogeography)

KORYAKOV, A. N
25(1)

PHASE I BOOK EXPLOITATION   SOV/1752

Plotnikov, Ivan Mikhaylovich, Valer'yan Nikitich Razumov,
    Valentina Ivanovna Oborina, Murshida Salimovna Razumova, Nikolay
    Vladimirovich Kuznetsov, and Aleksey Nikiforovich Koryakov

Potochnoye izgotovleniye obolochkovykh form (Assembly Line Manu-
    facture of Shell Molds) Moscow, Mashgiz, 1957. 42 p. (Series:
    Obmen tekhnicheskim opytom) 4,000 copies printed.

Reviewer: L.M. Volpyanskiy, Engineer; Tech. Ed.: G.A. Sarafannikova;
    Executive Ed. (Ural-Siberian Division, Mashgiz): M.A. Bezukladnikov,
    Engineer.

PURPOSE: This book is intended for engineering workers in foundry
    shops and design establishments concerned with the development
    of industrial molding methods.

COVERAGE: This book reports on experience gained by the mixed
    crews of the Uralkhimmashzavod (Ural Chemical Machinery Plant)
    and the Sverdlovsk branch of the NIIKhIMMASH (Scientific

Card 1/3

PLOTNIKOV, I.M., inzh.; RAZUMOV, V.N., kand.tekhn.nauk; OBORINA, V.I., inzh.; RAZUMOVA, M.S., inzh.; KORYAKOV, A.N., inzh.; KUZNETSOV, N.V., inzh.

Making shell molds for frames and plates of filter presses.
Mashinostroitel' no.10:17-19 O '57.   (MIRA 10:11)
        (Shell molding (Founding))   (Filter presses)

ORESHKIN, Vladimir Dmitriyevich;KORYAKOV, A.N., inzh., retsenzent;
DUGINA, N.A., tekhn. red.

[Principles of founding] Osnovy liteinogo proizvodstva. Izd.2.
Moskva, Mashgiz, 1961.   326 p.   (MIRA 15:2)
. (Founding)

KORYAKOV, B.F.

USSR/Biology - Zoology

Card 1/1 : Pub. 86 - 26/34

Authors : Koryakov, B. F.

Title : About the Pelim River beavers

Periodical : Priroda 1, 115-116, Jan 1954

Abstract : The discovery of a large beaver colony on the left bank of the Pelim River on the north-eastern part of the Sverdlovsk region in Ural is announced.

Institution : The Ural Regional Laboratory of the All-Union Scientific Research Institute of the Hunting Industry

Submitted : .....

KORYAKOV, B.F.

Beaver riddles. IUn. nat. no.2:5 F '58.   (MIRA 11:1)

1. Direktor Sverdlovskogo instituta okhotnichego khozyaystva.
                              (Beavers)

KORYAKOV, F. M.

Bee Culture - Equipment and Supplies

Strong colonies in horizontal hives Pchelovodstovo 29, no. 4, April 1952

9. Monthly List of Russian Accessions, Library of Congress, __August__ 1953, Uncl.

KORYAKOV, F. N.

Bee Culture-Queen Rearing

"Feeding queens in the cell". Pchelovodstvo, 29. No, 5., 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

1. KORYAKOV, F.M.

2. USSR (600)

4. Bee Culture - Equipmend and Supplies

7. Tin can feeding trough. Pchelovodstvo 29. no. 11. 1952.

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

KURMAN, I.M.; MEL'NITSKIY, V.V.; ZAYTSEV, L.S.; MEL'NITSKAYA, Ye.F.; ORLOVA, Ye.V.; Prinimali uchastiye: OKNINA, V.A.; KORYAKOV, G.Ya.; DARAGAN, V.Kh., red.; SHUGIN, A.A., red.; AFANAS'YEVA, Yu.N., red. izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

[Prospecting for boron] Poiski i razvedka bornogo syr'ia. Pod obshchei red. V.Kh.Daragana, I.M.Kurmana i A.A.Shugina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1960. 102 p.   (MIRA 14:7).

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-khimicheskogo syr'ya Gosudarstvennogo komiteta Soveta Ministrov SSSR (for Mel'nitskaya, Okina, Koryakov). 3. Vsesoyuznyy nauchno-issledova-tel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany nedr (for Orlova).   (Boron)

KORYAKOV, I., polkovnik

Battalion tactical exercises. Voen. vest. 39 no. 7:38-42 Jl '60.
(MIRA 14:2)

(Tactics--Problems, exercises, etc.)

KORYAKOV, I. F.

PROCESSES AND PROPERTIES INDEX

Manufacture of alumina cement by the sintering method. M. P. Cherkukov and I. F. Koryakov. *Trudy Ural. Ind. Inst.* (or. S. M. Kirov), No. 13, pp. 77-161 (1939).—Experiments on the preparation of alumina cements were undertaken to utilise the bauxite deposits in the Urals. Red and yellow varieties of bauxite were used. Red bauxite contained 2.10 SiO_2, 57.40 Al_2O_3, and 20.38% Fe_2O_3. Yellow bauxite contained 7.68 SiO_2, 58.98 Al_2O_3, and 14.00% Fe_2O_3. Composition of the charges was based on the assumption that the following basic compounds would be formed in the clinker: (1) monocalcium aluminate (CA), dicalcium silicate (C_2S), and monocalcium ferrite (CF); (2) monocalcium aluminate, dicalcium silicate, and dicalcium ferrite (C_2F); and (3) monocalcium aluminate, dicalcium silicate, and tetracalcium alumoferrite (brownmillerite, C_4AF). Degree of saturation with lime was 0.90, 0.95, and 1.00. Charges were sintered at 1160°, 1200°, 1240°, and 1280°. Fusion points were also determined, using cones and limiting the temperature rise to 3° to 5°/min. The results show that the greatest interval between temperatures of sintering and fusion occurred with charges low in lime, and the smallest interval, with charges rich in lime. Charges made from bauxite of lower Fe content had the smallest temperature interval. In tests for mechanical strength, best results were shown by cements rich in lime. The optimum charge should contain about 20 to 23% Fe_2O_3 (in the bauxite), up to 5% SiO_2, and lime calculated from the equation $CaO = 1.87 SiO_2 + 0.55 (Al_2O_3 + Fe_2O_3)$.

B.Z.K.

KORYAKOV, I.F.; P'YACHEV, V.A.

Special features of the microstructure of clinkers obtained
by burning them in a layer. Trudy Ural. politekh. inst.
no.118:5-13 '62.   (MIRA 16:6)

(Cement clinkers)

KORYAKOV, I. F.

Dissertation: "The Possible Intensification of the Burning of Clinkers of Silicate Cement by the Black Briquet Method." Cand Tech Sci, Ural Polytechnic Inst, Sverdlovsk, 1953,. Referativnyy Zhurnal--Khimiya, Moscow, No 7, Apr 54.

SO: SUM 284, 26 Nov 1954

CHEBUKOV, M.F., kand.tekhn.nauk; KORYAKOV, I.F., kand.tekhn.nauk

Obtaining agloporite from raw material from the Urals and
making lightweight concrete of it. Sbor.trud.VNIINSM no.6:
38-55 '62.   (MIRA 15:12)

1. Ural'skiy politekhnicheskiy institut.
        (Ash (Technology))   (Lightweight concrete)

KORYAKOV, I.F.

Optimum size and method of introducing fuel in the burning of portland cement clinkers in a layer on a grate. Trudy Ural. politekh. inst. no.118:14-23 '62. (MIRA 16:6)

(Cement clinkers) (Fuel)

KORYAKOV, L.V. (Krivoy Rog,27,2-ya Prokatnaya,d.59,kv.60)

Observations of late cancer metastasis of the mammary gland.
Klin.khir. no.5:72-73 My '62.   (MIRA 16:4)

1. Gorodskoy onkologicheskiy dispanser Krivogo Roga.
        (MAMMARY GLANDS—CANCER)   (METASTASIS)

KORYAKOV, L.V.

Working capacity following a radical treatment of breast cancer.
Vop. onk. 11 no.8:55-57 '65.   (MIRA 18:11)

1. Kafedra gospital'noy khirurgii No.2 (zav. - doktor med.nauk
prof. D.P.Chukhriyenko) Dnepropetrovskogo meditsinskogo
instituta.

KORYAKOV, I.V., nauchnyy aspirant

Working capacity following treatment for breast cancer; preliminary
report. Klin. khir. no.1:24-26 '65.

(MIRA 18:8)

1. Kiyevskiy nauchno-issledovatel'skiy rentgeno-radiologicheskiy i
onkologicheskiy institut; nauchnyy rukovoditel' - zasluzhennyy
deyatel' nauki UkrSSR, prof. I.T.Shevchenko.

KORYAKOV, O. (Sverdlovsk)

Ural pathfinder; Ivan Tiufiakov's work. Sov. foto. 23 no.5:
18-19 My '63.   (MIRA 16:10)

SUB. CODE: 07 / SUBM DATE: 19Nov65 / ORIG REF: 002

Card 1/1   vmb   UDC: 547.26.118

ACCESSION NR: AR4043411   AT(d)/EED-2/EWP(1)   Po-4/Pq-4/Pg-4/Pk-4   IP(o)/RAEM(d)   BI/GG
S/0044/64/000/007/V042/V042

SOURCE: Ref. zh. Matematika, Abs. 7V254

AUTHOR: Koryakov, V.G.

TITLE: Application of electronic computers to programmed teaching

CITED SOURCE: Sb. Programmir. obucheniye i kibernet. obuchayushchiye mashiny*. M., Sov. radio, 1963, 139-159

TOPIC TAGS: teaching machine, programmed teaching, programmed learning, language training, technical training

TRANSLATION: The author discusses certain results of experimental application of digital computers to programmed learning and the principles of constructing teaching systems. He presents three models of the teaching process: parallel, sequential, and branching. A block diagram is given for a training system using an electronic computer, and use of the "Ural-1" machine with ST-35 instruments as inputs is discussed for teaching translation from German to Russian and

Card 1/2

L 21790-65
ACCESSION NR: AR4043411   C

... of radio receivers. Use of multipurpose computers UMShN /Universalnaja ...... Shirokogo Naznacheniya/) with automatic film viewers as output devices ... of radiotechnical circuits is described. Twelve illustrations. B. ...

SUB CODE: DP   ENCL: 00

Card 2/2

L 11219-67 EWT(1)/FSS-2   TGH
ACC NRT AP6029348   (A)   SOURCE CODE: UR/0256/66/000/006/0045/0048

AUTHOR: Koryakov, V. G. (Engineer; Colonel; Candidate of technical sciences)

ORG: None

TITLE: Reprocessing of radar data

SOURCE: Vestnik protivovozdushnoy oborony, no. 6, 1966, 45-48

TOPIC TAGS: radar signal processing, radar signal analysis, radar tracking

ABSTRACT: The elimination of errors from processed information by a renewed radar data reprocessing means is discussed. A method of extrapolation applied to locate the true target echo is explained by using an example shown in a diagram. On the basis of three previously obtained echo marks and four new scattered ones, the true position is determined as lying on the prolongation of a mean trajectory line close to one of scattered marks. The mean trajectory is traced on the basis of three previously located positions and by assuming the uniform rectilinear motion of the target. For evasive maneuvers, a more complicated mathematical approach is needed for the determination of extrapolation algorithms as functions of target motions. The extrapolation of coordinates is explained and the equations for determining algorithms are derived by using velocity vectors. Computers are used for calculation. The possibility of new errors caused by the extrapolation, especially in cases of complex target movements, is examined including the method

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L 11219-67

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ACC NR: AP6029348

of smoothing. The true solutions are obtained by using a strobe square as shown in a diagram. The true location is determined by positions of marks in relation to the strobe area. The selection of strobe area dimensions is discussed by applying a formula established for a strobe of a rectangular cross-section. The capture of true echos in the cross-section area and methods for avoiding the wrong ones is also examined and diagrammatically illustrated. Orig. art. has: 3 diagrams.

SUB CODE: 17/ SUBM DATE: None

Card 2/2   jb

ACC NR: AP7007711   SOURCE CODE: UR/0139/67/000/001/0069/0073

AUTHOR: Shul'gin, B. V.; Gavrilov, F. F.; Dvinyaninov, B. L.;
Koryakov, V. I.; Chirkov, A. K.

ORG: Ural Polytechnic Institute imeni S. M. Kirov (Ural'skiy politekh-
nicheskiy institut)

TITLE: Paramagnetic resonance of irradiated lithium hydride luminescent
crystals

TOPIC TAGS: luminescent crystal, activated crystal, absorption line,
electron paramagnetic resonance, lithium compound, hydride, temperature
dependence, color center

ABSTRACT: The dependence of the intensity and width of the absorption
line of the EPR on temperature was investigated in irradiated
lithium hydride luminescent crystals.   The irradiation was done at room
temperature with the unfiltered light of an SVD-120 mercury lamp and
betatron electrons with energies of 8 to 10 Mev.   The temperature
dependence of the intensity and width of the EPR absorption line of LiH
crystals with blue luminescence undergoes a sharp change in the
temperature range from 90 to 120°C.   The first maximum on the thermo-
luminescence curve is also observed in this range.   This coincidence

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ACC NR: AP7007711

occurs because the centers of the electron capture in LiH responsible
for the first thermoluminescence peak are bound with the colloidal
lithium. The release of electrons from the capture level corresponding
to the first thermoluminescence peak causes the elimination of these
absorption centers. As a result, the intensity of the paramagnetic
absorption line decreases and the width increases due to the absorption
by the color cneters. The authors thank M. Lemberberg who participated
in the investigation of the optical absorption spectra of LiH. Orig. art.
has: 3 figures.   [JA] [WA-95]

SUB CODE: 20/ SUBM DATE: 03Aug65/ OTH REF: 003

Card   2/2

KLOCHKOV, B.V., inzh.; KORYAKOV, V.P., inzh.

    Making reinforced concrete balustrades. Avt.dor. 22   no.8:14
    Ag '59.   (MIRA 12:11)
        (Concrete construction--Formwork)

KLOCHKOV, B., inzh.; KORYAKOV, V., inzh.

Introduction of new techniques and the role of research and
norm-setting centers. Avt.dor. 23 no.3:3 of cover Mr 60.
(MIRA 13:6)

(Road construction)

KLOCHKOV, B.,inzh.; KORYAKOV, V.,inzh.

An honorary title imposes great responsibility. Avt. dor. 23 no.5:4-5
My '60.
(MIRA 13:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut svyazi.
(Moscow--Road construction workers)

DUDCHENKO, N.P., inzh.; KLOCHKOV, B.V., inzh.; KORYAKOV, V.P., inzh.

Construction of temporary footings out of reinforced concrete
pipes or shells. Transp. stroi. 12 no.8:20-22 Ag '62.
(MIRA 15:9)

(Bridges—Foundations and piers)
(Precast concrete construction)

KLOCHKOV, B.V., inzh.; KORYAKOV, V.P., inzh.; IVANOV, S.S., inzh.

The concrete reinforcement worker I.A. Vivchar and his brigade
of communist labor. Transp. stroi. 12 no.9:7-8 S '62. (MIRA 16:2)
(Reinforced concrete)

CA

II I

Utilization of oxygen by Baikal Cottoids. D. N. Taliev and E. A. Koryakov. _Doklady Akad. Nauk S.S.S.R._ 58, 1837–40(1947).—Studies were made in the interval 0–10° with 15 species of cottoid fish. Utilization of O in cu. cm./kg./hr. rises with increased temp. In typical cases at 1° utilization ranges from 7 (_Comephorus baicalensis_) to 40.4 (in _Cottocomephorus comephoroides_). The limiting concn. of O in ml./l. ranges from 0.1 (_Cottus kessleri_) to 3.6 (_Batrachocottus nikolskii_).
G. M. Kosolapoff

Baykal Limnological Station, AS USSR

KORYAKOV, YE. A.

270⁄0. KORYAKOV, YE. A. , TALIYEV, D. N. – Estestvennyy udel'nyy ves baykal'skikh Cottoidei.
        Doklady Akad. Nauk SSSR, Novaya seriya, t. LXVIII, No. 1, 1949, s. 169-72.--
        Bibliogr. 5 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

KORYAKOV, Ye. A.

New parasitic Copepoda of the Coregonicola species on Baikal
fish. Doklady Akad. nauk SSSR 79 no.3:365-368 11 July 1951.
(CLML 21:1)

1. Baykal Limnological Station of the Academy of Sciences USSR.
2. Presented 12 May 1951 by Academician Ye. N. Pavlovskiy.

GTRSPL   No. 45

Koryakov, E.A. (Baikal Limnological Station, U.S.S.R. Academy of Sciences), The male of
Salmincola cottidarum Messjatzeff, 907-8

Akademiya Nauk S.S.S.R.,   Doklady   Vol. 79 No. 2, 1951

KORYAKOV, Ye.A.

Distribution of parasite Salmincola cottidarum Messjatzeff on host cottocomephorus in the lake Baikal. Doklady Akad. nauk SSSR 87 no.2: 325-327 11 Nov 1952.   (CLML 23:5)

1. Presented by Academician D. V. Nalivkin 18 August 1952. 2. Baykal Limnological Station of the Academy of Sciences USSR.

Koryakov, E. A.

USSR/Medicine - Parasitology

Card 1/1   Pub. 22 - 44/45

Authors   : Koryakov, Ye. A.

Title   : New discoveries of Copepoda Parasitica on Baykal Lake fish

Periodical : Dok. AN SSSR 99/4, 657-659, Dec 1, 1954

Abstract   : Limnological report on the finding of Copepoda parasites on Baykal Lake fish is presented. Nine USSR references (1926-1952). Table; illustrations.

Institution : Academy of Sciences USSR, The Baykal Limnological Station

Presented by: Academician E. N. Pavlovskiy, September 9, 1954

Koryakov, Ye. A.

USSR/Biology - Zoology

Card 1/1   Pub. 22 - 49/51

Authors   : Koryakov, Ye. A.

Title   : Fertility and type of spawning population of Pisces, comephoridae

Periodical : Dok. AN SSSR 101/5, 965-967, Apr 11, 1955

Abstract   : Biological data are presented on the fertility and spawning
               population of Pisces, comephoridae fish. Ten Russian and USSR
               references (1876-1949). Tables.

Institution : Acad. of Sc., USSR, East-Siberian Branch, Baykal Limnological Station

Presented by: Academician Ye. N. Pavlovskiy, January 12, 1955

KORYAKOV, Ye.A.

Certain ecological adaptations in the reproduction of
Comephoridae. Dokl.AN SSSR 111 no.5:1111-1114 D '56.

(MLRA 10:2)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-
Sibirskogo filiala Akademii nauk SSSR. Predstavleno akademikom
Ye.N. Pavlovskim.
                (Comephoridae)

KORYAKOV, Ye.A.

First data on the flow of living organisms from Lake Baikal.
Izv.vost.fil.AN SSSR no.7:125-133 '57.   (MIRA 10:10)

1. Vostochno-Sibirskiy filial AN SSSR.
              (Baikal, Lake--Fresh-water biology)

KOZHOV, M.M., prof., doktor biolog.nauk; MISHARIN, K.I., dotsent, kand. biolog.nauk. Prinimali uchastiye: TOMILOV, A.A., kand.biolog.nauk; POPOV, P.F., kand.biolog.nauk; YEGOROV, A.G., kand.biolog.nauk; TUGARINA, P.Ya., kand.biolog.nauk; TYUMENTSEV, N.V., nauchnyy sotrudnik; ASKHAYEV, M.G., nauchnyy sotrudnik; NIKOLAYEVA, Ye.P., nauchnyy sotrudnik; KARTUSHIN, A.I., nauchnyy sotrudnik; STERLYAGOVA, M.A., nauchnyy sotrudnik; KORYAKOV, Ye.A.; SPELIT, K.K., inzh.; ARTYUNIN, I.M., inzh.; OKUNEV, P.M.; SHNIPER, R.I., rabotnik; SHAFIROVA, A.S., red.; SOROKINA, T.I., tekhn.red.

[Fishes and commercial fishing in Lake Baikal] Ryby i rybnoe khoziaistvo v basseine ozera Baikal. Irkutskoe, knizhnoe izd-vo, 1958. 745 p.   (MIRA 12:4)

1. Sotrudniki Irkutskogo gosuniversiteta (for Misharin, Tomilov, Popov, Yegorov, Tugarina). 2. Sotrudnik Baykal'skoy limnologicheskoy stantsii Akademii nauk SSSR (for Koryakov). 3. Baykalrybtrest (for Spelit, Artyunin). 4. Gosplan Buryat-Mongol'skoy ASSR (for Shniper).
                    (Baikal, Lake--Fisheries)

Koryakov, Ye A

AUTHOR: Lamakin, V.V.   12-90-3-13/16

TITLE: The Baykal Conference (Baykal'skoye soveshchaniye)

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958,
             Vol. 90, Nr 3, pp 300 - 301, (USSR)

ABSTRACT: A conference dealing with the investigation of Lake Baykal
             was convened at Ulan-Ude in October 1957 by the Baykal Section
             of the Buryat-Mongolian Branch of the Geograficheskoye ob-
             shchestvo SSSR (USSR Geographical Society). The conference
             was attended by workers from scientific and industrial insti-
             tutions of the Buryat-Mongolian ASSR, the Baykal'skaya lim-
             nologicheskaya stantsiya (Baykal Limnological Station) of the
             AS USSR, the Siberian branch of the Vsesoyuznyy nauchno-
             issledovatel'skiy institut rybnogo khozyaystva (All-Union
             Scientific Research Institute of Fishing Industry), the Ir-
             kutsk University, the Irkutskiy sel'skokhozyaystvennyy insti-
             tut (Irkutsk Institute of Agriculture) and by representatives
             of the KPSS Oblast' committee. The Conference heard the fol-
             lowing reports: V.V. Lamakin, on "Nature of Lake Baykal., Its
             Exploration, Utilization and Protection"; P.P. Khoroshikh, on
             Baykal caves; Professor M.M. Kozhov, on the biological produc-
Card 1/2   tivity of Lake Baykal; Ye.A. Koryakov, on Baykal "golomyanki"

KORYAKOV, Ye.A.

A neoendemic parasite of Lake Baikal in the Lena basin.   Trudy
sov.Ikht.kom.   no.9:168-173 '59.   (MIRA 13:5)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo
filiala AN SSSR.
        (Lena River--Copepoda) (Parasites--Gobies)

KORYAKOV, Ye.A.

Making use of vertical diurnal migrations of aquatic animals in
catching them with stationary gear. Trudy Gidrobiol. ob-va 9:344-350
'59.   (MIRA 12:9)

1.Baykal'skaya limnologicheskaya stantsiya Vostechno-sibirskogo
filiala AN SSSR.
                    (Plankton research)

KORYAKOV, Ye.A.

Distribution of some pelagic inhabitants of Lake Baikal
in the northern part of the Maloye More. Trudy Baik.limnol.
sta. 17:313-341 '59.   (MIRA 12:12)
        (Maloye More--Amphipoda)
              (Maloye More--Comephoridae)

KORYAKOV, Ye.A.

Data on the biomass carried by the waters of Lake Baikal into the
Angara River. Trudy Baik. limnol. sta. 18:351-379 '60.

(MIRA 14:1)

(Baikal, Lake--Plankton)   (Angara River--Plankton)

KORYAKOV, Ye.A.

Biology, stock and commercial significance of Baikal cod.
Trudy Lim. inst. 2 pt.3:3-75 '64.   (MIRA 17:12)

137-58-4-6368

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 5 (USSR)

AUTHOR: Koryakov-Savoyskiy, B. A.

TITLE: Results of Laboratory and Industrial Experiments in the
            Pulsating Jigging of Finely-ground Iron Ores and Pulps
            (Rezul'taty laboratornykh i promyshlennykh opytov otsadki
            tonkoizmel'chennykh zheleznykh rud i shlamov)

PERIODICAL: Sb. tr. N.-i. gornorudn. in-t. UkrSSR, 1957, Vol 1, pp 428-435

ABSTRACT: Experimental data for the delineation of an optimum process
            for dressing fines on the NIM-4 and NIM-5 pulsating jigs are set
            forth. Pulsation of finely-ground Fe ores and pulps of 0.15-0 mm
            size, containing not less than 70 percent 0.08-0 mm fraction, is
            realizable and practicable with all procedures (diaphragm,
            vibration-and-diaphragm, or vibration), and satisfactory indices,
            both quantitative and qualitative, are obtained. The vibration
            procedure for jigging fines offers the best prospects, as it permits
            employment of a bed of ferrosilicon of 3-2 mm size, and simplifies
            both the design and the operation of the pulsating jig. The NIM-4
            and NIM-5 jigs permit jigging of fines. The construction of the
Card 1/2   NIM-5 jig does not permit separate operation of each chamber

137-58-4-6368

Results of Laboratory and Industrial Experiments (cont.)

alone; this is a shortcoming that should be eliminated.

A. Sh.

1. Ores--Processes   2. Equipment--Characteristics

Card 2/2

SOV/68-58-9-4/21

AUTHORS: Koryakov-Savoyskiy, B.A., and Bublikov, A.V.

TITLE: A New Method of Intensification of the Flotation Process
(Novyy sposob intensifikatsii flotatsionnogo protsessa)

PERIODICAL: Koks i Khimiya, 1958, Nr 9, pp 13-17 (USSR)

ABSTRACT: A new method of flotation is described. The principle of
the method consists of aeration of pulp and mineralisation
of air bubbles in an airlifting tube and the separation of
mineralised bubbles in the form of foam in a field of
centrifugical forces. Theoretical and experimental
investigations of the processes in a U-shaped laboratory
airlift tube and a tangentially joined to it cylinder were
carried out in the Department of Beneficiation of Minerals
of the Dnepropetrovsk Mining Institute. It was estab-
lished that by feeding the airlift-tube with the pulp and
a flotation reagent an intensive dispersion of air in the
tube takes place due to the hydrodynamic action of turbu-
lent flow of the pulp. The pressure of air introduced
into the airlift promotes the dissolution of a considerable
proportion of air in the pulp in the lower part of the
airlift tube. Then, because of a considerable decrease in

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SOV/68-58-9-4/21
A New Method of Intensification of the Flotation Process

the static pressure along the height of the tube a
progressive separation of the dissolved air on solid
particles in the form of microbubbles takes place.   On
leaving the airlift the pulp represents a mixture consis-
ting of mineralised and air bubbles, water, rock particles
and non-flotated particles.   This mixture with a
considerable velocity is tangentially introduced into the
bottom part of a cylindrical vessel. The pulp appropriates
a rotational movement thus forming a centrifugical field,
promoting the separation of the mineralised foam in the
axial part of the vessel. The method was tested on an
industrial scale in a two stage airlift - centrifugical
plant, of a throughput of 35-40 m3/hr of pulp (7-10 t/hr
of solids). The diagram of the plant and some details of
the airlift tube and the centrifugical foam separator are
shown in Figs 1-3.   The results obtained are given in the
table together with the results obtained on an ordinary
flotation machine. The results obtained in respect of the
quality of concentrates were satisfactory and the
Card 2/3   throughput per unit volume of the machine was about ten

SOV/68-58-9-4/21

A New Method of Intensification of the Flotation Process

times higher than that of an ordinary flotation machine.
It is pointed out that a large airlift-centrifugical
installation is being built on the Dneprodzerzhinsk
Coking Works and that the method can also be used for
other minerals.
There are: 1 table, 3 figures.

ASSOCIATIONS: Dnepropetrovskiy gornyy institut (Dnepropetrovsk
Mining Institute) and Dneprodzerzhinskiy koksokhimicheskiy
zavod (Dneprodzerzhinsk Coking Works)

Card 3/3

KORYAKOV-SAVOYSKIY, B. A., Candidate Tech Sci (diss) -- "Investigation of the
airlift-centrifugal method of floating coal sludge". Dnepropetrovsk, 1959.
22 pp (Denpropetrovsk Order of Labor Red Banner Mining Inst im Artem), 150
copies (KL, No 25, 1959, 134)

LIVSHITS, G.L., inzh.; RAYVICH, I.D., inzh.; BARISHPOLETS, V.T., kand.tekhn. nauk; KORYAKOV-SAVOYSKIY, B.A., kand.tekhn.nauk

Increasing the number of flotation cells in the existing industrial areas of coal preparation plants. Ugol' Ukr. 5 no.5:19-21 My '61.
(MIRA 14:5)

1. Nikitovskaya tsentral'naya ugleobogatitel'naya fabrika.
(Flotation)   (Coal preparation plants)

BASALYGO, L.I.; KORYAKOVA, L.V. (Moskva)

Improving the wage and occupation classification for clothing industry workers. Shvein.prom. no.2:4-7 Mr-Ap '65.

(MIRA 18:6)

KORYAKOVA, O.F.

Sintering Nikopol' manganese ores and concentrates. Met. i gornorud.
prom. no.5:58-61 S-O '64.   (MIRA 18:7)

YANITSKIY, G.; RUBANOVICH, ., inzhener-mekhanik (Omsk);
    KORYAKOVTSEV, P.; YELISEYEV, G., inzhener (Ivanovo);
    LIKHOVIDOV, I., frezerovshchik (Bratsk)

Suggested, achieved, introduced. Izobr. i rats. no.1:18-19
Ja '62.   (MIRA 14:12)

1. Glavnyy inzhener Leningradskoy mebel'noy fabriki No.7(for
Koryakovtsev).
              (Technological innovations)

KORYAKOVTSEV, P.I.

Efficient utilization of foam polyuretan rubber for the manufacture
of upholstered furniture. Der.prom. 10 no.11:24 N '61.

(MIRA 14:10)

(Foam rubber)   (Furniture)

KoRYAKOVSKIY, A.F.

KORYAKOVSKIY, A.A.

Pneumatic method of pumping liquid fuel from railroad tank cars.
Rats. i izobr. predl. v stroi. no.3:59-61 '57.   (MIRA 11:1)
                    (Tank cars)   (Liquid fuel)

KORYAKOVSKIY, A.M., inzh.

Take into consideration conditions for operating machinery in northern regions of Russia. Mekh. stroi. 17 no.9:28 S '60.
                                                    (MIRA 13:9)
(Russia, Northern--Building machinery--Cold weather operation)

KORYAKOV, P.N.; MAL'KEVICH, B.A.; RASKIN, N.M.

The manuscript inheritance of Academician S.I. Vavilov. Trudy
Inst.ist.est.i tekh. 17:154-155 '57.   (MIRA 10:7)
                    (Vavilov, Sergei Ivanovich, 1891-1951)

PAVLOVSKIY, Ya. N., KOR'YAKOVA, Ya. S.

Botany-Pathology

Phytonematodology and the problem of the natural foci of parasitic diseases of plants caused by nematoda. Trudy Zool. inst. AN SSSR 9, no. 2, 1951

9. Monthly List of Russian Accessions, Library of Congress, _____August_____ 1952, Uncl.
                                                                                2

LUBYANETSKIY, S. (Professor [and Reviewer]). About the book "Expert opinion
on veterinary sanitation with fundamental technology for livestock products,
by GOREGLYAD, Kh. S., KORYASHNOV, V. P. and SHLIPAKOV, Ya. P. Veterinarno-
sanitarnaya ekspertiza s osnovami teknologii productov zhivothovodstva. M.,
Sel'khozgiz, 1960...

Veterinariya, vol. 39, no. 2, February 1962 pp. 85

KORYAUSHKIN, G.

        An honorable title has been conferred on the collective. Avt.dor.
25 no.1:11-12 Ja '62.   (MIRA 15:2)

        1. Instruktor otdela truda i zarobotnoy platy TSentral'nogo
komiteta profsoyuza.
          (Transportation, Automotive) (Highway transport workers)

KORYAUSHKIN, G.M., KOSHMANOV, V.N.

Worthy contribution of efficiency innovators. Avt.der.19 no.8:
32 Ag '56.   (MIRA 9:10)
        (Moscow--Roads--Maintenance and repair)

KORYAUSHKIN, G.M.; ZATYAGOV, M.P.

Conference on the conversion to the seven-hour work day.
Avt.dor. 23 no.2:29-30 F '60.   (MIRA 13:5)
(Hours of labor)

ACC   NR/m)/EPF(c)/EWG(v)/EPR/EWP(j)/T/EWP(t)/EWP(b)   Pc-4/Pe-5/Pr-4/

NR: AP5003530   SOURCE CODE: UR/0001/0048/0051

AUTHORS: Al'shits, I. Ya. (Candidate of technical sciences); Koryavin, A. M.
(Engineer)

Spreading of plastic coatings on large articles

Vestnik mashinostroyeniya, no. 1, 1965, 48-51

TOPIC TAGS: plastic coating, metal coating, metal to plastic bond, carrone,
resin, polyvinyl butyryl / FTP 1 magnetic thickness gage, Y 1 impact

ABSTRACT: Experimental apparatus was developed to investigate the
possibility of coating large articles and to collect data on the plasticity, con-
sistency, etc. of the coatings. The apparatus (see Fig. 1 of the Enclo-
sure) ...

... moving chambers, compressed air ... ... with
... plastic, and a control ... ... with walls
... ... , and low ... ...
... coatings were ... ...

NR: AP5003530

... ...-pressure polyethylene with ... carbon, and other plastics.

... ...-asive on a drill stand at ... r.p.m. ... Thickness was measured by a mag-
... ...ther thickness me... ... ...ut...el and caprone coatings
... ...Anticorrosion ... ...eners f r poly-
... ...ating was 0.2 mm. ... ...l, Ia. Al'sh..ts,
... ...vin, and engine... ... ...aven, using
... ...iz. art. has: ... ...

ACCESSION NR: AP5003530   ENCLOSURE: 01
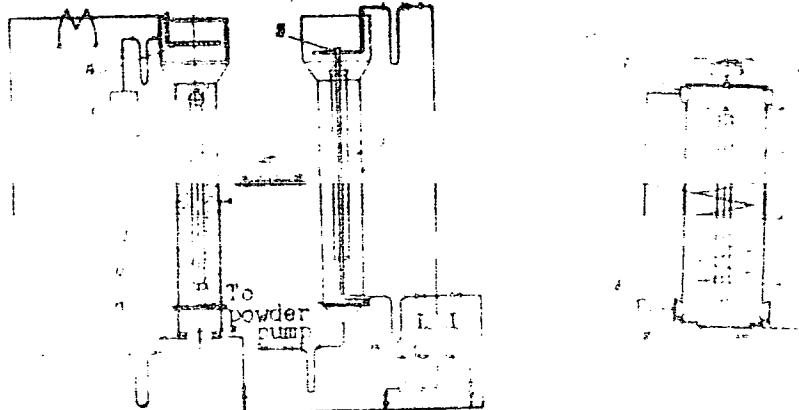
Fig. . Schematic of the experimental apparatus for spreading plastic
coatings on large particles by spray and jet coating methods

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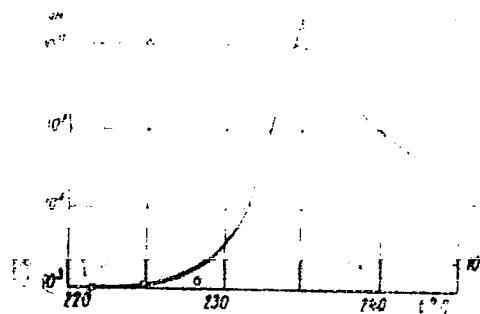
... of elasticity an ... ...
polyethylene coating on temperature

KORYAVIN, Leonid Alekseyevich; ALENT'YEVA, N., red.; DANILINA, A.,
        tekhn. red.

[Awakened Nigeria] Probudivshaiasia Nigeriia. Moskva, Gos-
politizdat, 1962. 60 p.   (MIRA 15:6)
        (Nigeria--Politics and government)
        (Nigeria--Economic conditions)

KORYAVKO, V.V.

Overall mechanization is the basis of our successes. Transp.
stroi. 15 no.1:6-9 Ja '65.   (MIRA 18:3)

1. Glavnyy inzh. tresta Sredazstroymekhanizatsiya.

Koryavov, P.N,

30-8-18/37

AUTHOR: None given

TITLE: On Archeographical Work - A Report on the General Assembly of the Archeographical Commission (Rabotyarkheografov - Oshcheye sobraniye Arkhuograficheskoy komissii)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1957, Vol. 27, Nr 8, pp. 88-88 (USSR)

ABSTRACT: The above mentioned assembly took place on the 11th and 12th June at Moscow. Great interest was displayed by the report given by V.V. Kafengauzen on the "Customs Books of the XVIII Century". Lively debates followed at the conclusion of the report delivered by P.N. Koryavov. (The subjects were: "Classification, Preservation, and Exploitation of the Documentary Material of the Archives of AN USSR"). The general assembly passed a motion suggesting that the director of the archives convenes an all-academic conference at the beginning of the year 1958. G.E. Kochin gave a report on "A Terminological Reference Work of Historic Monuments in Prehistoric Russia". I.M. Kurdyavtsev, the scientifical collaborator in the department for "Collections of Manuscripts" of the Lenin Library spoke about the archeographical expeditions (mostly to regions of Northern Russia) undertaken in 1953/56.

Card 1/2

KORYAVOV, P.N. (Leningrad)

"E.S. Fedorov's manuscripts in the Archives of the Academy of Sciences of the U.S.S.R." scientific description, texts. Reviewed by P.N. Koriavov. Vop. ist. est. i tekh. no.6:209 '59.   (MIRA 12:6)
       (Fedorov, Evgraf Stepanovich, 1853-1919)

KORYAVOV, P.N. (Leningrad)

"Manuscripts of chemists of the second half of the 18th century in
the Archives of the Academy of Sciences of the U.S.S.R." Reviewed by
P.N. Koriavov. Vop. ist. est. i tekh. no.6:209-210 '59.

(MIRA 12:6)

(Chemistry)

KORYAVOV, P. P. (Moscow)

"The Mixing of Compressible Viscous Jets."

report presented at the First All-Union Congress on Theoretical and Applied
Mechanics, Moscow, 27 Jan - 3 Feb 1960.

30737

S/208/61/001/005/005/007
A060/A126

26. 2135

AUTHOR: Koryavov, P. P. (Moscow)

TITLE: Numerical calculation of high-temperature laminar flows

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 1,
             no. 5, 1961, 856 - 868

TEXT: In the present work the problem of determining the temperature and
velocity profiles and the boundaries of the mixing zone under interaction of
flows of highly compressed gas with the ambient moving or stationary gas at a
large difference of temperatures and velocities between the two is considered for
Pradtl numbers varying with the temperature. This leads to the necessity of solv-
ing two related nonlinear differential equations for the velocity and the tempera-
ture T. In investigations by other authors the problem had been solved approxi-
mately by the theory of boundary layer. The range of temperature and velocity
ratios is greatly extended in the present paper. It is assumed that the density ρ,
the coefficient μ of viscosity, the coefficient of thermal conductivity λ, and the
heat capacity at constant pressure are known functions of temperature. Only the
problem of laminar flow mixing is considered here for semi-infinite flows of com-

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30737

S/208/61/001/005/005/007
Numerical calculation of high-temperature...   A060/A126

Moiseyev. There are 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The ref-
erence to the English-language publication reads as follows: S. J. Pai. Jet mix-
ing of a compressible fluid. J. Aeronaut. Sci., 1949, 16, no. 8, 463 - 469.

SUBMITTED: April 20, 1961

Card 3/3

KORYAVOV, P.P. (Moscow)

"Numerical analysis of laminar and turbulent mixing of two homogeneous gas flows".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - Feb 64.

ACCESSION NR: AP4037254   S/0208/64/004/003/0495/0511

AUTHOR: Koryavov, P. P. (Moscow)

TITLE: Numerical calculation of turbulent mixing of two homogeneous
gas streams

SOURCE: Zhurnal vy*chislitel'noy matematiki i matematicheskoy fiziki,
v. 4, no. 3, 1964, 495-511

TOPIC TAGS: turbulent mixing, laminar mixing, incompressible gas,
boundary layer theory, boundary layer, laminar flow

ABSTRACT: A study of the turbulent mixing of two homogeneous streams
of compressible fluids at Prandtl number ≠ 1 is presented in an
approximation of the boundary layer theory. Two streams with great
differences in temperature and velocity are considered. With the
introduction of new independent variables the equations of turbulent
mixing can be reduced to the form of equations of laminar mixing.
Thus, the algorithm used for the solution of equations of laminar
mixing can also be applied to the solution of equations of turbulent

Card   1/2

KORYAVOV, P.P. (Moskva)

Numerical calculation of the turbulent mixing of two homogeneous gas streams. Zhur. vych. mat. i mat. fiz. 4 no.3:495-511 My-Je '64. (MIRA 17:6)

SOV/20-128-2-10/59

10(2)
AUTHORS: Andriankin, E. I., Koryavov, V. P.

TITLE: A Shock Wave in a Plastic Medium of Variable Density

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 2,
             pp 257 - 260 (USSR)

ABSTRACT: This article deals with the problem of spherically symmetrical
             explosion in a medium whose density in the shock wave depends
             on the pressure amplitude. Behind the shock wave the medium
             is assumed to be plastic (thus, Prandtl's condition of plasti-
             city is complied with) and incompressible (density within
             the particles being maintained). The posing of the problem
             is therefore reduced to the assumption that $\sigma_{rf}=f(\varepsilon_f)$ on the
             front and $d\varrho/dt = 0$ behind it are known. Furthermore, Prandtl's
             condition of plasticity $\sigma_r-\sigma_\theta = k + m(\sigma_r+2\sigma_\theta)$ is assumed to
             be satisfied, k and m being assumed as known constants. (In a
             more general investigation, k and m are to be regarded as func-
             tions of ε). σ_r and $\sigma_\theta = \sigma_\varphi$ denote tensions in the radial
             direction and in the directions perpendicular to the latter; it

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A Shock Wave in a Plastic Medium of Variable Density   SOV/20-128-2-10/59

holds: $\xi = 1 - \varrho_0/\varrho$, where ϱ denotes density and t the time. Index f and index 0 denote the quantities on the front and in the undisturbed medium, respectively. The problem is most conveniently solved by Lagrangian variables. The equations of continuity and motion are defined in the following manner:

$$\frac{\partial r}{\partial r_0} = \frac{r_0^2}{r^2} \frac{\varrho_0}{\varrho(r_0)} \;;\; \frac{\partial}{\partial r_0}\left[r^\alpha\left(\frac{k}{3m} - p\right)\right] = \varrho_0 r_0^2 r^{\alpha-2} \frac{\partial u}{\partial t}$$

It holds: $\alpha = \sigma m/(2m+1)$; $p = -\sigma_r$; $u = \partial r/\partial t = \dot{r} = \lambda(t)/r^2$; r and r_0 denote the running and the initial coordinate of the particle. The laws of conservation on the wave front, the equality of pressures at the boundary of the expanding cavern $(r(a_0,t) = a(t))$, and the condition of steadiness of the running radius serve as boundary conditions of the afore-mentioned equations. Nondimensional quantities are then introduced. The relations

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A Shock Wave in a Plastic Medium of Variable Density   SOV/20-128-2-10/39

$$\bar{r}^3 = s^3 + 3 \int_s^x \mathcal{E}[y(s)] s^2 \, ds; \quad \bar{a}^3 = 1 + 3 \int_1^x \mathcal{E}[y(s)] s^2 \, ds;$$

$\bar{u} = \lambda(x)/\bar{r}^2; \lambda = \mathcal{E}[y(x)] x^2 \sqrt{y(x)}$ are obtained by integration of the above equations. $\mathcal{E}(y)$ is known from the condition $\mathcal{E}_f y(x) = f(\mathcal{E}_f)$ on the wave front. If $\mathcal{E}$ tends toward a certain limit $\mathcal{E}_n$, the function $f(\mathcal{E})$ must exhibit asymptotic behavior corresponding to σ_{rf} tending toward ∞. The relation

$$\bar{p} \bar{r}^\alpha = \kappa(\bar{r}^\alpha - x^\alpha) + \mathcal{E}[y(x)] x^\alpha y + \sqrt{y} \frac{d\lambda(x)}{dx} \int_s^x \bar{r}^{\alpha-4} s^2 \, ds - 2\lambda^2(x) \int_s^x \bar{r}^{\alpha-7} s^2 \, ds$$

is obtained by integration of the second equation of the above set. If the law $y(x)$ is known for the motion of the shock-wave front, it is possible to determine the distribution of pressure, density, and velocity throughout the entire range $1 \leqslant s \leqslant x$. If e_f on the front depends exponentially on pressure, an asymptotic solution results. This solution, however, is an approximation of experimental data only at small $\mathcal{E}$. A diagram illustrates the results of experimental calculations. Consideration of the

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A Shock Wave in a Plastic Medium of Variable Density   SOV/2o-128-2-1o/59

variable density on the wave front is essential already at a
distance of 6 or 7 radii of the charge. The front velocity is
exponentially dependent upon the distance. The authors thank
S. A. Khristianovich and A. S. Kompaneyets for   discussion;and
for their interest in the present investigation, as well as
A.N.Romashcv, V. N. Rodionev, and A. P. Sukhotin for the supply
of experimental data, and N. S. Razinr   for her contribution
to calculations. There are 2 figures and 2 Soviet references.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of
Chemical Physics of the Academy of Sciences, USSR)

PRESENTED: March 3o, 1959, by S. A. Khristianovich, Academician

SUBMITTED: March 25, 1959

Card 4/4

KORYAVOV, V.P.

Some representations of the zone and front of cranks. Dokl. AN
SSSR. 144 no.6:1266-1268 Je '62. (MIRA 15:6)

1. Institut khimicheskoy fiziki Akademii nauk SSSR.
(Strength of materials)

L 23212-65   EWT(1)/EWT(m)   JD/JW

ACCESSION NR: AP5002872   S/0207/64/000/005/0123/0126

AUTHOR: Koryavov, V. P. (Moscow)

TITLE: Approximate equation of state for solids

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1964, 123-126

TOPIC TAGS: adiabatic compression, compression shock wave, shock wave thermodynamics, thermodynamic equation of state

ABSTRACT: The description of the state of a substance compressed in strong shock waves is considered. For a wide variety of solids it is found experimentally that the velocity of the shock wave D and the velocity of the material behind the front are related linearly; $D = D_s + su$. The constant s does not differ much from 1.5, and is close to the so-called Bridgeman velocity of sound c_B. With several additional assumptions, the complete thermodynamic description for the behavior of a substance with isotropic compression can be obtained. The energy and pressure are separated into a thermal and a so-called cold part (E_x, P_x), which is connected with deformations of the crystal lattice and is independent of temperature. The relation between the thermal parts is given by the Mie-Grüneisen equation $\frac{p - p_x}{E - E_x} = \gamma\sigma$,

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L 23912-65

ACCESSION NR: AP5002872

2

where the density σ is in units of the initial density ρ_0, the pressure p is in units of $\rho_0 D_0^2$, the energy E is in units of D_0^2. Neglecting the initial pressure and initial internal energy of the undisturbed material, the following system of equations is obtained;

$$\frac{p_x}{E_x} = \gamma\sigma,\ p_x' = \sigma^2\frac{dE_x}{d\sigma},\ p_{_H} = \frac{\sigma(\sigma-1)}{[1-(\gamma-1)\sigma]^2},\ E_{_H} = \frac{1}{2}\frac{\sigma-1}{\sigma},$$

where $p_{_H}$ and $E_{_H}$ are the pressure and energy at the shock wave front. The solution depends on the form of the Grüneisen coefficient γ. Solutions are indicated for γ = a constant equalling 1 or 2 and for γ - function of σ $\gamma = 2.4 - \sigma)/(5 - \sigma)$. The author thanks S. S. Grigoryan and Iu. P. Rayzer for helpful discussion of the article. Orig. art. has: 36 equations, 2 diagrams, and 1 table.

ASSOCIATION: none

SUBMITTED: 23Apr64   ENCL: 00   SUB CODE: ME, TD

NO REF SOV: 008   OTHER: 004

Card 2/2

KORYAYEVA A.I.

KHAPOV, V.S.; KORYAYEVA, A.I.; TBNNOV, Yu.A.

Improving the quality of stuffing box packings. Avt. i trakt. prom.
no.12:34-36 D '57.   (MIRA 11:1)

1. Yaroslavskiy avtozavod.
                (Packing (Mechanical engineering))

· 12(2)

AUTHORS: Mironov, V.A., Koryayeva, A.I.

TITLE: The Tests of the Clutches of the YaAZ Automobiles
             (Ispytaniya stsepleniy avtomobiley YaAZ)

ABSTRACT: At the Yaroslavskiy motornyy zavod (Yaroslavl Engine
             Plant) series and experimental clutches of automobiles
             MAZ-200/205 and YaAZ-210 were tested. Further, two-
             disk experimental clutches for vehicles with 225-
             240 HP, having a torque of 89-90 kgm, were tested.
             The pressure disk and the flywheel were made of
             alloyed cast iron with the following chemical com-
             position: 2.3 - 2.5% Si; 0.12% S (maximum); 0.15 -
             0.4% Cu; 0.2% P (maximum); 0.6 - 0.8% Mn; 0.3 -
             0.45% Cr; 0.12% Ni (minimum); 0.03 - 0.08% Ti. The
             friction lining consisted of the asbestos compound
             7KF-31. The clutches were tested on an inertia test
             stand used also for brake testing, Figure 1, with an

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The Tests of the Clutches of the YaAZ Automobiles

inertia moment of the rotating masses of 13.72 $kgmsec^2$, corresponding to the inertia moment of the entire moving mass of an automobile under consideration of the influence of the rotating masses of the automobile wheels. The author presents in Table 1 a comparison of the friction factor reduction of the clutches for the MAZ-200 and the YaAZ-210 trucks after having performed a certain length of service and after a certain number of operations on the test stand. The author concludes that a considerable reduction of the clutch moment is characteristic for the clutches of the YaAZ automobiles depending upon the length of service (up to 30%), whereby the magnitude M_c (clutch moment) cannot be restored by adjustments. For reducing the factor of clutch reserve, a lining with a constant friction factor is recommended. The clutch moment changes considerably in dependence on the initial slip speeds, whereby its maximum value is observed at 100-500 rpm; the clutch moment is reduced with a further

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SOV/113-59-3-6/17

The Tests of the Clutches of the YaAZ Automobiles

rpm increase The clutch factor increases with rising
temperatures of the clutch linings between 60 and
140°. Beginning at 170° it decreases. Finally, it
was established that the friction coefficient of the
clutch facing on the YaAZ automobile increases from
0.2 to 0.342 when increasing the specific pressure
from 1.5 to 3 kg/cm² at a temperature of 100°. It
increases from 0.225 to 0.36 at a temperature of
150°. There are 1 diagram, 2 graphs and 2 tables.

ASSOCIATION: Yaroslavskiy motornyy zavod (Yaroslavl' Engine Plant)

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V.A. KORYAZKIN

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Lvov. Universitet

PHASE I BOOK EXPLOITATION   SOV/1700

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956.
t. 1: Atomnaya spektroskopiya. (Materials of the 10th All-Union
Conference on Spectroscopy, 1956. Vol 1: Atomic Spectroscopy)
(Trudy Instituta po L'vovskogo univ. 1958. 568 p. (Series: Its:
Khimicheskiy sbornik, vyp.4(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
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PURPOSE: This book is intended for scientists and researchers in
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